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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Model: COSMIC-ABM | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Model time units | days | | |  |  |  |
|  | System Dynamics solver | | | |  |  |  |
|  | Differention Equations Method | Euler | | |  |  |  |
|  | Algebraic Equations Method | Modified Newton | | |  |  |  |
|  | Mixed Equations Method | RK45+Newton | | |  |  |  |
|  | Absolute accuracy | 1.0E-5 | | |  |  |  |
|  | Time accuracy | 1.0E-5 | | |  |  |  |
|  | Relative accuracy | 1.0E-5 | | |  |  |  |
|  | Fixed time step | 0.001 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Java package name | cosmic\_abm | | |  |  |  |
|  | File Name | /Users/aalibrahim/Repositories/COSMIC-Expansion/COSMIC-ABM.alp | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Agent Type: Main | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Agent actions | | | |  |  |  |
|  | Startup code | //Select facility colors: Color[] facility\_colors = new Color[] {darkGray,gray,silver,lightGrey,dimGray}; //num\_of\_women = ceil((inputData.getCellNumericValue(2, 2, 2)+inputData.getCellNumericValue(2, 3, 2)+inputData.getCellNumericValue(2, 4, 2))\*PerWRA);  int index = 0; //Place the Facility Agents: //double yinc = facilityAreaNode.getHeight()/(facilities.size()+1); for( int i=0; i<facilities.size(); i++) {  Facility f = facilities.get(i);  //f.X = facilityAreaNode.getX() + facilityAreaNode.getWidth()/2;  //f.Y = facilityAreaNode.getY()+yinc\*(i+1);  //f.setLatLon(f.gisX,f.gisY);  f.facility\_color = randomColor();// facility\_colors[i];  readFacCharacteristics(f); //Read characteristics from Excel File:  manager.orderedFacilitiesList.add(f);    for(int x=0; x<f.sizeofCatchment; x++) {  Woman w = women.get(index);  w.closestFacility = f;  index++;  }   }   for( int i=0; i<facilities.size(); i++) {  }  /\*  //Place the Women Agents: int rows = facilities.size()\*4; double cols = Math.floor(women.size()/rows); double rowinc = womenAreaNode.getHeight()/(rows+2); double colinc = womenAreaNode.getWidth()/(cols+1);  //For assigning to catchment area double f0C = inputData.getCellNumericValue(2, 2, 2)\*PerWRA; | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 1 of | 265 |  |  |  |  |

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|  | Name | Value | | |  |  |  |
|  |  | double f1C = inputData.getCellNumericValue(2, 3, 2)\*PerWRA;      int index = 0; for( int i=0; i<rows+1; i++ ) {  for( int j=0; j<cols; j++ ) {  if(index<women.size()){  Woman w = women.get(index);  w.X = womenAreaNode.getX() + colinc\*(j+1);  w.Y = womenAreaNode.getY()+ rowinc\*(i+1);  w.setXY(w.X,w.Y);    //Assign to Facility:  if(index<f0C) w.closestFacility = facilities.get(0);  if(index>=f0C) w.closestFacility = facilities.get(1);  if(index>=(f0C+f1C)) w.closestFacility = facilities.get(2);    w.closestFacility.catchmentArea.add(w);  //w.travel\_Time = distanceTo(w.closestFacility)/20;  index++;  }}}   \*/  if(Delays == 0) PaymentEvents = PaymentSchedule;//remove the effects of delays  if(Delays == 0 & shorterPaymentPeriod>0) {  for( int i=0; i<PaymentEvents.length; i++ ) PaymentEvents[i] = PaymentEvents[i] - shorterPaymentPeriod;  } | | |  |  |  |
|  | Agent in flowcharts | | | |  |  |  |
|  | Use in flowcharts as | Agent | | |  |  |  |
|  | Dimensions and movement | | | |  |  |  |
|  | Speed | (10 : MPS) | | |  |  |  |
|  | Rotate animation towards movement | true | | |  |  |  |
|  | Rotate vertically as well (along Z-axis) | false | | |  |  |  |
|  | Space and network | | | |  |  |  |
|  | Enable steps | false | | |  |  |  |
|  | Advanced Java | | | |  |  |  |
|  | Generic | false | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  | Auto-create datasets | true | | |  |  |  |
|  | AOC\_DATASETS\_UPDATE\_TIME\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Limit the number of data samples | false | | |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Scale: scale | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Unit | meters | | |  |  |  |
|  | Scale | 10.0 | | |  |  |  |
|  | Type | Defined graphically | | |  |  |  |
|  | Length, pixels | 100.0 | | |  |  |  |
|  | Show at runtime | false | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  | y | -150.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: num\_of\_facilities | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Sets the number of facilities in the model. Must be less than or equal to the number of colors specified in the start-up code | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 12 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 2 | | |  |  |  |
|  | Parameter Editor Maximum Value | 5 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Sets the number of facilities in the model. Must be less than or equal to the number of colors specified in the start-up code | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: num\_of\_women | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Must be changed at initial number of agents at women agent in main | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0//ceil((inputData.getCellNumericValue(2, 2, 2)+inputData.getCellNumericValue(2, 3, 2)+inputData.getCellNumericValue(2, 4, 2))\*PerWRA) | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | num\_of\_women | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Must be changed at initial number of agents at women agent in main | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: M1a | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: modifier 1a for effect of own most recent last experience of facility delivery | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0.313 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | facility\_experience\_modifier | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | modifier 1a for effect of own most recent last experience of facility delivery | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: M1b | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: modifier 1b for effect of own most recent last experience of home delivery | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0.06 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | home\_delivery\_experience\_modifier | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | modifier 1b for effect of own most recent last experience of home delivery | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: M2 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: modifier 2 for influences of other women (based on the last experience of facility delivery and past experience of ANC of these women (but NOT their last/past experience of home delivery)) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0.313 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | other\_women\_experience\_modifier | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | modifier 2 for influences of other women (based on the last experience of facility delivery and past experience of ANC of these women (but NOT their last/past experience of home delivery)) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: M3 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: modifier 3 for effect of encouragement from TBAs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1-M1a - M1b - M2 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | TBA\_encouragement\_modifier | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | modifier 3 for effect of encouragement from TBAs | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: sim\_dur | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Simulation duration in days must be changed in the Simulation: Main as well | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1460 //4 years | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | number of sim days | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 20 | | |  |  |  |
|  | Parameter Editor Maximum Value | 200 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Simulation duration in days must be changed in the Simulation: Main as well | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: sim\_dur\_weeks | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: must be changed in the Simulation: Main as well | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | sim\_dur/7 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | number of sim days | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 20 | | |  |  |  |
|  | Parameter Editor Maximum Value | 200 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Description | must be changed in the Simulation: Main as well | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: sim\_dur\_months | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: must be changed in the Simulation: Main as well | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 65 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | number of sim days | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 20 | | |  |  |  |
|  | Parameter Editor Maximum Value | 200 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | must be changed in the Simulation: Main as well | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: sim\_dur\_6months | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: must be changed in the Simulation: Main as well | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | sim\_dur/30/6 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | number of sim days | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 20 | | |  |  |  |
|  | Parameter Editor Maximum Value | 200 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | must be changed in the Simulation: Main as well | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: ShareWomenExperience | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | true | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | shareWomenExp | | |  |  |  |
|  | Editor control | Check Button | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: catchment\_mult | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: catchment area multiplier to examine the effects of changes in the population size | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | catchment\_mult | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | catchment area multiplier to examine the effects of changes in the population size | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: PerWRA | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Percent of woman in reproductive age in a catchment area | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0.15 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 20 | | |  |  |  |
|  | Parameter Editor Maximum Value | 200 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 8 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Percent of woman in reproductive age in a catchment area | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: PerPregInitiation | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Percent of women pregnant at model initiation | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0.05 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | PerPregInitiation | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 20 | | |  |  |  |
|  | Parameter Editor Maximum Value | 200 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Percent of women pregnant at model initiation | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: DM\_months\_between\_visits | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Duration between visits (in months) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 3 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | DM\_months\_between\_visits | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Duration between visits (in months) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: facilitiesSeenPerVisit | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Number of facilities the the manager sees | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 3 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | facilitiesSeenPerVisit | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Number of facilities the the manager sees | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: pregancyDuration | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Days of pregnancy before delivery | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 270 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 20 | | |  |  |  |
|  | Parameter Editor Maximum Value | 200 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Days of pregnancy before delivery | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: P4PN | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Turn on or off the P4P scheme | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | P4PN | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Turn on or off the P4P scheme | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: P4P | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Turn on or off the P4P scheme | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | (P4PN == 0)? false:true | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | P4P | | |  |  |  |
|  | Editor control | Check Button | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Turn on or off the P4P scheme | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: produceOutputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | true | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Check Button | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: sim\_dur\_years | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: must be changed in the Simulation: Main as well | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 4 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | number of sim days | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 20 | | |  |  |  |
|  | Parameter Editor Maximum Value | 200 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | must be changed in the Simulation: Main as well | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: Delays | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Turn off Delays - set to 0 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | Delays | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Turn off Delays - set to 0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: monthlyPregRate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Proportion of women that become pregnant every month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0.0167 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | monthlyPregRate | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 20 | | |  |  |  |
|  | Parameter Editor Maximum Value | 200 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Proportion of women that become pregnant every month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: durationOfDMImpact | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Duration of impact of a DM visit. Example: 1 month means we see a 15 day pre-visit effect and 15 day post-visit effect. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1.5 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | durationOfDMImpact | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Duration of impact of a DM visit. Example: 1 month means we see a 15 day pre-visit effect and 15 day post-visit effect. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: capacityRelaxation | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: A calibrated parameter to relax the capacity contraints since stakeholders reported that they do not refuse women when the facility is occupied | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 2 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | A calibrated parameter to relax the capacity contraints since stakeholders reported that they do not refuse women when the facility is occupied | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: initialTBA | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: A calibrated parameter to relax the capacity contraints since stakeholders reported that they do not refuse women when the facility is occupied | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | A calibrated parameter to relax the capacity contraints since stakeholders reported that they do not refuse women when the facility is occupied | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: initialGifts | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: LessPoor\_prop\_add | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Multiplier to change the proportion of | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | LessPoor\_prop\_add | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Multiplier to change the proportion of | | |  |  |  |
|  |  | | | | | |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Parameter: P4P\_NoBonusHarm | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Turn on or off the harmful effects on facility performance when no bonus is earned after receiving a bonus | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | P4P\_Harm | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Turn on or off the harmful effects on facility performance when no bonus is earned after receiving a bonus | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: shorterPaymentPeriod | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: 0 means the model runs the current payment cycle 1 means the payment cycle is shortened by 1 month (i.e. paid 2 months after the performance cycle end vs. 3 months)  Note that Delays must equal to 0 for this function to work | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | shorterPaymentPeriod | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | 0 means the model runs the current payment cycle 1 means the payment cycle is shortened by 1 month (i.e. paid 2 months after the performance cycle end vs. 3 months)  Note that Delays must equal to 0 for this function to work | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: DmVisits0 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 15 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | DMVisits | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: drugSharingthreshold | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 50 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | DrugShareThresh | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: drugSharingAmt | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Turn on or off the P4P scheme | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 10 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | DrugShareRate | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Turn on or off the P4P scheme | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: DmVisits | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | (DmVisits0==1)? true:false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | DMVisitsbol | | |  |  |  |
|  | Editor control | Check Button | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: DrugSharing0 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | DrugSharingBin | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: womenChoiceMods | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | womenChoiceMods | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: DrugSharingB | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Default value | (DrugSharing0==1)? true:false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | DrugSharingB | | |  |  |  |
|  | Editor control | Check Button | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: occupancyEffects | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | occupancyEffects | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: FacilityATargets | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | {0.13, 0.11, 0.1, 0.35} | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: FacilityBTargets | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | {1, 0.86, 0.28, 0.71} | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: FacilityCTargets | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | {0.84, 0.88, 0.74, 0.60} | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: n\_social | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 4 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: occupancyCushion | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Proportion of women that become pregnant every month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Label | occupancyCushion | | |  |  |  |
|  | Editor control | Slider | | |  |  |  |
|  | Parameter Editor Minimum Value | 20 | | |  |  |  |
|  | Parameter Editor Maximum Value | 200 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Proportion of women that become pregnant every month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: bypass | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: bypass activation at 1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 //(bypass\_Bol)? 1:0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | BypassAllowed | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | bypass activation at 1 | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: allowExpansion | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Expansion of Capacity is allowed when set to 1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1//(allowExpansion\_bol)? 1:0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | ExpansionAllowed | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Expansion of Capacity is allowed when set to 1 | | |  |  |  |
|  |  | | | | | |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Parameter: b | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | b\_bypassparameter | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: update\_outputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Function body | | | |  |  |  |
|  | Body | if(currentMonth%6==0) {  Update\_6m();  current6Months++; }   if(currentMonth==1) {  Update\_6m();  current6Months++; } | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: Update\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Function body | | | |  |  |  |
|  | Body | double outreachsum=0; double ConsTimesum=0; double interpersonalsum=0; double DrugAvailsum=0; double kindnesssum = 0; double OOPsum = 0;  for( int i=0; i<facilities.size(); i++ ) { Facility f = facilities.get(i); outreachsum += f.outreach\_6m[f.sixMonthCounter]; | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  | ConsTimesum += f.consultation\_Time\_6m[f.sixMonthCounter]; interpersonalsum+= f.interpersonal\_Quality\_6m[f.sixMonthCounter]; DrugAvailsum += f.drugs\_avail\_6m[f.sixMonthCounter]; kindnesssum += f.Kindness\_6m[f.sixMonthCounter]; OOPsum += f.OOP\_6m[f.sixMonthCounter]; }   total\_Outreach\_6m[current6Months] = outreachsum/num\_of\_facilities; total\_ConsTime\_6m[current6Months] = ConsTimesum/num\_of\_facilities; total\_interpersonalQ\_6m[current6Months] = interpersonalsum/num\_of\_facilities; total\_DrugAvail\_6m[current6Months] = DrugAvailsum/num\_of\_facilities; total\_kindness\_6m[current6Months] = kindnesssum/num\_of\_facilities; total\_OOP\_6m[current6Months] = OOPsum/num\_of\_facilities; | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: readFacCharacteristics | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Function body | | | |  |  |  |
|  | Body | int i = f.getIndex()+2; //+2 to start from column 2 which is the first facility in Excel file  //double locMod = 0.1; double u1 = 0; double u2 = 0;  String[] maskedNames = {"A","B","C","E", "F"};   f.facility\_name = inputData.getCellStringValue(1, 3, i); // maskedNames[i-2];//  f.waiting\_Time\_BL = inputData.getCellNumericValue(1, 5, i);  f.consultation\_Time\_BL = inputData.getCellNumericValue(1, 6, i);  f.outreach = inputData.getCellNumericValue(1, 7, i);  f.OOP = inputData.getCellNumericValue(1, 8, i);  f.locMod = inputData.getCellNumericValue(1, 45, i)\*0.1;    f.interpersonal\_Quality\_BL = inputData.getCellNumericValue(1, 10, i);  f.anc\_quality = inputData.getCellNumericValue(1, 11, i);  f.drugs\_avail= inputData.getCellNumericValue(1, 12, i)\*100;   f.kindness = inputData.getCellNumericValue(1, 13, i);  f.capacity\_limit = (int) (inputData.getCellNumericValue(1, 14, i)+capacityRelaxation);  f.number\_staff = inputData.getCellNumericValue(1, 15, i);    f.facility\_gifts = initialGifts;  f.bl\_in\_facility\_birth\_rate = inputData.getCellNumericValue(1,37,i);//inputData.getCellNumericValue(1,35,i);  f.targetCalculation=inputData.getCellNumericValue(1,37,i);  f.sizeofCatchment = inputData.getCellNumericValue(2,i,4);  f.incentive\_TBA = initialTBA;    f.gisX = inputData.getCellNumericValue(1,41,i); | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 22 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | | | |  |  |
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|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  |  |  | f.gisY = inputData.getCellNumericValue(1,42,i);  f.setLatLon(f.gisX,f.gisY);    f.setBLvalues();    for( int x=0; x<f.sizeofCatchment; x++) {  add\_women();  Woman w = women.get(num\_of\_women);  w.closestFacility = f;  f.catchmentArea.add(w);  setWomenAttributes(w,f);  u1 = (uniform()-0.5)\*f.locMod;  u2 = (uniform()-0.5)\*f.locMod;  w.gisX = f.gisX+u1;  w.gisY = f.gisY+u2;  w.setLatLon(w.gisX,w.gisY);  w.travel\_Time = getDistance(w.gisX,w.gisY,f.gisX,f.gisY)\*500;  num\_of\_women++; } | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Arguments: | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | Type | |  |  |  |  |  |  |
|  | f | Facility | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Function: last6monParityCalc | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type | | double | | | |  |  |  |
|  | Return type: | | Returns value | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | double births = 0; for( int i=0; i<6; i++ ) births += total\_Births\_m[sim\_dur\_months-i];  double fac\_births = 0; for( int i=0; i<6; i++ ) fac\_births += total\_Facility\_Births\_m[sim\_dur\_months-i];  double bypassing\_births = 0; for( int i=0; i<6; i++ ) bypassing\_births += total\_Bypassing\_Births\_m[sim\_dur\_months-i];   return fac\_births/births; | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Function: setWomenAttributes | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type: | | Just action (returns nothing) | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | | | |  |  |
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|  | Name | | Value | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | int i = f.getIndex()+2; //+2 to start from column 2 which is the first facility in Excel file   w.anc\_over\_4 = randomTrue(inputData.getCellNumericValue(3, 3, i))? 1:0; w.muslim = randomTrue(inputData.getCellNumericValue(3, 5, i))? 1:0; w.new\_patient\_experience = randomTrue(inputData.getCellNumericValue(3, 30, i))? 1:-1;  //For SES, set to 0, then if randomly generated number is greater than p1, set to 1, if greater than p2 + p1, set to 2  double x = uniform()+LessPoor\_prop\_add;    w.SES = 0;  if(x>inputData.getCellNumericValue(3, 7, i)) w.SES = 1;  if(x>inputData.getCellNumericValue(3, 8, i)+inputData.getCellNumericValue(3, 7, i)) w.SES = 2;   //For education, set to 0, then if randomly generated number is greater than p1, set to 1, if greater than p2 + p1, set to 2  x = uniform();  double p1 = inputData.getCellNumericValue(3, 10, i);  double p2 = inputData.getCellNumericValue(3, 11, i);  double p3 = inputData.getCellNumericValue(3, 12, i);    w.education = 0;  if(x>p1) w.education = 1;  if(x>(p1+p2)) w.education = 2;  if(x>(p1+p2+p3)) w.education = 3;   //w.travel\_Time = inputData.getCellNumericValue(3, 14, i)\*uniform(0.5, 1.5); | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Arguments: | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | Type | |  |  |  |  |  |  |
|  | w | Woman | |  |  |  |  |  |  |
|  | f | Facility | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Table Function: PaymentIssuanceDates | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Out of range value | | 0.0 | | | |  |  |  |
|  | Out of range behavior | | Custom | | | |  |  |  |
|  | Interpolation | | Step | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Table data | | | | | |  |  |  |
|  | Load From Database | | false | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | public | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | |  |  |
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|  | Name | | | Value | | | | |  |  |  |
|  | System dynamics units | | | false | | | | |  |  |  |
|  | Table Data: | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Argument | | Value | | |  |  |  |  |  |  |
|  | 13.0 | | 1.0 | | |  |  |  |  |  |  |
|  | 18.0 | | 1.0 | | |  |  |  |  |  |  |
|  | 22.0 | | 1.0 | | |  |  |  |  |  |  |
|  | 27.0 | | 1.0 | | |  |  |  |  |  |  |
|  | 33.0 | | 1.0 | | |  |  |  |  |  |  |
|  | 34.0 | | 1.0 | | |  |  |  |  |  |  |
|  | 42.0 | | 1.0 | | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Custom Distribution: parityDistribution | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Description: Parity at initialization - values are set to expected values if 15% of the catchment area population are child-bearing aged women   Source: https://www.nbs.go.tz/nbs/takwimu/census2012/Fertility%20and%20Nuptiality%20Monograph.pdf. (NBS/URT (2015). Thematic report on Fertility and Nuptiality). | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | | Value | | | | |  |  |  |
|  | General | | | | | | | |  |  |  |
|  | Custom Distribution Integer values | | | true | | | | |  |  |  |
|  | Custom Distribution Definition Type | | | Ranges | | | | |  |  |  |
|  | Type | | | Continuous | | | | |  |  |  |
|  | Show at runtime | | | true | | | | |  |  |  |
|  | Show name | | | true | | | | |  |  |  |
|  | Data | | | | | | | |  |  |  |
|  | Load From Database | | | false | | | | |  |  |  |
|  | Description | | | | | | | |  |  |  |
|  | Description | | | Parity at initialization - values are set to expected values if 15% of the catchment area population are child-bearing aged women   Source: https://www.nbs.go.tz/nbs/takwimu/census2012/Fertility%20and%20Nuptiality%20Monograph.pdf. (NBS/URT (2015). Thematic report on Fertility and Nuptiality). | | | | |  |  |  |
|  |  | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | null | null | | | null |  |  |  |  |  |  |
|  | 0.0 | 0.0 | | | 450.0 |  |  |  |  |  |  |
|  | 1.0 | 1.0 | | | 247.0 |  |  |  |  |  |  |
|  | 2.0 | 2.0 | | | 236.0 |  |  |  |  |  |  |
|  | 3.0 | 3.0 | | | 204.0 |  |  |  |  |  |  |
|  | 4.0 | 4.0 | | | 178.0 |  |  |  |  |  |  |
|  | 5.0 | 5.0 | | | 139.0 |  |  |  |  |  |  |
|  | 6.0 | 6.0 | | | 118.0 |  |  |  |  |  |  |
|  | 7.0 | 7.0 | | | 88.0 |  |  |  |  |  |  |
|  | 8.0 | 8.0 | | | 70.0 |  |  |  |  |  |  |
|  | 9.0 | 9.0 | | | 51.0 |  |  |  |  |  |  |
|  | 10.0 | 10.0 | | | 92.0 |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Event: MonthlyEvent | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  | EVENT\_TIMEOUT\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Mode | Cyclic | | |  |  |  |
|  | Trigger type | Timeout | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Action | | | |  |  |  |
|  | Action | for( int i=0; i<facilities.size(); i++ ) {  Facility f = facilities.get(i);  f.monthlyUpdate(); }   //If P4P is activated, send details to manager if(P4P) {  manager.checkPerformance(); }   //Add a month to the month counter used by all agents currentMonth++;  //keep track of bonus periods if(arrayContains(PaymentEvents,currentMonth) & P4P) bonusPeriod++;   //Update charts and metrics for all agents update\_outputs(); | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Pregnancies | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Total number of preganancies (including those later lost to miscarriage or stillbirths prior to labour), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Total number of preganancies (including those later lost to miscarriage or stillbirths prior to labour), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Births | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: sum of births across all women since baseline (including births in referred to facilities/hospitals and including stillbirths during labour and neonatal deaths within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too) | | | | |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | sum of births across all women since baseline (including births in referred to facilities/hospitals and including stillbirths during labour and neonatal deaths within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Home\_Births | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Total number of deliveries that did not occur in health facilities (including stillbirths during labour and neonatal deaths within 'births' count for consistency across variables), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Total number of deliveries that did not occur in health facilities (including stillbirths during labour and neonatal deaths within 'births' count for consistency across variables), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Miscarriages | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Total number of lost pregnancies (due to miscarriage or stillbirths prior to labour), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Total number of lost pregnancies (due to miscarriage or stillbirths prior to labour), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Complications | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Total number of women with complications at the point of labour (e.g. needing CEmOC) that are appropriately referred by facility (dispensary), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Total number of women with complications at the point of labour (e.g. needing CEmOC) that are appropriately referred by facility (dispensary), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: percent\_Deliveries\_in\_Facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Percentage of all births that are facility deliveries (across all births and all facilities, including those referred on), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Percentage of all births that are facility deliveries (across all births and all facilities, including those referred on), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: currentMonth | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: comp\_Scale | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: used to show a uniform scale for vizualizations of facility-level negative outcomes | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 10 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | used to show a uniform scale for vizualizations of facility-level negative outcomes | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: home\_fac\_Scale | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: used to show a uniform scale for vizualizations of facility-level negative outcomes | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 10 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | used to show a uniform scale for vizualizations of facility-level negative outcomes | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Pregnancies\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Initial value | new double[sim\_dur\_months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Births\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: sum of births across all women since baseline (including births in referred to facilities/hospitals and including stillbirths during labour and neonatal deaths within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | sum of births across all women since baseline (including births in referred to facilities/hospitals and including stillbirths during labour and neonatal deaths within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Home\_Births\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Total number of deliveries that did not occur in health facilities every 6 months (including stillbirths during labour and neonatal deaths within 'births' count for consistency across variables), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Total number of deliveries that did not occur in health facilities every 6 months (including stillbirths during labour and neonatal deaths within 'births' count for consistency across variables), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Miscarriages\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Total number of lost pregnancies (due to miscarriage or stillbirths prior to labour), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Total number of lost pregnancies (due to miscarriage or stillbirths prior to labour), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Complications\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Total number of women with complications at the point of labour (e.g. needing CEmOC) that are appropriately referred by facility (dispensary), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Total number of women with complications at the point of labour (e.g. needing CEmOC) that are appropriately referred by facility (dispensary), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: percent\_in\_Facilities\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Percentage of all births that are facility deliveries (across all births and all facilities, including those referred on), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Initial value | new double[sim\_dur\_months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Percentage of all births that are facility deliveries (across all births and all facilities, including those referred on), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Facility\_Births\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Total number of deliveries occured in health facilities every 6 months (including stillbirths during labour and neonatal deaths within 'births' count for consistency across variables), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Total number of deliveries occured in health facilities every 6 months (including stillbirths during labour and neonatal deaths within 'births' count for consistency across variables), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_Facility\_Refused\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Total number of births that would have delivered at a facility but have been refused due to capacity limit | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Total number of births that would have delivered at a facility but have been refused due to capacity limit | | |  |  |  |
|  |  | | | | | |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: total\_Outreach\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_ConsTime\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Percentage of all births that are facility deliveries (across all births and all facilities, including those referred on), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Percentage of all births that are facility deliveries (across all births and all facilities, including those referred on), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_interpersonalQ\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Percentage of all births that are facility deliveries (across all births and all facilities, including those referred on), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Percentage of all births that are facility deliveries (across all births and all facilities, including those referred on), since baseline | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: total\_DrugAvail\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Percentage of all births that are facility deliveries (across all births and all facilities, including those referred on), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Percentage of all births that are facility deliveries (across all births and all facilities, including those referred on), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: current6Months | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_kindness\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description |  | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: total\_OOP\_6m | | | | |  |  |
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|  | Name | Value | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: PaymentSchedule | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Scheduled time of receiving the bonus payments | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | {9,15,21,27,33,39,45,51,57,63} | | |  |  |  |
|  | Type | int[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Scheduled time of receiving the bonus payments | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: bonusPeriod | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: PaymentEvents | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Actual time at which bonuses were paid (usually delayed compared to PaymentSchedule) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | {13,18,22,27,34,42,55,60,100} | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 35 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Type | int[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Actual time at which bonuses were paid (usually delayed compared to PaymentSchedule) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: bonusPaid | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: PerformanceCycle | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Scheduled time of receiving the bonus payments | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | {6,12,18,24,30,36,42,48,54,60} | | |  |  |  |
|  | Type | int[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Scheduled time of receiving the bonus payments | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: FacilityAOutputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[4] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 36 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: FacilityBOutputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[4] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: FacilityCOutputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[4] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: sumError | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  | | | | | |  |
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|  |  | Page 37 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: total\_Bypassing\_Births\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Total number of deliveries occured in health facilities every 6 months (including stillbirths during labour and neonatal deaths within 'births' count for consistency across variables), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[sim\_dur\_months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Total number of deliveries occured in health facilities every 6 months (including stillbirths during labour and neonatal deaths within 'births' count for consistency across variables), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Plot: plot | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | true | | |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Dataset Samples To Keep | 10000 | | |  |  |  |
|  | Scale | | | |  |  |  |
|  | Horizontal scale | Fixed | | |  |  |  |
|  | Chart Horizontal Scale: From | 0 | | |  |  |  |
|  | Chart Horizontal Scale: To | sim\_dur\_months | | |  |  |  |
|  | Vertical scale | Fixed | | |  |  |  |
|  | Chart Vertical Scale: From | 0 | | |  |  |  |
|  | Chart Vertical Scale: To | 100 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Labels horizontal position | DEFAULT | | |  |  |  |
|  | Labels vertical position | DEFAULT | | |  |  |  |
|  | Labels Text Color | darkGray | | |  |  |  |
|  | Chart Area Grid Color | darkGray | | |  |  |  |
|  | Draw line | true | | |  |  |  |
|  | Interpolation | Linear | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 500.0 | | |  |  |  |
|  | Width | 301.7359413202934 | | |  |  |  |
|  | y | 845.0 | | |  |  |  |
|  | Height | 110.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 221.73594132029342 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 20.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 70.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | Dataset Title | value | max(currentMonth-1,0) | | round(total\_Facility\_Births\_m[max(currentMonth-1,0)]/total\_Births\_m[max(currentMonth-1,0)]\*100) | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot1 | | | | | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | true | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 10000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: To | | | sim\_dur\_months | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 10 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | x | | | 260.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 135.09933774834437 | | | | | |  |  |  |  |  |  |
|  | y | | | 1060.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 100.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 10.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 115.09933774834437 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 20.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 40.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | Dataset Title | value | currentMonth | | total\_Facility\_Refused\_m[max(0,currentMonth-1)] | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot2 | | | | | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | true | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 10000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: To | | | sim\_dur\_months | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 1 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
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|  |  |  |  | Page 40 of | | | 265 | |  |  |  |  |  |  |  |

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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 449.139 | | | | | |  |  |  |  |  |  |
|  | Width | | | 135.09933774834437 | | | | | |  |  |  |  |  |  |
|  | y | | | 1060.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 100.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 10.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 115.09933774834437 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 20.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 40.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | Dataset Title | value | currentMonth | | (facilities.get(0).outreach\_m[currentMonth] + facilities.get(1).outreach\_m[currentMonth]+ facilities.get(2).outreach\_m[currentMonth])/3 | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot3 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | true | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 10000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: To | | | sim\_dur\_months | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 100 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 638.278 | | | | | |  |  |  |  |  |  |
|  | Width | | | 135.09933774834437 | | | | | |  |  |  |  |  |  |
|  | y | | | 1060.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 100.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 10.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 115.09933774834437 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 20.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 40.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | Dataset Title | value | currentMonth | | (facilities.get(0).drugs\_avail\_m[currentMonth] + facilities.get(1).drugs\_avail\_m[currentMonth]+ facilities.get(2).drugs\_avail\_m[currentMonth])/3 | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot4 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | true | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 10000 | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: To | | | sim\_dur\_months | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 20 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 830.397 | | | | | |  |  |  |  |  |  |
|  | Width | | | 135.09933774834437 | | | | | |  |  |  |  |  |  |
|  | y | | | 1060.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 100.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 10.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 115.09933774834437 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 20.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 40.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | Dataset Title | value | currentMonth | | (facilities.get(0).consultation\_Time\_m[currentMonth] + facilities.get(1).consultation\_Time\_m[currentMonth]+ facilities.get(2).consultation\_Time\_m[currentMonth])/3 | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot5 | | | | | | | | | | | | |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | true | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 10000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: To | | | sim\_dur\_months | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 1 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 1010.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 135.09933774834437 | | | | | |  |  |  |  |  |  |
|  | y | | | 1060.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 100.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 10.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 115.09933774834437 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 20.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 40.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | Dataset Title | value | currentMonth | | (facilities.get(0).OOP\_m[currentMonth] + facilities.get(1).OOP\_m[currentMonth]+ facilities.get(2).OOP\_m | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
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|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  |  |  |  |  | [currentMonth])/3 |  |  |  |  |  |  |  |  |  |  |
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|  | Plot: plot6 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | true | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 10000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: To | | | sim\_dur\_months | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 10 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 1202.119 | | | | | |  |  |  |  |  |  |
|  | Width | | | 135.09933774834437 | | | | | |  |  |  |  |  |  |
|  | y | | | 1060.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 100.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 10.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 115.09933774834437 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 20.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 40.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  |  | Page 45 of | | | 265 | |  |  |  |  |  |  |  |

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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | Dataset Title | value | currentMonth | | (facilities.get(0).Kindness\_m[currentMonth] + facilities.get(1).Kindness\_m[currentMonth]+ facilities.get(2).Kindness\_m[currentMonth])/3 | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot7 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | true | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 10000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: To | | | sim\_dur\_months | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 100 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 1020.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 301.7359413202934 | | | | | |  |  |  |  |  |  |
|  | y | | | 845.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 110.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 221.73594132029342 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 20.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 70.0 | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | Dataset Title | value | max(currentMonth-1,0) | | round(total\_Bypassing\_Births\_m[max(currentMonth-1,0)]/total\_Facility\_Births\_m[max(currentMonth-1,0)]\*100) | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Statistics: squareError | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Discrete | | | true | | | | | |  |  |  |  |  |  |
|  | Show at runtime | | | true | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
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|  | Text: text | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Show at runtime | | | true | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Embedded icon | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | true | | | | | |  |  |  |  |  |  |
|  | Text | | | | | | | | |  |  |  |  |  |  |
|  | Text | | | System Outcomes | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Color | | | black | | | | | |  |  |  |  |  |  |
|  | Alignment | | | LEFT | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 2050.0 | | | | | |  |  |  |  |  |  |
|  | y | | | 70.0 | | | | | |  |  |  |  |  |  |
|  | z | | | 0.0 | | | | | |  |  |  |  |  |  |
|  | Rotation | | | 0.0 | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show in | | | 2D only | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text2 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Woman Experience  Modifiers | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -620.0 | | |  |  |  |
|  | y | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text3 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Simulation Set Up | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -360.0 | | |  |  |  |
|  | y | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text4 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Simulation  Steps & Outputs | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1820.0 | | |  |  |  |
|  | y | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text10 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | COSMIC | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 40.0 | | |  |  |  |
|  | y | 20.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text11 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | Name | Value | | |  |  |  |
|  |  | Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure  dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident,  sunt in culpa qui officia deserunt mollit anim id est laborum. | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 40.0 | | |  |  |  |
|  | y | 85.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Image: image | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1370.0 | | |  |  |  |
|  | Width | 130.0 | | |  |  |  |
|  | y | 10.0 | | |  |  |  |
|  | Height | 68.166 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Image: image1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1270.0 | | |  |  |  |
|  | Width | 83.172 | | |  |  |  |
|  | y | 10.0 | | |  |  |  |
|  | Height | 67.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Image: image2 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1440.0 | | |  |  |  |
|  | Width | 49.613 | | |  |  |  |
|  | y | 90.0 | | |  |  |  |
|  | Height | 50.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Image: image3 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1280.0 | | |  |  |  |
|  | Width | 139.379 | | |  |  |  |
|  | y | 95.0 | | |  |  |  |
|  | Height | 37.288 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text12 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 51 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | P4P for Maternal & Child Health in Tanzania | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 30.0 | | |  |  |  |
|  | y | 45.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: SystemReportArea | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | white | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 3.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 220.0 | | |  |  |  |
|  | Width | 1150.0 | | |  |  |  |
|  | y | 780.0 | | |  |  |  |
|  | Height | 390.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text15 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Average Outcomes Across District | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 620.0 | | |  |  |  |
|  | y | 800.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Prop of Births | | |  |  |  |
|  | Dynamic: Text | round(total\_Facility\_Births\_m[max(currentMonth-1,0)]/total\_Births\_m[max(currentMonth-1,0)]\*100)+"%" | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | blue | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 320.0 | | |  |  |  |
|  | y | 840.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text16 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Percent of Births  in Facilities | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 320.0 | | |  |  |  |
|  | y | 890.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text17 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Sim. Period | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1005.0 | | |  |  |  |
|  | y | 35.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text18 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | text | | |  |  |  |
|  | Dynamic: Text | "Month "+ currentMonth +" out of " + round(ceil(sim\_dur\_months)) | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1000.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | y | 85.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text19 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Month | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | gray | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 640.0 | | |  |  |  |
|  | y | 955.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | gray | | |  |  |  |
|  | Line width | 1.5 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 955.0 | | |  |  |  |
|  | Width | 190.0 | | |  |  |  |
|  | y | 30.0 | | |  |  |  |
|  | Height | 75.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle2 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | gray | | |  |  |  |
|  | Line width | 1.5 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 955.0 | | |  |  |  |
|  | Width | 190.0 | | |  |  |  |
|  | y | 20.0 | | |  |  |  |
|  | Height | 10.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Line: line9 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | gray | | |  |  |  |
|  | Line width | 1.5 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1100.0 | | |  |  |  |
|  | dX | 0.0 | | |  |  |  |
|  | y | 25.0 | | |  |  |  |
|  | dY | -10.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | dZ | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Line: line11 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | gray | | |  |  |  |
|  | Line width | 1.5 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1010.0 | | |  |  |  |
|  | dX | 0.0 | | |  |  |  |
|  | y | 25.0 | | |  |  |  |
|  | dY | -10.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | dZ | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text20 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Simulation Features | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -350.0 | | |  |  |  |
|  | y | 450.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text21 | | | | |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Prop of Births | | |  |  |  |
|  | Dynamic: Text | total\_Facility\_Refused\_m[max(0,currentMonth-1)] | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | blue | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 332.053 | | |  |  |  |
|  | y | 990.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text22 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Births at Other Facility Due to Facility Capacity | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 332.053 | | |  |  |  |
|  | y | 1030.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text23 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 58 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Month | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | gray | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 395.099 | | |  |  |  |
|  | y | 1130.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text25 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Prop of Births | | |  |  |  |
|  | Dynamic: Text | round((facilities.get(0).outreach\_m[currentMonth] + facilities.get(1).outreach\_m[currentMonth]+ facilities.get(2).outreach\_m[currentMonth])/0.03) +"%" | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | blue | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 521.192 | | |  |  |  |
|  | y | 990.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text26 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Text | Percent of Facilities With Outreach | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 521.192 | | |  |  |  |
|  | y | 1030.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text27 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Month | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | gray | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 584.238 | | |  |  |  |
|  | y | 1130.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text28 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Average Drug Avail. at Facilities | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 710.331 | | |  |  |  |
|  | y | 1030.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text29 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Month | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | gray | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 773.377 | | |  |  |  |
|  | y | 1130.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text30 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Prop of Births | | |  |  |  |
|  | Dynamic: Text | round((facilities.get(0).drugs\_avail\_m[currentMonth] + facilities.get(1).drugs\_avail\_m[currentMonth]+ facilities.get(2).drugs\_avail\_m[currentMonth])/3) | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | blue | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 710.331 | | |  |  |  |
|  | y | 990.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text31 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Month | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | gray | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 965.496 | | |  |  |  |
|  | y | 1130.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text32 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Average Consultation Time (mins) | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 902.45 | | |  |  |  |
|  | y | 1030.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text33 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Prop of Births | | |  |  |  |
|  | Dynamic: Text | round((facilities.get(0).consultation\_Time\_m[currentMonth] + facilities.get(1).consultation\_Time\_m[currentMonth]+ facilities.get(2).consultation\_Time\_m[currentMonth])/3) | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | blue | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 902.45 | | |  |  |  |
|  | y | 990.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text34 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Prop of Births | | |  |  |  |
|  | Dynamic: Text | (facilities.get(0).OOP\_m[currentMonth] + facilities.get(1).OOP\_m[currentMonth]+ facilities.get(2).OOP\_m[currentMonth])/3 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | blue | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1082.053 | | |  |  |  |
|  | y | 990.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Text: text35 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Month | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | gray | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1337.218 | | |  |  |  |
|  | y | 1130.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text36 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Month | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | gray | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1145.099 | | |  |  |  |
|  | y | 1130.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text37 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Average OOP | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1082.053 | | |  |  |  |
|  | y | 1030.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text38 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Average Kindness  Score | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1274.172 | | |  |  |  |
|  | y | 1030.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text39 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Prop of Births | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 65 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Dynamic: Text | (facilities.get(0).Kindness\_m[currentMonth] + facilities.get(1).Kindness\_m[currentMonth]+ facilities.get(2).Kindness\_m[currentMonth])/3 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | blue | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1274.172 | | |  |  |  |
|  | y | 990.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text41 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Simulation Start Up | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -340.0 | | |  |  |  |
|  | y | 730.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text42 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Simulation Outputs | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -540.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | y | 360.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text46 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | time(MONTH) | | |  |  |  |
|  | Dynamic: Text | getMonth()+1 +"/" + getYear() | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1013.0 | | |  |  |  |
|  | y | 56.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval15 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>=PaymentEvents[6] & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | tomato | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1194.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 190.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval14 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>41 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | tomato | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1149.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 190.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval22 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>33 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellow | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1104.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 190.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval12 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>26 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellowGreen | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1059.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 190.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle5 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 889.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 160.0 | | |  |  |  |
|  | Height | 39.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle6 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 889.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 140.0 | | |  |  |  |
|  | Height | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle7 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 914.056 | | |  |  |  |
|  | Width | 20.0 | | |  |  |  |
|  | y | 180.0 | | |  |  |  |
|  | Height | 19.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text44 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 6 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 899.056 | | |  |  |  |
|  | y | 165.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text45 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 1 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 909.056 | | |  |  |  |
|  | y | 145.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  | | | | | |  |
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|  |  | Page 71 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Text: text47 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 9 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 899.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>5 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellowGreen | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 924.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 170.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval5 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 72 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>12 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | tomato | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 924.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 190.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text48 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>12 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 13 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 918.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle8 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 73 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 959.056 | | |  |  |  |
|  | Width | 20.0 | | |  |  |  |
|  | y | 180.0 | | |  |  |  |
|  | Height | 19.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text49 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 12 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 939.056 | | |  |  |  |
|  | y | 165.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle9 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 934.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 140.0 | | |  |  |  |
|  | Height | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval6 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>11 & P4P | | |  |  |  |
|  | Show at runtime | false | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellowGreen | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 969.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 170.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text50 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 15 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 939.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval7 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>17 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | tomato | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 969.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 190.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle10 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 934.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 160.0 | | |  |  |  |
|  | Height | 39.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text51 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>17 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 18 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 963.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text52 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 2 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 954.056 | | |  |  |  |
|  | y | 145.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval8 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>21 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellow | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1014.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 190.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval9 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>17 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellowGreen | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 78 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1014.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 170.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text53 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 3 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 999.056 | | |  |  |  |
|  | y | 145.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle11 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 979.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 79 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | y | 160.0 | | |  |  |  |
|  | Height | 39.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text54 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>21 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 22 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1008.056 | | |  |  |  |
|  | y | 184.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text55 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 21 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 984.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 80 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle12 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 979.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 140.0 | | |  |  |  |
|  | Height | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle13 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1004.056 | | |  |  |  |
|  | Width | 20.0 | | |  |  |  |
|  | y | 180.0 | | |  |  |  |
|  | Height | 19.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text56 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 18 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 984.056 | | |  |  |  |
|  | y | 165.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval11 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>23 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellowGreen | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1059.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 170.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text57 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 4 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1044.056 | | |  |  |  |
|  | y | 145.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle14 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1024.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 160.0 | | |  |  |  |
|  | Height | 39.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text58 | | | | |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>26 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 27 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1053.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text59 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 27 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1029.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle15 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1024.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 140.0 | | |  |  |  |
|  | Height | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle16 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1049.056 | | |  |  |  |
|  | Width | 20.0 | | |  |  |  |
|  | y | 180.0 | | |  |  |  |
|  | Height | 19.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text60 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 85 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 24 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1029.056 | | |  |  |  |
|  | y | 165.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle17 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1114.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 140.0 | | |  |  |  |
|  | Height | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval10 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>29 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellowGreen | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 86 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1104.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 170.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text61 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 5 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1089.056 | | |  |  |  |
|  | y | 145.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle18 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
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|  |  | Page 87 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | x | 1069.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 160.0 | | |  |  |  |
|  | Height | 39.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text62 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 7 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1179.056 | | |  |  |  |
|  | y | 145.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text63 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>34 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 34 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1098.056 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text64 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>41 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 42 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1143.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle19 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1139.056 | | |  |  |  |
|  | Width | 20.0 | | |  |  |  |
|  | y | 180.0 | | |  |  |  |
|  | Height | 19.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle20 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1184.056 | | |  |  |  |
|  | Width | 20.0 | | |  |  |  |
|  | y | 180.0 | | |  |  |  |
|  | Height | 19.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle21 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1094.056 | | |  |  |  |
|  | Width | 20.0 | | |  |  |  |
|  | y | 180.0 | | |  |  |  |
|  | Height | 19.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text65 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 30 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1074.056 | | |  |  |  |
|  | y | 165.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval13 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>41 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellowGreen | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1194.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 170.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text66 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>=PaymentEvents[6] & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 27 | | |  |  |  |
|  | Dynamic: Text | PaymentEvents[6] | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1188.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle22 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1114.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 160.0 | | |  |  |  |
|  | Height | 39.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  | | | | | |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle23 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1159.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 140.0 | | |  |  |  |
|  | Height | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text67 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 36 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1119.056 | | |  |  |  |
|  | y | 165.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text68 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 42 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1164.056 | | |  |  |  |
|  | y | 165.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text69 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 39 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1119.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text70 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Text | 6 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1134.056 | | |  |  |  |
|  | y | 145.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text71 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 33 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1074.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval17 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>35 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellowGreen | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1149.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 170.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle24 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1069.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 140.0 | | |  |  |  |
|  | Height | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle25 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1159.056 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 160.0 | | |  |  |  |
|  | Height | 39.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text72 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 45 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1164.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text73 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 8 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1224.056 | | |  |  |  |
|  | y | 145.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text75 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 48 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1209.056 | | |  |  |  |
|  | y | 165.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval18 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | currentMonth>47 & P4P | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | yellowGreen | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 1239.056 | | |  |  |  |
|  | Radius X | 7.5 | | |  |  |  |
|  | y | 170.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle27 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1204.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 140.0 | | |  |  |  |
|  | Height | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle28 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1204.056 | | |  |  |  |
|  | Width | 45.0 | | |  |  |  |
|  | y | 160.0 | | |  |  |  |
|  | Height | 39.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle32 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 740.0 | | |  |  |  |
|  | Width | 148.76691729323306 | | |  |  |  |
|  | y | 160.0 | | |  |  |  |
|  | Height | 39.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle34 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 740.0 | | |  |  |  |
|  | Width | 148.76691729323306 | | |  |  |  |
|  | y | 140.0 | | |  |  |  |
|  | Height | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Text: text82 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Payment Cycle | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 774.056 | | |  |  |  |
|  | y | 145.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text83 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Performance Month | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 764.056 | | |  |  |  |
|  | y | 165.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text84 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Payment Scheduled | Issued | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 749.056 | | |  |  |  |
|  | y | 185.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle33 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 889.0 | | |  |  |  |
|  | Width | 90.0 | | |  |  |  |
|  | y | 127.0 | | |  |  |  |
|  | Height | 53.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text81 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Text | 2011 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 921.0 | | |  |  |  |
|  | y | 127.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle35 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 979.0 | | |  |  |  |
|  | Width | 90.0 | | |  |  |  |
|  | y | 127.0 | | |  |  |  |
|  | Height | 53.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text85 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 2012 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1011.0 | | |  |  |  |
|  | y | 127.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle36 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1069.0 | | |  |  |  |
|  | Width | 90.0 | | |  |  |  |
|  | y | 127.0 | | |  |  |  |
|  | Height | 53.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text86 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 2013 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1101.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | y | 127.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle37 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1159.0 | | |  |  |  |
|  | Width | 90.0 | | |  |  |  |
|  | y | 127.0 | | |  |  |  |
|  | Height | 53.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text87 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | 2014 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1191.0 | | |  |  |  |
|  | y | 127.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text74 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Calibration Values | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -690.0 | | |  |  |  |
|  | y | 790.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text5 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Prop of Births | | |  |  |  |
|  | Dynamic: Text | round(total\_Bypassing\_Births\_m[max(currentMonth-1,0)]/total\_Facility\_Births\_m[max(currentMonth-1,0)]\*100)+"%" | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | blue | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 840.0 | | |  |  |  |
|  | y | 840.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Text: text24 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Percent of Facility  Births Bypassing | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 840.0 | | |  |  |  |
|  | y | 890.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text40 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Month | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | gray | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1160.0 | | |  |  |  |
|  | y | 955.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Agent Presentation: women\_presentation | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Public | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Latitude | 0.0 | | |  |  |  |
|  | Longitude | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Scale | Automatically calculated | | |  |  |  |
|  | Real size when map scale is under | 1000 | | |  |  |  |
|  | Fixed size when map scale is under | 1000000000 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Draw agent with offset to this position | false | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Agent Presentation: facilities\_presentation | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Latitude | 0.0 | | |  |  |  |
|  | Longitude | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Scale | Automatically calculated | | |  |  |  |
|  | Real size when map scale is under | 1000 | | |  |  |  |
|  | Fixed size when map scale is under | 1000000000 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Draw agent with offset to this position | true | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Agent Presentation: manager\_presentation | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Latitude | 0.0 | | |  |  |  |
|  | Longitude | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Scale | Automatically calculated | | |  |  |  |
|  | Real size when map scale is under | 1000 | | |  |  |  |
|  | Fixed size when map scale is under | 1000000000 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Draw agent with offset to this position | false | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | GIS Map: map | | | | |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Tiles | | | |  |  |  |
|  | Show tiles | true | | |  |  |  |
|  | Tile provider | AnyLogic | | |  |  |  |
|  | Routing | | | |  |  |  |
|  | Routes are | Requested from OSM server | | |  |  |  |
|  | Routing server | AnyLogic | | |  |  |  |
|  | Routing method | Fastest | | |  |  |  |
|  | Road type | Car | | |  |  |  |
|  | If route not found | Create straight route | | |  |  |  |
|  | Center and scale | | | |  |  |  |
|  | Latitude | -6.353688459132326 | | |  |  |  |
|  | Longitude | 38.863913632418885 | | |  |  |  |
|  | Scale | 800000 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Border color | silver | | |  |  |  |
|  | Fill color | white | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 320.0 | | |  |  |  |
|  | Width | 900.0 | | |  |  |  |
|  | y | 240.0 | | |  |  |  |
|  | Height | 500.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Use custom tile URL | false | | |  |  |  |
|  | Use custom route provider | false | | |  |  |  |
|  | Routes and regions generalization uses Current map scale | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Group: group | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1360.0 | | |  |  |  |
|  | y | 480.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Stack Chart: chart | | | | |  |  |
|  |  |  |  |  |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Scale type | Auto | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Bars relative width | 1.0 | | |  |  |  |
|  | Labels horizontal position | DEFAULT | | |  |  |  |
|  | Chart Area Grid Color | black | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -130.0 | | |  |  |  |
|  | Width | 60.81081081081082 | | |  |  |  |
|  | y | 40.0 | | |  |  |  |
|  | Height | 21.62162162162162 | | |  |  |  |
|  | Legend | | | |  |  |  |
|  | Show legend | false | | |  |  |  |
|  | Chart area | | | |  |  |  |
|  | Chart Area: X Offset | 10.0 | | |  |  |  |
|  | Chart Area: Width | 45.81081081081082 | | |  |  |  |
|  | Chart Area: Y Offset | 10.0 | | |  |  |  |
|  | Chart Area: Height | 1.621621621621621 | | |  |  |  |
|  | Chart Area: Background Color | white | | |  |  |  |
|  | Chart area border color | black | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Excel File: inputData | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | File name | ResourceReference: cosmic\_abm.List of Variables.xlsx (Resolved: true) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Load on model startup | true | | |  |  |  |
|  | Save on model termination | true | | |  |  |  |
|  | Save in snapshot | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Link to agents: connections | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Communication | | | |  |  |  |
|  | Message type | Object | | |  |  |  |
|  | Animation | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Draw line | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Agent Type: Woman | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Agent actions | | | |  |  |  |
|  | Startup code | //closestFacility = this.getNearestAgent(main.facilities); parity = prev\_pregnancy;    //Initialize with some pregnant women as selected in the startup if(randomTrue(main.PerPregInitiation)){ send("isPregnant", this); day\_of\_pregnancy = -uniform(1,269); }  //checkFacility(); | | |  |  |  |
|  | Agent in flowcharts | | | |  |  |  |
|  | Use in flowcharts as | Agent | | |  |  |  |
|  | Dimensions and movement | | | |  |  |  |
|  | Speed | (10 : MPS) | | |  |  |  |
|  | Rotate animation towards movement | true | | |  |  |  |
|  | Rotate vertically as well (along Z-axis) | false | | |  |  |  |
|  | Space and network | | | |  |  |  |
|  | Space Type | Continuous | | |  |  |  |
|  | Advanced Java | | | |  |  |  |
|  | Generic | false | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  | Auto-create datasets | true | | |  |  |  |
|  | AOC\_DATASETS\_UPDATE\_TIME\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Limit the number of data samples | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Scale: scale | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Unit | meters | | |  |  |  |
|  | Scale | 10.0 | | |  |  |  |
|  | Type | Defined graphically | | |  |  |  |
|  | Length, pixels | 100.0 | | |  |  |  |
|  | Show at runtime | false | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  | y | -150.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  |  | | | | | |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Parameter: education | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: 4 categories: 0 for no education, 1 for some primary, 2 for primary/some secondary, 3 for secondary or above | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0//uniform\_discr(0,3) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Label | education | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | 4 categories: 0 for no education, 1 for some primary, 2 for primary/some secondary, 3 for secondary or above | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: muslim | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: binary variable 1 for muslim and 0 for non-muslim | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 //uniform\_discr(0,1) | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | binary variable 1 for muslim and 0 for non-muslim | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: prev\_pregnancy | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: the unit for pregnancy is child/children eg previous pregnancy =1 indicate patient has had a single child | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | main.parityDistribution() | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Label | prev\_pregnancy | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | the unit for pregnancy is child/children eg previous pregnancy =1 indicate patient has had a single child | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: SES | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: 3 categories for socio economic status: 0 for poorest (Tercile 1), 1 for middle (Tercile 2), 2 for least poor (Tercile 3) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 //uniform\_discr(0,2) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | 3 categories for socio economic status: 0 for poorest (Tercile 1), 1 for middle (Tercile 2), 2 for least poor (Tercile 3) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: anc\_visits | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of ANC visits attended for this pregnancy (pregnant woman is recommended to have at least 4 anc\_visits) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(0,5) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of ANC visits attended for this pregnancy (pregnant woman is recommended to have at least 4 anc\_visits) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: checkFacility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
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|  |  | Page 114 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | | | |  |  |
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|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type: | | Just action (returns nothing) | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | fCapacity= f.capacity\_m[main.currentMonth]; //Get capacity fOccupancy = f.inClinic.size(); //Get current occupancy plus 1 to include self currentWeight= min(1,max(0,-((1-exp(-0.5\*(fOccupancy-fCapacity)))/(1+exp(-0.5\*(fOccupancy-fCapacity))))+(1+((1-exp(-0.5\*(1-fCapacity)))/(1+exp(-0.5\*(1-fCapacity))))))); if(main.occupancyEffects == 0) currentWeight = 1;  new\_patient\_consultation\_time = f.consultation\_Time\_m[main.currentMonth]\*currentWeight+main.occupancyCushion; new\_patient\_waiting\_time = f.waiting\_Time\_m[main.currentMonth]; TBAs = f.incentive\_TBA\_m[main.currentMonth]; new\_patient\_drugs = f.drugs\_avail\_m[main.currentMonth];   new\_patient\_interpersonal\_quality = f.interpersonal\_Quality\_m[main.currentMonth];//\*currentWeight; new\_patient\_kindness = f.Kindness\_m[main.currentMonth];//\*currentWeight; new\_patient\_OOP = randomTrue(f.OOP\_m[main.currentMonth])? 1:0; | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Arguments: | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | Type | |  |  |  |  |  |  |
|  | f | Facility | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Function: calcProbFacilityDelivery | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Description: A function to calculate the probability (between 0 and 1) of delivering at a facility. | | | | | | |  |  |
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|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type | | double | | | |  |  |  |
|  | Return type: | | Returns value | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | fCapacity= f.capacity\_m[main.currentMonth]; //Get capacity fOccupancy = f.inClinic.size(); //Get current occupancy plus 1 to include self currentWeight= 1 - pow((fOccupancy/fCapacity),3); //min(1,max(0,-((1-exp(-0.5\*(fOccupancy-fCapacity)))/(1+exp(-0.5\*(fOccupancy-fCapacity))))+(1+((1-exp(-0.5\*(1-fCapacity)))/(1+exp(-0.5\*(1-fCapacity))))))); if(main.occupancyEffects == 0) currentWeight = 1;  new\_patient\_consultation\_time = f.consultation\_Time\_m[main.currentMonth]\*currentWeight+main.occupancyCushion; new\_patient\_waiting\_time = f.waiting\_Time\_m[main.currentMonth]; TBAs = f.incentive\_TBA\_m[main.currentMonth]; new\_patient\_drugs = f.drugs\_avail\_m[main.currentMonth]; | | | |  |  |  |
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|  |  |  | Page 115 of | | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  |  | new\_patient\_interpersonal\_quality = f.interpersonal\_Quality\_m[main.currentMonth];//\*currentWeight; new\_patient\_kindness = f.Kindness\_m[main.currentMonth];//\*currentWeight; new\_patient\_OOP = randomTrue(f.OOP\_m[main.currentMonth])? 1:0;  double travelT = getDistance(f.gisX,f.gisY,gisX,gisY)\*500;  f\_staff = f.number\_staff\_m[main.currentMonth]; f\_outreach = f.outreach\_m[main.currentMonth];  f\_consTime = f.consultation\_Time\_m[main.currentMonth];  parity = prev\_pregnancy>0 ? 1: 0; //Prepare pregnancy variable for reg // [is now loaded, then updated] anc\_over\_4 = anc\_visits>3 ? 1: 0; //Prepare ANC visits variable for reg  //Updated December 6th, 2022 //Reduced model in the Appendix of Peter's Paper (reduced model, no ANC quality)  x\_reg = -0.126; //Intercept x\_reg = x\_reg + educCoefficients(education); //Education x\_reg = x\_reg + 0.472 \* parity; //Previous Preganancy x\_reg = x\_reg + 0.336 \* anc\_over\_4; //ANC Visits x\_reg = x\_reg + 0.012 \* f.number\_staff\_m[main.currentMonth]; //Staffing x\_reg = x\_reg + 0.374 \* f.outreach\_m[main.currentMonth]; //Outreach x\_reg = x\_reg - 0.006 \* new\_patient\_waiting\_time; //Waiting Time x\_reg = x\_reg + 0.032 \* new\_patient\_consultation\_time; //Consult. Time x\_reg = x\_reg + 1.500 \* new\_patient\_interpersonal\_quality; //Interpersonal Staff x\_reg = x\_reg - 1.142 \* new\_patient\_OOP; //Out of Pocket Expense for New Patient x\_reg = x\_reg + -0.012 \* travelT; //Travel Time   pre\_prob\_delivery\_at\_facility= (exp(x\_reg)) / (1 + (exp(x\_reg))) ; //as in Abdullah's paper - Alibrahim and Wu (2018)   if(prev\_pregnancy==0) new\_patient\_experience =0; modifier\_sum=(new\_patient\_experience \* main.M1a) + (new\_home\_experience \* main.M1b)+ (influences \* main.M2) + (TBAs \* main.M3);  //If mods are off in main, revert to probability model only if(main.womenChoiceMods==0) return pre\_prob\_delivery\_at\_facility;   //For next delivery: new\_patient\_experience\_proportion = (0.4 \* (new\_patient\_kindness / 10) + 0.4 \* (new\_patient\_drugs/ 100) + 0.2 \* (closestFacility.facility\_gifts\_m[main.currentMonth])) ; if(uniform(0,1)<new\_patient\_experience\_proportion) new\_patient\_experience = 1; //meaning good new patient experience at facility  else new\_patient\_experience = -1; //meaning bad new patient experience at facility    if(modifier\_sum<0) return pre\_prob\_delivery\_at\_facility\*(1+modifier\_sum); else return pre\_prob\_delivery\_at\_facility\*(1+modifier\_sum\*(1-pre\_prob\_delivery\_at\_facility)); | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
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|  | *COSMIC-ABM* | | | | | | |  |  |
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|  | Name | | Value | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Description | | | | | |  |  |  |
|  | Description | | A function to calculate the probability (between 0 and 1) of delivering at a facility. | | | |  |  |  |
|  | Arguments: | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | Type | |  |  |  |  |  |  |
|  | f | Facility | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Function: complicationProb | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Description: Source: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4728153/ | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type | | double | | | |  |  |  |
|  | Return type: | | Returns value | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | return 0.46; | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Description | | | | | |  |  |  |
|  | Description | | Source: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4728153/ | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Function: update\_influences | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Description: update influences | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type: | | Just action (returns nothing) | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | //Create network of women if empty (run set up) if(linkedWomen.isEmpty()){ for( int j=0; j<main.n\_social; j++) {  Woman w = randomWhere(closestFacility.catchmentArea, p -> p != this && !linkedWomen.contains(p));  linkedWomen.add(w);  connectTo(w);  } }   //Get experiences from linked women for( int j=0; j<linkedWomen.size(); j++) {  Woman w = linkedWomen.get(j);  sum\_linked\_experience = sum\_linked\_experience + w.new\_patient\_experience\*(w.inFacilityBirth ? 1:0);// + w.anc\_exp; removed after 8/4/22 call  connectTo(w);  }  //if the positive and negative experiences of other women (linked to | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  | this woman) cancel each other out then setting influences to 0 means this term doesn't affect p if(sum\_linked\_experience==0) influences = 0;   //if the net effect of the positive and negative experiences of other women (linked to this woman) gives a positive result overall then setting influences to 1 will act to increase p if(sum\_linked\_experience>0) influences = 1;  //if the net effect of the positive and negative experiences of other women (linked to this woman) gives a negative result overall then setting influences to (-1) will act to reduce p if(sum\_linked\_experience<0) influences = -1; | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | update influences | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: findNextClosestFacility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Function body | | | |  |  |  |
|  | Body | //double smallestDist = 1000000000;  for( int i=0; i<main.facilities.size(); i++) {  Facility f = main.facilities.get(i);  if(f != closestFacility) distantFacilities.add(f); }  nextClosestFacility = this.getNearestAgent(distantFacilities); bypassTravel\_Time = getDistance(nextClosestFacility.gisX,nextClosestFacility.gisY,gisX,gisY)\*500;   //Fix if closest facility is not catchment facility  if(bypassTravel\_Time<travel\_Time){ Facility temp = closestFacility; double temp\_travel = bypassTravel\_Time;  closestFacility = nextClosestFacility; bypassTravel\_Time = travel\_Time; nextClosestFacility = temp; travel\_Time = temp\_travel; } | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: getProbabilities | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | | | |  |  |
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|  | Name | | Value | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | pDistantFacilityDelivery = calcProbFacilityDelivery(nextClosestFacility); pFacilityDelivery = calcProbFacilityDelivery(closestFacility); pBypass = (pDistantFacilityDelivery)/(pDistantFacilityDelivery+pFacilityDelivery+main.b); | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Function: checkBypass | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type: | | Just action (returns nothing) | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | if(main.bypass == 0) deliveryFacility = closestFacility; else{    if(uniform()<pBypass) bypass = 1;  else bypass = 0;    if(bypass == 1) deliveryFacility = nextClosestFacility;  else deliveryFacility = closestFacility;      if(bypass == 1){  nextClosestFacility.count\_of\_Bypass\_to++;  closestFacility.count\_of\_Bypass\_from++;  } } | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Table Function: educCoefficients | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Out of range behavior | | Error | | | |  |  |  |
|  | Interpolation | | None | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Table data | | | | | |  |  |  |
|  | Load From Database | | false | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | public | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Table Data: | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Argument | Value | |  |  |  |  |  |  |
|  | 0.0 | 0.0 | |  |  |  |  |  |  |
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|  | Table Data: | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Argument | Value | |  |  |  |  |  |  |
|  | 1.0 | 0.402 | |  |  |  |  |  |  |
|  | 2.0 | 0.599 | |  |  |  |  |  |  |
|  | 3.0 | 1.935 | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Table Function: SESCoefficients | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Out of range behavior | | Error | | | |  |  |  |
|  | Interpolation | | None | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Table data | | | | | |  |  |  |
|  | Load From Database | | false | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | public | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Table Data: | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Argument | Value | |  |  |  |  |  |  |
|  | 0.0 | 0.0 | |  |  |  |  |  |  |
|  | 1.0 | -0.0071089 | |  |  |  |  |  |  |
|  | 2.0 | 0.8239178 | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Variable: closestFacility | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Description: Closest facility to the woman | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Type | | Facility | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | public | | | |  |  |  |
|  | Constant | | false | | | |  |  |  |
|  | Save in snapshot | | true | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Description | | | | | |  |  |  |
|  | Description | | Closest facility to the woman | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Variable: new\_patient\_OOP | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Description: binary variable 1 if patient had to pay for something during delivery and 0 if they did not | | | | | | |  |  |
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|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Initial value | | uniform\_discr(0,1); | | | |  |  |  |
|  | Type | | double | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | binary variable 1 if patient had to pay for something during delivery and 0 if they did not | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: travel\_Time | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Average travel time to facility (minutes) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Average travel time to facility (minutes) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: X | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: X Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | X Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: Y | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Y Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
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|  |  | Page 121 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Y Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: new\_patient\_consultation\_time | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Patient-contact time, i.e. the total amount of time the health worker spends with the patient throughout the time she is in the facility (if she chooses to deliver in facility) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | uniform\_discr(0,15) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Patient-contact time, i.e. the total amount of time the health worker spends with the patient throughout the time she is in the facility (if she chooses to deliver in facility) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: new\_patient\_interpersonal\_quality | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: interpersonal\_quality score for facility (when deliver in facility) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | uniform\_discr(1,6); | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | interpersonal\_quality score for facility (when deliver in facility) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: new\_patient\_kindness | | | | |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | uniform\_discr(1,10); | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: day\_of\_pregnancy | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: pregnant\_days | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: pregnant | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 123 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: currentWeight | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: fCapacity | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Capacity at facility when checked | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Capacity at facility when checked | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: new\_patient\_drugs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | uniform\_discr(1,10); | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: new\_patient\_experience\_proportion | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 124 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: new\_patient\_experience | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: An experience indicator taking a value of 1 (good) or -1 (bad) with the probability of taking a value of +1 equal to:  0.4\*kindess + 0.4\*drugs + 0.2\*gifts (each variable normalized to 0 or 1, obtained in the checkFacility function) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | An experience indicator taking a value of 1 (good) or -1 (bad) with the probability of taking a value of +1 equal to:  0.4\*kindess + 0.4\*drugs + 0.2\*gifts (each variable normalized to 0 or 1, obtained in the checkFacility function) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: fOccupancy | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Occupancy at facility when checked | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Occupancy at facility when checked | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: prob\_delivery\_at\_facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Description: Y Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Y Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: new\_patient\_waiting\_time | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Facility average waiting time in mins = time since arrive until enters consultation room / receives a service (from exit survey – didn’t include delivery) – used as a proxy for facility reputation in the regression model. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | uniform\_discr(0,15) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Facility average waiting time in mins = time since arrive until enters consultation room / receives a service (from exit survey – didn’t include delivery) – used as a proxy for facility reputation in the regression model. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: parity | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: binary variable: 1 for first delivery and 0 for not Is set at the calcPorbFacilityDelivery function in this agent | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | binary variable: 1 for first delivery and 0 for not Is set at the calcPorbFacilityDelivery function in this agent | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: modifier\_sum | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: x value used for regression | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | x value used for regression | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: new\_home\_experience | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Experience score from most recent delivery at home: 'experience' is a hypothetical binary composite score used to determine whether or not woman would recommend home delivery (but with 'bad' home experience being represented by 1 rather than -1, and vice versa, to align with direction of influences on likelihood of facility delivery) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | randomTrue(complicationProb())? 1:-1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Experience score from most recent delivery at home: 'experience' is a hypothetical binary composite score used to determine whether or not woman would recommend home delivery (but with 'bad' home experience being represented by 1 rather than -1, and vice versa, to align with direction of influences on likelihood of facility delivery) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: anc\_exp | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: variable for most recent experience of ANC (linked to data on ANC quality index for facility, which is a percentage). Having no ANC visits results in value 0. A positive experience scores 1 and negative experience scores -1. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 127 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | variable for most recent experience of ANC (linked to data on ANC quality index for facility, which is a percentage). Having no ANC visits results in value 0. A positive experience scores 1 and negative experience scores -1. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: influences | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: score from across all other women influencing a women's probability of delivering in a facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | randomTrue(complicationProb())? 1:-1; | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | score from across all other women influencing a women's probability of delivering in a facility | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: TBAs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: binary variable for modifier: set to 0 if no traditional birth attendants encouraged woman to delivery in a facility and set to 1 if they did encourage her to deliver in facility (increasing the probability of facility delivery) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | binary variable for modifier: set to 0 if no traditional birth attendants encouraged woman to delivery in a facility and set to 1 if they did encourage her to deliver in facility (increasing the probability of facility delivery) | | |  |  |  |
|  |  | | | | | |  |
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|  |  | Page 128 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: sum\_linked\_experience | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: 'experience' is a binary composite score combining kindness and availability of drugs and gifts, used to determine whether or not woman would recommend facility delivery, whereas anc\_exp is based on percentage score for ANC quality index | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | 'experience' is a binary composite score combining kindness and availability of drugs and gifts, used to determine whether or not woman would recommend facility delivery, whereas anc\_exp is based on percentage score for ANC quality index | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: anc\_over\_4 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: binary variable: 1 for over 4 ANC visits | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | binary variable: 1 for over 4 ANC visits | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: inFacilityBirth | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: x value used for regression | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 129 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | x value used for regression | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: occupancyEffectBirth | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: x value used for regression | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | x value used for regression | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: inFacilityBirthAfterHome | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: x value used for regression | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | x value used for regression | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: x\_reg | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: x value used for regression | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  |  | Page 130 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | x value used for regression | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: f\_staff | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: staff | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | staff | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: f\_outreach | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: outreach | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | outreach | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: f\_consTime | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: constime | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | constime | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: pre\_prob\_delivery\_at\_facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Y Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Y Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: nextClosestFacility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Closest facility to the woman | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | Facility | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Closest facility to the woman | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: deliveryFacility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Closest facility to the woman | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | Facility | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Closest facility to the woman | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: bypass | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: binary variable 1 if patient had to pay for something during delivery and 0 if they did not | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | binary variable 1 if patient had to pay for something during delivery and 0 if they did not | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: bypassTravel\_Time | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Average travel time to facility (minutes) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Average travel time to facility (minutes) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: gisX | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: X Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 133 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | X Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: gisY | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Y Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Y Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: pFacilityDelivery | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: pBypass | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: pDistantFacilityDelivery | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Collection: linkedWomen | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Element class | Woman | | |  |  |  |
|  | Collection class | ArrayList | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Collection: distantFacilities | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Element class | Facility | | |  |  |  |
|  | Collection class | ArrayList | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle4 | | | | |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | new Color(224, 245, 245) | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 860.0 | | |  |  |  |
|  | Width | 360.0 | | |  |  |  |
|  | y | 220.0 | | |  |  |  |
|  | Height | 500.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle6 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | whiteSmoke | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 540.0 | | |  |  |  |
|  | Width | 300.0 | | |  |  |  |
|  | y | 350.0 | | |  |  |  |
|  | Height | 700.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle5 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | white | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 540.0 | | |  |  |  |
|  | Width | 300.0 | | |  |  |  |
|  | y | 10.0 | | |  |  |  |
|  | Height | 330.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Woman Characteristics | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 570.0 | | |  |  |  |
|  | y | 20.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Text | Facility Characteristics | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 570.0 | | |  |  |  |
|  | y | 360.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | false | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | silver | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Dynamic: Line Color | closestFacility.facility\_color | | |  |  |  |
|  | Line width | 4.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  | Radius X | 12.0625 | | |  |  |  |
|  | y | 0.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | On click | \_origin\_VA.navigateTo(); | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Oval: oval1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | pregnant; | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | white | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | Circle | true | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  | Radius X | 4.75 | | |  |  |  |
|  | y | 0.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | On click | \_origin\_VA.navigateTo(); | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text2 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Facility Experience | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 570.0 | | |  |  |  |
|  | y | 530.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text3 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Calculating Probability  of Facility Delivery | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 880.0 | | |  |  |  |
|  | y | 240.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text4 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Home Experience | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 570.0 | | |  |  |  |
|  | y | 820.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text5 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | occupancyEffectBirth & pregnant; | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | ! | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | y | -25.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle7 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | white | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  | Width | 520.0 | | |  |  |  |
|  | y | 130.0 | | |  |  |  |
|  | Height | 730.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text23 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Delivery and Decision Cycle | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 120.0 | | |  |  |  |
|  | y | 140.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text6 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | at home complication | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 195.0 | | |  |  |  |
|  | y | 635.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Link to agents: connections | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Communication | | | |  |  |  |
|  | Message type | Object | | |  |  |  |
|  | Animation | | | |  |  |  |
|  | Draw line | true | | |  |  |  |
|  | Line Z Order | Draw behind agents | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Line arrows | None | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Agent Type: Facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Agent in flowcharts | | | |  |  |  |
|  | Use in flowcharts as | Agent | | |  |  |  |
|  | Dimensions and movement | | | |  |  |  |
|  | Speed | (10 : MPS) | | |  |  |  |
|  | Rotate animation towards movement | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 142 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Rotate vertically as well (along Z-axis) | false | | |  |  |  |
|  | Space and network | | | |  |  |  |
|  | Space Type | Continuous | | |  |  |  |
|  | Advanced Java | | | |  |  |  |
|  | Generic | false | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  | Auto-create datasets | true | | |  |  |  |
|  | AOC\_DATASETS\_UPDATE\_TIME\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Limit the number of data samples | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Scale: scale | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Unit | meters | | |  |  |  |
|  | Scale | 10.0 | | |  |  |  |
|  | Type | Defined graphically | | |  |  |  |
|  | Length, pixels | 100.0 | | |  |  |  |
|  | Show at runtime | false | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 143 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  | y | -150.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: baseline\_num\_patients | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of patients who delivered in the baseline (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients who delivered in the baseline (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: number\_staff | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Number of medical staff (clinicians, nurses, paramedics) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(1,5) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Number of medical staff (clinicians, nurses, paramedics) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: outreach | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Binary variable: 1 if facility conducted outreach service in last 90 days’ and 0 otherwise. Outreach activities to provide education to the community on maternal and child health. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Default value | uniform\_discr(0,1) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Binary variable: 1 if facility conducted outreach service in last 90 days’ and 0 otherwise. Outreach activities to provide education to the community on maternal and child health. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: waiting\_Time\_BL | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Facility average waiting time in mins at baseline (and remaining static in model) = time since arrive until enters consultation room / receives a service (from exit survey – didn’t include delivery) – used as a proxy for facility reputation in the regression model. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(0,15) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Facility average waiting time in mins at baseline (and remaining static in model) = time since arrive until enters consultation room / receives a service (from exit survey – didn’t include delivery) – used as a proxy for facility reputation in the regression model. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: consultation\_Time\_BL | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Facility average consultation time in mins at baseline = (sum of all the values from from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility at baseline) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(0,15) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Facility average consultation time in mins at baseline = (sum of all the values from from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility at baseline) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: interpersonal\_Quality\_BL | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(0,6) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: anc\_quality | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: percentage (for 'experience') | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(1,100) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | percentage (for 'experience') | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: drugs\_avail | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: percentage drug availability (for 'experience') | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(1,100) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | percentage drug availability (for 'experience') | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: facility\_gifts | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: binary variable 1 if gifts offered to women delivering in the facility (like cloth/soap/tea/other useful things), 0 if no gifts offered (for 'experience') | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | binary variable 1 if gifts offered to women delivering in the facility (like cloth/soap/tea/other useful things), 0 if no gifts offered (for 'experience') | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: incentive\_TBA | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: BL provision of the incentives to the traditional birth attendants (TBAs) upon bringing women to deliver in the HF. Binary variable (1 if incentives given and 0 if not). | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | BL provision of the incentives to the traditional birth attendants (TBAs) upon bringing women to deliver in the HF. Binary variable (1 if incentives given and 0 if not). | | |  |  |  |
|  |  | | | | | |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Parameter: capacity\_limit | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Limit on number of patients that can deliver in the facility within timestep. This is the value where demand is so high (x-axis) that quality or consultation time or kindness (y-axis) becomes 0, i.e. how many patients can facility cope with before unable to accept more patients | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(3,6) | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Limit on number of patients that can deliver in the facility within timestep. This is the value where demand is so high (x-axis) that quality or consultation time or kindness (y-axis) becomes 0, i.e. how many patients can facility cope with before unable to accept more patients | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: rural | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: 1 if facility is in a rural area | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | 1 if facility is in a rural area | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: OOP | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: OOP Percentage | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(0,1) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | OOP Percentage | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: kindness | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: 1 if facility is in a rural area | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(0,1) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | 1 if facility is in a rural area | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: bl\_in\_facility\_birth\_rate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Starting rates of births at facility as read from the input data table | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Starting rates of births at facility as read from the input data table | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: sizeofCatchment | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Number of child bearing-aged women in catchment area of each facility based read from input file | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Number of child bearing-aged women in catchment area of each facility based read from input file | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: targetCalculation | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Baseline value used by the program to calculate the target in the first performance cycle | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Baseline value used by the program to calculate the target in the first performance cycle | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter: locMod | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: percentage (for 'experience') | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Array | false | | |  |  |  |
|  | Default value | uniform\_discr(1,100) | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Value editor | | | |  |  |  |
|  | Editor control | Text | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | percentage (for 'experience') | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: monthlyUpdate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Function body | | | |  |  |  |
|  | Body | //Add last month events to datasets all\_facility\_Complications.add(main.currentMonth+1,count\_of\_Complications); in\_facility\_Complications.add(main.currentMonth+1,count\_of\_Facility\_Complications); home\_Complications.add(main.currentMonth+1,count\_of\_Home\_Complications); miscarriage\_ds.add(main.currentMonth+1,count\_of\_Miscarriage); Home\_Births\_ds.add(main.currentMonth+1,count\_of\_Home\_Births); all\_births\_ds.add(main.currentMonth+1,count\_of\_Births); in\_Facility\_Births\_ds.add(main.currentMonth+1, count\_of\_in\_Facility\_Births); all\_bypassed\_to.add(main.currentMonth+1, count\_of\_Bypass\_to); all\_bypassed\_from.add(main.currentMonth+1, count\_of\_Bypass\_from); Facility\_OC\_Births\_ds.add(main.currentMonth+1, count\_of\_OC\_Births);  prop\_births\_in\_facility\_m[main.currentMonth+1] = count\_of\_in\_Facility\_Births/count\_of\_Births; Exp\_Kindness\_m[main.currentMonth+1] = Exp\_Kindness\_inMonth.mean(); Exp\_IPQ\_m[main.currentMonth+1] = Exp\_IPQ\_inMonth.mean(); consultation\_Time\_m[main.currentMonth+1] = Exp\_ConsTime\_inMonth.mean(); travelTime\_m[main.currentMonth+1] = Exp\_TravelTime\_inMonth.mean(); OOP\_m[main.currentMonth+1] = Exp\_OOP\_inMonth.mean();  //In case of few births births in year, take OOP from previous year since a single flip can cause major change in OOP  if(Exp\_OOP\_inMonth.count()<2) OOP\_m[main.currentMonth+1] = OOP\_m[main.currentMonth];   //The following code reads the characteristics from the previous year and assigns them to the next year (by default) //If there are affects due to a bonus or due to a manager visit, these will be changed in the a different function number\_staff\_m[main.currentMonth+1] = number\_staff\_m[main.currentMonth]; outreach\_m[main.currentMonth+1] = outreach\_m[main.currentMonth]; waiting\_Time\_m[main.currentMonth+1] = waiting\_Time\_m[main.currentMonth]; interpersonal\_Quality\_m[main.currentMonth+1] = interpersonal\_Quality\_m[main.currentMonth]; anc\_quality\_m[main.currentMonth+1] = anc\_quality\_m[main.currentMonth]; drugs\_avail\_m[main.currentMonth+1] = drugs\_avail\_m[main.currentMonth]; incentive\_TBA\_m[main.currentMonth+1] = incentive\_TBA\_m[main.currentMonth]; facility\_gifts\_m[main.currentMonth+1] = facility\_gifts\_m[main.currentMonth]; Kindness\_m[main.currentMonth+1] = Kindness\_m[main. | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | Name | Value | | |  |  |  |
|  |  | currentMonth]; bonus\_m[main.currentMonth+1] = bonus\_percentage;  capacity\_m[main.currentMonth+1] = capacity\_m[main.currentMonth];    //Update charts complications\_Chart.updateData(); home\_vs\_clinic\_chart.updateData(); performancePlot.updateData(); performancePlot1.updateData(); plot.updateData();   //Update Community Reports main.total\_Births\_m[main.currentMonth] += count\_of\_Births; main.total\_Home\_Births\_m[main.currentMonth] += count\_of\_Home\_Births; main.total\_Facility\_Births\_m[main.currentMonth] += count\_of\_in\_Facility\_Births; main.total\_Bypassing\_Births\_m[main.currentMonth] += count\_of\_Bypass\_to; main.total\_Miscarriages\_m[main.currentMonth] += count\_of\_Miscarriage; main.total\_Complications\_m[main.currentMonth] += count\_of\_Home\_Complications+count\_of\_Facility\_Complications; main.total\_Facility\_Refused\_m[main.currentMonth] += count\_of\_OC\_Births;  //Reset the counters count\_of\_Complications=0; count\_of\_Facility\_Complications=0; count\_of\_Home\_Complications=0; count\_of\_Miscarriage=0; count\_of\_Births=0; count\_of\_in\_Facility\_Births=0; count\_of\_Home\_Births=0; count\_of\_OC\_Births = 0; count\_of\_Bypass\_to = 0; count\_of\_Bypass\_from = 0; Exp\_Kindness\_inMonth.reset(); Exp\_IPQ\_inMonth.reset(); Exp\_ConsTime\_inMonth.reset(); Exp\_OOP\_inMonth.reset(); Exp\_TravelTime\_inMonth.reset();   if(main.P4P) {  //End of performance cycle?  if(arrayContains(main.PerformanceCycle,main.currentMonth)) send("endOfCycle", this);   //Payment due?  if(arrayContains(main.PaymentSchedule,main.currentMonth)){    //if(main.PaymentSchedule[perCycle] == main.PaymentEvents[perCycle]) send("onTimePayment", this);  send("bonusDue", this);   }    //if(bonus\_percentage\_6m[payCycle]== 0) send("noBonusEarned", this);     //Payment made?  if(arrayContains(main.PaymentEvents,main.currentMonth)) send("bonusPaid", this);  } /\* | | |  |  |  |
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|  | Name | | Value | | | |  |  |  |
|  |  |  | if(arrayContains(main.PaymentEvent,main.currentMonth)) {//Checks if there is a payment in this period  f\_bonusChanges(bonus\_percentage\_6m[main.bonusPeriod]);   //inDelay = false;  //bonus\_payment[main.currentMonth]=1; }   int m = main.currentMonth;  if(m>=main.PaymentSchedule[main.bonusPeriod] & m<main.PaymentEvents[main.bonusPeriod] & bonus\_percentage\_6m[max(0,main.bonusPeriod-1)] > 0){  //delayedPayment\_m[m] = 1;  //delayChanges();  } } \*/ | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Function: bonusFunction | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type | | double | | | |  |  |  |
|  | Return type: | | Returns value | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | if(indicatorVal >= targetVal) return 1;  if(targetVal == 0 & percentage\_deliveries\_thisfacility\_6mths[sixMonthCounter+1]>=0.85){  return 1; }  if(indicatorVal >= targetVal \* 0.75) return 0.5; else return 0; | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Arguments: | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | Type | |  |  |  |  |  |  |
|  | indicatorVal | double | |  |  |  |  |  |  |
|  | targetVal | double | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Function: setBLvalues | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type: | | Just action (returns nothing) | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | number\_staff\_6m[0] = number\_staff; outreach\_6m[0] = outreach; | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  | waiting\_Time\_6m[0] = waiting\_Time\_BL; consultation\_Time\_6m[0] = consultation\_Time\_BL; interpersonal\_Quality\_6m[0] = interpersonal\_Quality\_BL; anc\_quality\_6m[0] = anc\_quality; drugs\_avail\_6m[0] = drugs\_avail; incentive\_TBA\_6m[0] = incentive\_TBA; facility\_gifts\_6m[0] = facility\_gifts; capacity\_6m[0] = capacity\_limit; OOP\_6m[0] = OOP; Kindness\_6m[0] = kindness;  number\_staff\_m[0] = number\_staff; outreach\_m[0] = outreach; waiting\_Time\_m[0] = waiting\_Time\_BL; consultation\_Time\_m[0] = consultation\_Time\_BL; interpersonal\_Quality\_m[0] = interpersonal\_Quality\_BL; Exp\_IPQ\_m[0] = interpersonal\_Quality\_BL; anc\_quality\_m[0] = anc\_quality; drugs\_avail\_m[0] = drugs\_avail; incentive\_TBA\_m[0] = incentive\_TBA; facility\_gifts\_m[0] = facility\_gifts; capacity\_m[0] = capacity\_limit; OOP\_m[0] = OOP; Kindness\_m[0] = kindness; Exp\_Kindness\_m[0] = kindness;   prop\_births\_in\_facility\_m[0] = bl\_in\_facility\_birth\_rate; in\_Facility\_Births\_ds.add(0,bl\_in\_facility\_birth\_rate); Facility\_OC\_Births\_ds.add(0, 0); Home\_Births\_ds.add(0,1-bl\_in\_facility\_birth\_rate); all\_births\_ds.add(0,1); | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: delayChanges | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Function body | | | |  |  |  |
|  | Body | inDelay = true; delayedPayment\_m[main.currentMonth] = 1;  //Drugs are set to 0, and incentives and outreach are stopped drugs\_avail\_m[main.currentMonth] = max(0,drugs\_avail\_m[main.currentMonth]-10); incentive\_TBA\_m[main.currentMonth] = 0; outreach\_m[main.currentMonth] = 0;  int pp = preDelayPeriod; //back to evaluation period changes interpersonal\_Quality\_m[main.currentMonth] = min(0.6,interpersonal\_Quality\_m[main.currentMonth]-0.1); facility\_gifts\_m[main.currentMonth] = min(0,facility\_gifts\_m[pp]); OOP\_m[main.currentMonth] = min(1,OOP\_m[pp]+0.10); //Added max to pick it up from 0 //Post-Calibration Kindness\_m[main.currentMonth] = max(Kindness\_m[main.currentMonth]-1,5);//min(5,Kindness\_m[pp]); | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  | | | | | |  |
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|  |  |  |  |  |  |  |  |  |  |
|  | Function: StaffResponse | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type: | | Just action (returns nothing) | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | if(bonus\_percentage == 0.5){ interpersonal\_Quality\_m[main.currentMonth] = max(0.8,interpersonal\_Quality\_m[main.currentMonth-1]); Kindness\_m[main.currentMonth] = max(8,Kindness\_m[main.currentMonth-1]); }  if(bonus\_percentage == 1){ interpersonal\_Quality\_m[main.currentMonth] = 1; Kindness\_m[main.currentMonth] = 10; } | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Table Function: f\_targetTable | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Out of range behavior | | Error | | | |  |  |  |
|  | Interpolation | | Step | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Table data | | | | | |  |  |  |
|  | Load From Database | | false | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | public | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Table Data: | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Argument | Value | |  |  |  |  |  |  |
|  | 0.0 | 0.15 | |  |  |  |  |  |  |
|  | 0.2 | 0.1 | |  |  |  |  |  |  |
|  | 0.4 | 0.05 | |  |  |  |  |  |  |
|  | 0.7 | 0.05 | |  |  |  |  |  |  |
|  | 0.85 | 0.0 | |  |  |  |  |  |  |
|  | 1.0 | 0.0 | |  |  |  |  |  |  |
|  | 100.0 | 0.0 | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Variable: num\_new\_patients | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Description: number of new patients who have delivered in facility since baseline (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (b). New patients include those choosing to deliver in facility even if results in stillbirth during labour or neonatal death. | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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|  |  |  | Page 155 of | | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new patients who have delivered in facility since baseline (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (b). New patients include those choosing to deliver in facility even if results in stillbirth during labour or neonatal death. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: current\_count\_patients | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of patients delivering in the facility during that timestep | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients delivering in the facility during that timestep | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_Births | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new births (since baseline) among all women linked to this facility (in this catchment area), even if delivered in referred to facility/hospitals. Stillbirths during labour and neonatal deaths are also counted within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too). | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new births (since baseline) among all women linked to | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  |  | Page 156 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  | this facility (in this catchment area), even if delivered in referred to facility/hospitals. Stillbirths during labour and neonatal deaths are also counted within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too). | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_Complications | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new women (since baseline) with complications among all women linked to this facility (in this catchment area). | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new women (since baseline) with complications among all women linked to this facility (in this catchment area). | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_Facility\_Complications | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new women (since baseline) with complications who choose to deliver in this facility. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new women (since baseline) with complications who choose to deliver in this facility. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_Home\_Complications | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Number of women who deliver at home but have (unexpected) complications at the point of labour (e.g. needing Comprehensive Emergency Obstetric Care (CEmOC)), since baseline | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 157 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Number of women who deliver at home but have (unexpected) complications at the point of labour (e.g. needing Comprehensive Emergency Obstetric Care (CEmOC)), since baseline | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: X | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: X Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | X Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: Y | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Y Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Y Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: percentage\_deliveries\_thisfacility\_6mths | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Percentage of all births in catchment area that were facility deliveries in this facility during the 6 month period between bonus opportunities | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  | | | | |  |  |
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|  |  | Page 158 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Percentage of all births in catchment area that were facility deliveries in this facility during the 6 month period between bonus opportunities | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: target | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: target percentage of births that are in facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | target percentage of births that are in facility | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: indicator | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: used to compare to target for bonus | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | used to compare to target for bonus | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: bonus\_percentage | | | | |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 159 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Description: set to 1 if receive full bonus, 0.5 if receive 50% of bonus, 0 if receive no bonus | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | set to 1 if receive full bonus, 0.5 if receive 50% of bonus, 0 if receive no bonus | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: facility\_color | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: X Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | Color | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | X Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_Miscarriage | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new women (since baseline) with complications who choose to deliver in this facility. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new women (since baseline) with complications who choose to deliver in this facility. | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 160 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
|  |  | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_in\_Facility\_Births | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new births (since baseline) in this facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new births (since baseline) in this facility | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: sixMonthCounter | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_Births\_6mnths | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new births (since baseline) among all women linked to this facility (in this catchment area), even if delivered in referred to facility/hospitals. Stillbirths during labour and neonatal deaths are also counted within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too). | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new births (since baseline) among all women linked to this facility (in this catchment area), even if delivered in referred to facility/hospitals. Stillbirths during labour and neonatal deaths are also counted within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 161 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  | clearly a patient and so included in the numerator and so should be counted in denominator too). | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_in\_Facility\_Births\_6mnths | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new births (since baseline) in this facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new births (since baseline) in this facility | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: number\_staff\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of patients who delivered in the baseline (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients who delivered in the baseline (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: waiting\_Time\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Facility average waiting time in mins at baseline (and remaining static in model) = time since arrive until enters consultation room / receives a service (from exit survey – didn’t include delivery) – used as a proxy for facility reputation in the regression model. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Facility average waiting time in mins at baseline (and remaining static in model) = time since arrive until enters consultation room / receives a service (from exit survey – didn’t include delivery) – used as a proxy for facility reputation in the regression model. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: outreach\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Binary variable: 1 if facility conducted outreach service in last 90 days’ and 0 otherwise. Outreach activities to provide education to the community on maternal and child health. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Binary variable: 1 if facility conducted outreach service in last 90 days’ and 0 otherwise. Outreach activities to provide education to the community on maternal and child health. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: consultation\_Time\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Facility average consultation time in mins at baseline = (sum of all the values from from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Facility average consultation time in mins at baseline = (sum of all the values from from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility) | | |  |  |  |
|  |  | | | | | |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: interpersonal\_Quality\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Facility average interpersonal\_quality score at baseline = (sum of all the scores from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility). (f) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Facility average interpersonal\_quality score at baseline = (sum of all the scores from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility). (f) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: anc\_quality\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: percentage (for 'experience') | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | percentage (for 'experience') | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: drugs\_avail\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: percentage drug availability (for 'experience') | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | percentage drug availability (for 'experience') | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: incentive\_TBA\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: provision of the incentives to the traditional birth attendants (TBAs) upon bringing women to deliver in the HF. Binary variable (1 if incentives given and 0 if not) for each 6-month period | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | provision of the incentives to the traditional birth attendants (TBAs) upon bringing women to deliver in the HF. Binary variable (1 if incentives given and 0 if not) for each 6-month period | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: facility\_gifts\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: binary variable 1 if gifts offered to women delivering in the facility (like cloth/soap/tea/other useful things), 0 if no gifts offered (for 'experience') | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | binary variable 1 if gifts offered to women delivering in the facility (like cloth/soap/tea/other useful things), 0 if no gifts offered (for 'experience') | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: capacity\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: updates for capacity changes | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | updates for capacity changes | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: bonus\_percentage\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: A record of all the bonus payments received by the clinic | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | A record of all the bonus payments received by the clinic | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_Home\_Births | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new births (since baseline) in this facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new births (since baseline) in this facility | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_OC\_Births | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Count of births that would have happend at facility but facility is at capacity | | | | |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Count of births that would have happend at facility but facility is at capacity | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_OC\_Births\_6mnths | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Count of over-capacity births that would have been in facility - but is not because the facility is at capacity. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Count of over-capacity births that would have been in facility - but is not because the facility is at capacity. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_TBAreferred\_comp | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new women (since baseline) with complications who choose to deliver in this facility. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new women (since baseline) with complications who choose to deliver in this facility. | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: facility\_name | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | String | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: OOP\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: updates for OOP changes | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | updates for OOP changes | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: Kindness\_6m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: updates for kindness changes | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_6months+1] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | updates for kindness changes | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: number\_staff\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of patients who delivered in the baseline (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | | | |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients who delivered in the baseline (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: waiting\_Time\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Facility average waiting time in mins at baseline (and remaining static in model) = time since arrive until enters consultation room / receives a service (from exit survey – didn’t include delivery) – used as a proxy for facility reputation in the regression model. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Facility average waiting time in mins at baseline (and remaining static in model) = time since arrive until enters consultation room / receives a service (from exit survey – didn’t include delivery) – used as a proxy for facility reputation in the regression model. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: outreach\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Binary variable: 1 if facility conducted outreach service in last 90 days’ and 0 otherwise. Outreach activities to provide education to the community on maternal and child health. | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Binary variable: 1 if facility conducted outreach service in last 90 days’ and 0 otherwise. Outreach activities to provide education to the community on maternal and child health. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: consultation\_Time\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Facility average consultation time in mins at baseline = (sum of all the values from from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Facility average consultation time in mins at baseline = (sum of all the values from from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: interpersonal\_Quality\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Facility average interpersonal\_quality score at baseline = (sum of all the scores from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility). (f) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Facility average interpersonal\_quality score at baseline = (sum of all the scores from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility). (f) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: anc\_quality\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: percentage (for 'experience') | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | percentage (for 'experience') | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: drugs\_avail\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: percentage drug availability (for 'experience') | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | percentage drug availability (for 'experience') | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: incentive\_TBA\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: provision of the incentives to the traditional birth attendants (TBAs) upon bringing women to deliver in the HF. Binary variable (1 if incentives given and 0 if not) for each 6-month period | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | provision of the incentives to the traditional birth attendants (TBAs) upon bringing women to deliver in the HF. Binary variable (1 if incentives given and 0 if not) for each 6-month period | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 171 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: facility\_gifts\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: binary variable 1 if gifts offered to women delivering in the facility (like cloth/soap/tea/other useful things), 0 if no gifts offered (for 'experience') | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | binary variable 1 if gifts offered to women delivering in the facility (like cloth/soap/tea/other useful things), 0 if no gifts offered (for 'experience') | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: capacity\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: updates for capacity changes | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | updates for capacity changes | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: OOP\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: updates for OOP changes | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | updates for OOP changes | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: Kindness\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: updates for kindness changes | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | updates for kindness changes | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: prop\_births\_in\_facility\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Monthly percentage of births in a given facility compared to total births | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Monthly percentage of births in a given facility compared to total births | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: bonus\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: List of bonuses during every month of the simulation for the facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | List of bonuses during every month of the simulation for the facility | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: dm\_visit\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: list of 0 and 1 - where 1 indicates the district manager visited the facility during corresponding month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | list of 0 and 1 - where 1 indicates the district manager visited the facility during corresponding month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: preVisitIndicator | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: inVisitIndicator | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: preVisitIncrease | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: Exp\_Kindness\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: updates for kindness changes | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | updates for kindness changes | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: Exp\_IPQ\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Facility average interpersonal\_quality score at baseline = (sum of all the scores from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility). (f) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Facility average interpersonal\_quality score at baseline = (sum of all the scores from all patients who delivered at that facility at baseline)/(number of patients who delivered in that facility). (f) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: delayedPayment\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: list of 0 and 1 - where 1 indicates a payment was expected but not received during that month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | list of 0 and 1 - where 1 indicates a payment was expected but not received during that month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: inDelay | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  | | | | | |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: delayMitigated\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: list of 0 and 1 - where 1 indicates a payment was expected but not received during that month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | list of 0 and 1 - where 1 indicates a payment was expected but not received during that month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: travelTime\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: List of bonuses during every month of the simulation for the facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | List of bonuses during every month of the simulation for the facility | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: strategy\_shared\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: list of 0 and 1 - where 1 indicates the district manager visited the facility during corresponding month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | list of 0 and 1 - where 1 indicates the district manager visited the facility during corresponding month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: preVisKindness | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 10 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: preVisIPQ | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: bonus\_payment | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: list of 0 and 1 - where 1 indicates a payment was expected but not received during that month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | list of 0 and 1 - where 1 indicates a payment was expected but not received during that month | | |  |  |  |
|  |  | | | | | |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: prevBonus | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: perCycle | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: payCycle | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: paymentmade | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | false | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: preDelayPeriod | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: changePeriod | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: basePeriod | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: counter1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: counter2 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: newBonus | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: counter3 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  | | | | | |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: counter4 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: DelayinMonths | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Current months of delay | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Current months of delay | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: delayMitigatedCounter | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: strategySharingCounter | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 182 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: BonusInAccount | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: drugsShared\_m | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: list of 0 and 1 - where 1 indicates a payment was expected but not received during that month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.sim\_dur\_months+2] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | list of 0 and 1 - where 1 indicates a payment was expected but not received during that month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: drugsShared | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
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|  |  | Page 183 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: gisX | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: X Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | X Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: gisY | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Y Coordinate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Y Coordinate | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_Bypass\_to | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new births (since baseline) among all women linked to this facility (in this catchment area), even if delivered in referred to facility/hospitals. Stillbirths during labour and neonatal deaths are also counted within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too). | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 184 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new births (since baseline) among all women linked to this facility (in this catchment area), even if delivered in referred to facility/hospitals. Stillbirths during labour and neonatal deaths are also counted within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too). | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: count\_of\_Bypass\_from | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of new births (since baseline) among all women linked to this facility (in this catchment area), even if delivered in referred to facility/hospitals. Stillbirths during labour and neonatal deaths are also counted within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too). | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of new births (since baseline) among all women linked to this facility (in this catchment area), even if delivered in referred to facility/hospitals. Stillbirths during labour and neonatal deaths are also counted within 'births' count so that percentage calculation for the percentage\_facility\_deliveries makes sense since the woman is clearly a patient and so included in the numerator and so should be counted in denominator too). | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: capacityExpanded | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  | | | | | |  |
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|  |  | Page 185 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Collection: catchmentArea | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Element class | Woman | | |  |  |  |
|  | Collection class | ArrayList | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Collection: inClinic | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Element class | Woman | | |  |  |  |
|  | Collection class | ArrayList | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Plot: performancePlot | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | false | | |  |  |  |
|  | Dataset Samples To Keep | 100 | | |  |  |  |
|  | Scale | | | |  |  |  |
|  | Horizontal scale | Fixed | | |  |  |  |
|  | Chart Horizontal Scale: From | 0 | | |  |  |  |
|  | Chart Horizontal Scale: To | main.sim\_dur\_months+1 | | |  |  |  |
|  | Vertical scale | Fixed | | |  |  |  |
|  | Chart Vertical Scale: From | 0 | | |  |  |  |
|  | Chart Vertical Scale: To | 100 | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Labels horizontal position | DEFAULT | | |  |  |  |
|  | Labels vertical position | DEFAULT | | |  |  |  |
|  | Labels Text Color | darkGray | | |  |  |  |
|  | Chart Area Grid Color | darkGray | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 260.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 180.0 | | | | | |  |  |  |  |  |  |
|  | y | | | -30.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 60.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 100.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 10.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 20.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | Dataset Title | value | main.currentMonth | | round(((main.currentMonth>0) ? prop\_births\_in\_facility\_m[main.currentMonth-1]: bl\_in\_facility\_birth\_rate)\*100) | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: performancePlot1 | | | | | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | false | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 100 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Horizontal Scale: To | | | main.sim\_dur\_months+1 | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 1 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 260.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 180.0 | | | | | |  |  |  |  |  |  |
|  | y | | | 15.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 65.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 100.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 10.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 25.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | Dataset Title | value | main.currentMonth | | (main.currentMonth>0) ? interpersonal\_Quality\_m[main.currentMonth-1]: interpersonal\_Quality\_m[0] | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot1 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 1000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Auto | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 10 | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 0.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 280.0 | | | | | |  |  |  |  |  |  |
|  | y | | | 190.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 130.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 200.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 70.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | KindnessChart | value | main.currentMonth | | Kindness\_m[main.currentMonth] | CIRCLE | | goldenRod | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot2 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 1000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Auto | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 100 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 0.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 280.0 | | | | | |  |  |  |  |  |  |
|  | y | | | 310.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 130.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 200.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 70.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | DrugChart | value | main.currentMonth | | drugs\_avail\_m[main.currentMonth] | CIRCLE | | blue | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot3 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 1000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Auto | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 1 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
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|  |  |  |  | Page 190 of | | | 265 | |  |  |  |  |  |  |  |

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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 0.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 280.0 | | | | | |  |  |  |  |  |  |
|  | y | | | 440.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 130.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 200.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 70.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | IPQChart | value | main.currentMonth | | interpersonal\_Quality\_m[main.currentMonth] | CIRCLE | | silver | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot4 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 1000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Auto | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 1 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 0.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 280.0 | | | | | |  |  |  |  |  |  |
|  | y | | | 560.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 130.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 200.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 70.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | DMVisits | value | main.currentMonth | | dm\_visit\_m[main.currentMonth] | CIRCLE | | green | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot5 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 1000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Auto | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 1 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | x | | | 0.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 280.0 | | | | | |  |  |  |  |  |  |
|  | y | | | 690.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 130.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 200.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 70.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | DMVisits | value | main.currentMonth | | delayedPayment\_m[max(0,main.currentMonth-1)] | CIRCLE | | red | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Plot: plot6 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 1000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Auto | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 1 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 0.0 | | | | | |  |  |  |  |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Width | | | 280.0 | | | | | |  |  |  |  |  |  |
|  | y | | | 820.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 130.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 200.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 70.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | DMVisits | value | main.currentMonth | | delayMitigated\_m[main.currentMonth] | CIRCLE | | gold | | | true | 1.0 | LINEAR |  |  |
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|  | Plot: plot7 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 1000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Auto | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 1 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 0.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 280.0 | | | | | |  |  |  |  |  |  |
|  | y | | | 950.0 | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Height | | | 130.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 200.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 70.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | DMVisits | value | main.currentMonth | | bonus\_payment[max(main.currentMonth-1,1)] | CIRCLE | | yellowGreen | | | true | 1.0 | LINEAR |  |  |
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|  | Plot: plot8 | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | true | | | | | |  |  |  |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | | | - Recurring Event Properties | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 1000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Horizontal scale | | | Auto | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Auto | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 0.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 280.0 | | | | | |  |  |  |  |  |  |
|  | y | | | 1080.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 130.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Width | | | 200.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Height | | | 70.0 | | | | | |  |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | | |  |
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|  |  |  | Dataset | | |  | |  | | |  |  |  |  |  |
|  | Title | Type | X Axis Value | | Y Axis Value | Point Style | | Color | | | Line | Width | Interpolation |  |  |
|  | DMVisits | value | main.currentMonth | | capacity\_m[max(main.currentMonth-1,1)] | CIRCLE | | yellowGreen | | | true | 1.0 | LINEAR |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Time Plot: plot | | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |  |
|  | Analysis auto update | | | false | | | | | |  |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 5000 | | | | | |  |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |  |
|  | Time window | | | main.sim\_dur\_months | | | | | |  |  |  |  |  |  |
|  | Time | | | months | | | | | |  |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: From | | | 0 | | | | | |  |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | 1 | | | | | |  |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |  |
|  | Label format | | | MM | | | | | |  |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |  |
|  | Draw line | | | true | | | | | |  |  |  |  |  |  |
|  | Fill area under line | | | false | | | | | |  |  |  |  |  |  |
|  | Interpolation | | | Linear | | | | | |  |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |  |
|  | x | | | 90.0 | | | | | |  |  |  |  |  |  |
|  | Width | | | 180.0 | | | | | |  |  |  |  |  |  |
|  | y | | | -60.0 | | | | | |  |  |  |  |  |  |
|  | Height | | | 150.0 | | | | | |  |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |  |
|  | Show legend | | | false | | | | | |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | | |  |  |
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|  | Name | | | Value | | | | | |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |
|  | Chart Area: X Offset | | | 50.0 | | | | | |  |  |  |  |  |
|  | Chart Area: Width | | | 100.0 | | | | | |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | | |  |  |  |  |  |
|  | Chart Area: Height | | | 80.0 | | | | | |  |  |  |  |  |
|  | Chart Area: Background Color | | | white | | | | | |  |  |  |  |  |
|  | Chart area border color | | | black | | | | | |  |  |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |  |  |
|  | Time window moves | | | Continuously | | | | | |  |  |  |  |  |
|  | Show name | | | false | | | | | |  |  |  |  |  |
|  | Logging | | | true | | | | | |  |  |  |  |  |
|  | Plot Items: | | | | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Title | Type | Dataset / Value | | Point Style | | Color | | Line | Width | Interpolation |  |  |  |
|  | Dataset Title | value |  | | NONE | | black | | true | 1.0 | LINEAR |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Time Stack Chart: complications\_Chart | | | | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | | Value | | | | | |  |  |  |  |  |
|  | General | | | | | | | | |  |  |  |  |  |
|  | Lock | | | false | | | | | |  |  |  |  |  |
|  | Public | | | false | | | | | |  |  |  |  |  |
|  | Data update | | | | | | | | |  |  |  |  |  |
|  | Analysis auto update | | | false | | | | | |  |  |  |  |  |
|  | Dataset Samples To Keep | | | 61 | | | | | |  |  |  |  |  |
|  | Scale | | | | | | | | |  |  |  |  |  |
|  | Time window | | | main.sim\_dur\_years | | | | | |  |  |  |  |  |
|  | Time | | | years | | | | | |  |  |  |  |  |
|  | Vertical scale | | | Fixed | | | | | |  |  |  |  |  |
|  | Chart Vertical Scale: To | | | main.comp\_Scale | | | | | |  |  |  |  |  |
|  | Appearance | | | | | | | | |  |  |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | | |  |  |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | | |  |  |  |  |  |
|  | Label format | | | yyyy | | | | | |  |  |  |  |  |
|  | Labels Text Color | | | darkGray | | | | | |  |  |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | | |  |  |  |  |  |
|  | Position and size | | | | | | | | |  |  |  |  |  |
|  | x | | | 750.0 | | | | | |  |  |  |  |  |
|  | Width | | | 170.0 | | | | | |  |  |  |  |  |
|  | y | | | -60.0 | | | | | |  |  |  |  |  |
|  | Height | | | 140.0 | | | | | |  |  |  |  |  |
|  | Legend | | | | | | | | |  |  |  |  |  |
|  | Show legend | | | true | | | | | |  |  |  |  |  |
|  | Legend size | | | 30.0 | | | | | |  |  |  |  |  |
|  | Legend text color | | | black | | | | | |  |  |  |  |  |
|  | Chart area | | | | | | | | |  |  |  |  |  |
|  | Chart Area: X Offset | | | 0.0 | | | | | |  |  |  |  |  |
|  | Chart Area: Width | | | 130.0 | | | | | |  |  |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | | |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | |  |  |
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|  | Name | | | Value | | | | |  |  |  |
|  | Chart Area: Height | | | 80.0 | | | | |  |  |  |
|  | Chart Area: Background Color | | | white | | | | |  |  |  |
|  | Chart area border color | | | black | | | | |  |  |  |
|  | Advanced | | | | | | | |  |  |  |
|  | Time window moves | | | Continuously | | | | |  |  |  |
|  | Show name | | | false | | | | |  |  |  |
|  | Logging | | | true | | | | |  |  |  |
|  | Plot Items: | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Title | Type | Dataset / Value | | Color | | |  |  |  |  |
|  | In Clinic Comp. | value | count\_of\_Facility\_Complications | | gold | | |  |  |  |  |
|  | At Home Comp. | value | count\_of\_Home\_Complications | | yellow | | |  |  |  |  |
|  | Miscarriages | value | count\_of\_Miscarriage | | salmon | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Time Stack Chart: home\_vs\_clinic\_chart | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | | Value | | | | |  |  |  |
|  | General | | | | | | | |  |  |  |
|  | Lock | | | false | | | | |  |  |  |
|  | Public | | | false | | | | |  |  |  |
|  | Data update | | | | | | | |  |  |  |
|  | Analysis auto update | | | false | | | | |  |  |  |
|  | Dataset Samples To Keep | | | 61 | | | | |  |  |  |
|  | Scale | | | | | | | |  |  |  |
|  | Time window | | | main.sim\_dur\_years | | | | |  |  |  |
|  | Time | | | years | | | | |  |  |  |
|  | Vertical scale | | | Fixed | | | | |  |  |  |
|  | Chart Vertical Scale: To | | | main.home\_fac\_Scale | | | | |  |  |  |
|  | Appearance | | | | | | | |  |  |  |
|  | Labels horizontal position | | | DEFAULT | | | | |  |  |  |
|  | Labels vertical position | | | DEFAULT | | | | |  |  |  |
|  | Label format | | | yyyy | | | | |  |  |  |
|  | Labels Text Color | | | darkGray | | | | |  |  |  |
|  | Chart Area Grid Color | | | darkGray | | | | |  |  |  |
|  | Position and size | | | | | | | |  |  |  |
|  | x | | | 500.0 | | | | |  |  |  |
|  | Width | | | 170.0 | | | | |  |  |  |
|  | y | | | -60.0 | | | | |  |  |  |
|  | Height | | | 140.0 | | | | |  |  |  |
|  | Legend | | | | | | | |  |  |  |
|  | Show legend | | | true | | | | |  |  |  |
|  | Legend size | | | 30.0 | | | | |  |  |  |
|  | Legend text color | | | black | | | | |  |  |  |
|  | Chart area | | | | | | | |  |  |  |
|  | Chart Area: X Offset | | | 0.0 | | | | |  |  |  |
|  | Chart Area: Width | | | 130.0 | | | | |  |  |  |
|  | Chart Area: Y Offset | | | 30.0 | | | | |  |  |  |
|  | Chart Area: Height | | | 80.0 | | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | |  |  |
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|  | Name | | | Value | | | | |  |  |  |
|  | Chart Area: Background Color | | | white | | | | |  |  |  |
|  | Chart area border color | | | black | | | | |  |  |  |
|  | Advanced | | | | | | | |  |  |  |
|  | Time window moves | | | As data becomes available | | | | |  |  |  |
|  | Show name | | | false | | | | |  |  |  |
|  | Logging | | | true | | | | |  |  |  |
|  | Plot Items: | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Title | Type | Dataset / Value | | Color | | |  |  |  |  |
|  | At Home | value | max(0,count\_of\_Births-count\_of\_in\_Facility\_Births) | | oldLace | | |  |  |  |  |
|  | Bypassed From Here | value | count\_of\_Bypass\_from | | lightSalmon | | |  |  |  |  |
|  | At Clinic | value | count\_of\_in\_Facility\_Births | | yellowGreen | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Data Set: all\_facility\_Complications | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | | Value | | | | |  |  |  |
|  | General | | | | | | | |  |  |  |
|  | Dataset Samples To Keep | | | 104 | | | | |  |  |  |
|  | Axis Data Vertical Y Axis | | | count\_of\_Complications | | | | |  |  |  |
|  | Axis Data Horizontal X Axis | | | main.currentMonth | | | | |  |  |  |
|  | Axis Data Freeze X Axis | | | false | | | | |  |  |  |
|  | Show at runtime | | | true | | | | |  |  |  |
|  | Show name | | | true | | | | |  |  |  |
|  | Data update | | | | | | | |  |  |  |
|  | Analysis auto update | | | false | | | | |  |  |  |
|  | Logging | | | true | | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Data Set: in\_facility\_Complications | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | | Value | | | | |  |  |  |
|  | General | | | | | | | |  |  |  |
|  | Dataset Samples To Keep | | | 104 | | | | |  |  |  |
|  | Axis Data Vertical Y Axis | | | count\_of\_Facility\_Complications | | | | |  |  |  |
|  | Axis Data Horizontal X Axis | | | main.currentMonth | | | | |  |  |  |
|  | Axis Data Freeze X Axis | | | false | | | | |  |  |  |
|  | Show at runtime | | | true | | | | |  |  |  |
|  | Show name | | | true | | | | |  |  |  |
|  | Data update | | | | | | | |  |  |  |
|  | Analysis auto update | | | false | | | | |  |  |  |
|  | Logging | | | true | | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Data Set: home\_Complications | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | | Value | | | | |  |  |  |
|  | General | | | | | | | |  |  |  |
|  | Dataset Samples To Keep | | | 104 | | | | |  |  |  |
|  | Axis Data Vertical Y Axis | | | count\_of\_Home\_Complications | | | | |  |  |  |
|  | Axis Data Horizontal X Axis | | | main.currentMonth | | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Axis Data Freeze X Axis | false | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | false | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Data Set: miscarriage\_ds | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dataset Samples To Keep | 104 | | |  |  |  |
|  | Axis Data Vertical Y Axis | count\_of\_Miscarriage | | |  |  |  |
|  | Axis Data Horizontal X Axis | main.currentMonth | | |  |  |  |
|  | Axis Data Freeze X Axis | false | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | false | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Data Set: all\_births\_ds | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dataset Samples To Keep | 104 | | |  |  |  |
|  | Axis Data Vertical Y Axis | count\_of\_Births | | |  |  |  |
|  | Axis Data Horizontal X Axis | main.currentMonth | | |  |  |  |
|  | Axis Data Freeze X Axis | false | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | false | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Data Set: in\_Facility\_Births\_ds | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dataset Samples To Keep | 104 | | |  |  |  |
|  | Axis Data Vertical Y Axis | count\_of\_in\_Facility\_Births | | |  |  |  |
|  | Axis Data Horizontal X Axis | main.currentMonth | | |  |  |  |
|  | Axis Data Freeze X Axis | false | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | false | | |  |  |  |
|  | Logging | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Data Set: Home\_Births\_ds | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dataset Samples To Keep | 104 | | |  |  |  |
|  | Axis Data Vertical Y Axis | count\_of\_Home\_Births | | |  |  |  |
|  | Axis Data Horizontal X Axis | main.currentMonth | | |  |  |  |
|  | Axis Data Freeze X Axis | false | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | false | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Data Set: Facility\_OC\_Births\_ds | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dataset Samples To Keep | 104 | | |  |  |  |
|  | Axis Data Vertical Y Axis | count\_of\_OC\_Births | | |  |  |  |
|  | Axis Data Horizontal X Axis | main.currentMonth | | |  |  |  |
|  | Axis Data Freeze X Axis | false | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | false | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Statistics: Exp\_Kindness\_inMonth | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: An statistic keeping track of the occupancy-adjusted kindness for each birth during each month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Discrete | true | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | true | | |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | An statistic keeping track of the occupancy-adjusted kindness for each birth during each month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Statistics: Exp\_IPQ\_inMonth | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: An statistic keeping track of the occupancy-adjusted Interpersonal for each birth during each month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Discrete | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | true | | |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | An statistic keeping track of the occupancy-adjusted Interpersonal for each birth during each month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Statistics: Exp\_ConsTime\_inMonth | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: An statistic keeping track of the occupancy-adjusted consultation time for each birth during each month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Discrete | true | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | true | | |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | An statistic keeping track of the occupancy-adjusted consultation time for each birth during each month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Statistics: Exp\_OOP\_inMonth | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: An statistic keeping track of the occupancy-adjusted consultation time for each birth during each month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Discrete | true | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | true | | |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | An statistic keeping track of the occupancy-adjusted consultation time for each birth during each month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Statistics: Exp\_TravelTime\_inMonth | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: An statistic keeping track of the occupancy-adjusted consultation time for each birth during each month | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Discrete | true | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 202 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | ANALYSIS\_UPDATE\_TIME\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | An statistic keeping track of the occupancy-adjusted consultation time for each birth during each month | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Data Set: all\_bypassed\_to | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dataset Samples To Keep | 104 | | |  |  |  |
|  | Axis Data Vertical Y Axis | count\_of\_Bypass\_to | | |  |  |  |
|  | Axis Data Horizontal X Axis | main.currentMonth | | |  |  |  |
|  | Axis Data Freeze X Axis | false | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | false | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Data Set: all\_bypassed\_from | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dataset Samples To Keep | 104 | | |  |  |  |
|  | Axis Data Vertical Y Axis | count\_of\_Bypass\_from | | |  |  |  |
|  | Axis Data Horizontal X Axis | main.currentMonth | | |  |  |  |
|  | Axis Data Freeze X Axis | false | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Data update | | | |  |  |  |
|  | Analysis auto update | false | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle9 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | white | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 970.0 | | |  |  |  |
|  | Width | 510.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | y | 430.0 | | |  |  |  |
|  | Height | 340.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle8 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | white | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 650.0 | | |  |  |  |
|  | Width | 310.0 | | |  |  |  |
|  | y | 100.0 | | |  |  |  |
|  | Height | 670.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle5 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | white | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 310.0 | | |  |  |  |
|  | Width | 330.0 | | |  |  |  |
|  | y | 100.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Height | 360.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle7 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | linen | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 310.0 | | |  |  |  |
|  | Width | 1210.0 | | |  |  |  |
|  | y | 780.0 | | |  |  |  |
|  | Height | 420.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle6 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | whiteSmoke | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 310.0 | | |  |  |  |
|  | Width | 330.0 | | |  |  |  |
|  | y | 470.0 | | |  |  |  |
|  | Height | 300.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | white | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -70.0 | | |  |  |  |
|  | Width | 1030.0 | | |  |  |  |
|  | y | -120.0 | | |  |  |  |
|  | Height | 200.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle4 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | new Color(224, 245, 245) | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  | Width | 300.0 | | |  |  |  |
|  | y | 100.0 | | |  |  |  |
|  | Height | 1100.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Bonus-Related Metrics | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 980.0 | | |  |  |  |
|  | y | 470.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | white | | |  |  |  |
|  | Dynamic: Fill Color | facility\_color | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -30.0 | | |  |  |  |
|  | Width | 62.0 | | |  |  |  |
|  | y | 22.0 | | |  |  |  |
|  | Height | 6.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Evolving Characteristics | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -390.0 | | |  |  |  |
|  | y | 200.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: bonus\_text | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | bonus\_percentage>0 | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | $ | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Dynamic: Color | (bonus\_percentage>0.5)? black:gray | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 15.0 | | |  |  |  |
|  | y | -2.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Text: text3 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Bonus Calculation & | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 980.0 | | |  |  |  |
|  | y | 440.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Line: line | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | dotted | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 161.0 | | |  |  |  |
|  | dX | 0.0 | | |  |  |  |
|  | y | 50.0 | | |  |  |  |
|  | dY | -80.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | dZ | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Line: line5 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | dotted | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 527.0 | | |  |  |  |
|  | dX | 0.0 | | |  |  |  |
|  | y | 51.0 | | |  |  |  |
|  | dY | -80.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | dZ | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Line: line8 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | dotted | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 776.0 | | |  |  |  |
|  | dX | 0.0 | | |  |  |  |
|  | y | 51.0 | | |  |  |  |
|  | dY | -80.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | dZ | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text4 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Baseline Characteristics | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 320.0 | | |  |  |  |
|  | y | 110.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text2 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | text | | |  |  |  |
|  | Dynamic: Text | facility\_name | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  | y | -20.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text17 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Monthly Characteristics | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 660.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | y | 110.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: Performance | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Dynamic: Text | round(((main.currentMonth>0) ? prop\_births\_in\_facility\_m[main.currentMonth-1]: bl\_in\_facility\_birth\_rate)\*100) +"%" | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 395.0 | | |  |  |  |
|  | y | -35.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text18 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Active Counters | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 320.0 | | |  |  |  |
|  | y | 490.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
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|  | Text: text20 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | In-Facility Birth Rate | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 300.0 | | |  |  |  |
|  | y | -35.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Image: image1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | inVisitIndicator | | |  |  |  |
|  | Show at runtime | false | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 25.0 | | |  |  |  |
|  | Width | 9.258960573476704 | | |  |  |  |
|  | y | 0.0 | | |  |  |  |
|  | Height | 10.289469611747135 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text21 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | DM Visit Effects | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1290.0 | | |  |  |  |
|  | y | 470.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Image: image3 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Visible | inDelay | | |  |  |  |
|  | Show at runtime | false | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 37.0 | | |  |  |  |
|  | Width | 5.0 | | |  |  |  |
|  | y | 0.0 | | |  |  |  |
|  | Height | 8.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text5 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Kindness | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 140.0 | | |  |  |  |
|  | y | 200.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text6 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Drug Availability | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 140.0 | | |  |  |  |
|  | y | 320.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text8 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Interpersonal Quality | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 150.0 | | |  |  |  |
|  | y | 450.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text9 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | DM Visits | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 130.0 | | |  |  |  |
|  | y | 570.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text10 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Facility Characteristics  & Events | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 20.0 | | |  |  |  |
|  | y | 110.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text12 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Payment Delay | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 140.0 | | |  |  |  |
|  | y | 700.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text13 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Delay Effects Mitigated | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 140.0 | | |  |  |  |
|  | y | 830.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text14 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Bonus Processed | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 140.0 | | |  |  |  |
|  | y | 960.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text7 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Main Visualization Items | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -60.0 | | |  |  |  |
|  | y | -110.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text11 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Items in this box are positioned to appear in the main agent to visualize all agent attributes | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | -60.0 | | |  |  |  |
|  | y | -90.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text15 | | | | |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Over Time | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 20.0 | | |  |  |  |
|  | y | 160.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text16 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Performance Cycle | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 380.0 | | |  |  |  |
|  | y | 850.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text19 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Bonus Payment Cycle | | |  |  |  |
|  | Appearance | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 750.0 | | |  |  |  |
|  | y | 790.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text22 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | DM Visit Cycle | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1330.0 | | |  |  |  |
|  | y | 800.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text23 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Operational Cycles | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 330.0 | | |  |  |  |
|  | y | 800.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text24 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Facility Complication Status | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 760.0 | | |  |  |  |
|  | y | -60.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text25 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Location of Deliveries | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 510.0 | | |  |  |  |
|  | y | -60.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text26 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Bonus Earned | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 140.0 | | |  |  |  |
|  | y | -60.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text40 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Performance | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 310.0 | | |  |  |  |
|  | y | -60.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Rectangle: rectangle2 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Embedded icon | false | | |  |  |  |
|  | Public | true | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Fill color | gray | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Line color | black | | |  |  |  |
|  | Line width | 1.0 | | |  |  |  |
|  | Line style | solid | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  | Width | 10.0 | | |  |  |  |
|  | y | 0.0 | | |  |  |  |
|  | Height | 10.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Z-Height | 10.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D and 3D | | |  |  |  |
|  | On click | \_origin\_VA.navigateTo(); | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text27 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Capacity | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 140.0 | | |  |  |  |
|  | y | 1090.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show in | 2D only | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Link to agents: connections | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Communication | | | |  |  |  |
|  | Message type | Object | | |  |  |  |
|  | Animation | | | |  |  |  |
|  | Draw line | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 223 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Agent Type: Manager | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Agent in flowcharts | | | |  |  |  |
|  | Use in flowcharts as | Agent | | |  |  |  |
|  | Dimensions and movement | | | |  |  |  |
|  | Speed | (10 : MPS) | | |  |  |  |
|  | Rotate animation towards movement | true | | |  |  |  |
|  | Rotate vertically as well (along Z-axis) | false | | |  |  |  |
|  | Space and network | | | |  |  |  |
|  | Space Type | Continuous | | |  |  |  |
|  | Advanced Java | | | |  |  |  |
|  | Generic | false | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Logging | true | | |  |  |  |
|  | Auto-create datasets | true | | |  |  |  |
|  | AOC\_DATASETS\_UPDATE\_TIME\_PROPERTIES | - Recurring Event Properties | | |  |  |  |
|  | Limit the number of data samples | false | | |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Scale: scale | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Unit | meters | | |  |  |  |
|  | Scale | 10.0 | | |  |  |  |
|  | Type | Defined graphically | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Length, pixels | 100.0 | | |  |  |  |
|  | Show at runtime | false | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Public | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 0.0 | | |  |  |  |
|  | y | -150.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: selectFacilityToVisit | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: checkPerformance | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: BREAKS\_IF no births in a year (cannot divide by 0) for any given facility | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Function body | | | |  |  |  |
|  | Body | for( int i=0; i<main.num\_of\_facilities; i++ ) {  Facility f = main.facilities.get(i);  drugAvailability[i] = f.drugs\_avail\_m[main.currentMonth];  if(f.all\_births\_ds.getY(main.currentMonth)>0){ //ensure no division by 0  prop\_in\_facility\_births[i] = f.in\_Facility\_Births\_ds.getY(main.currentMonth)/f.all\_births\_ds.getY(main.currentMonth);  } else prop\_in\_facility\_births[i] = 0;    performanceScore[i] = prop\_in\_facility\_births[i];  }  highestDrug = indexOfMax(drugAvailability); lowestDrug = indexOfMin(drugAvailability);  orderedFacilitiesList.remove(main.facilities.get(indexOfMin(performanceScore))); orderedFacilitiesList.addFirst(main.facilities.get(indexOfMin(performanceScore)));  orderedFacilitiesList.remove(main.facilities.get(indexOfMax(performanceScore))); orderedFacilitiesList.addLast(main.facilities.get(indexOfMax(performanceScore)));   best\_Outreach = orderedFacilitiesList.get(2).outreach\_m[main.currentMonth]; best\_Kindness = orderedFacilitiesList.get(2).Kindness\_m[main.currentMonth]; | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 225 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | | | |  |  |
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|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  |  |  | best\_TBAincentives = orderedFacilitiesList.get(2).incentive\_TBA\_m[main.currentMonth]; | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Description | | | | | |  |  |  |
|  | Description | | BREAKS\_IF no births in a year (cannot divide by 0) for any given facility | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Function: shareStrategy | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Return type: | | Just action (returns nothing) | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Function body | | | | | |  |  |  |
|  | Body | | //reference best performing, probabilistically apply their TBA, outreaach, and gift strategy //Also depends on bonus  fac.strategy\_shared\_m[main.currentMonth] = 1;  fac.outreach\_m[main.currentMonth] = best\_Outreach; fac.Exp\_Kindness\_m[main.currentMonth] = best\_Kindness; fac.incentive\_TBA\_m[main.currentMonth] = best\_TBAincentives;   //Best practices will be the current best performers  //A2 - Strategy Learning | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | default | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  | Arguments: | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | Type | |  |  |  |  |  |  |
|  | fac | Facility | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Variable: facilityVisited | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | |  |  |  |
|  | General | | | | | |  |  |  |
|  | Type | | Facility | | | |  |  |  |
|  | Show at runtime | | true | | | |  |  |  |
|  | Show name | | true | | | |  |  |  |
|  | Advanced | | | | | |  |  |  |
|  | Access type | | public | | | |  |  |  |
|  | Constant | | false | | | |  |  |  |
|  | Save in snapshot | | true | | | |  |  |  |
|  | System dynamics units | | false | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Variable: last\_visitTimes | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | Description: number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.facilities.size()] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: prop\_in\_facility\_births | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.num\_of\_facilities] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: performanceScore | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.facilities.size()] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: best\_Outreach | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: best\_Kindness | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: best\_TBAincentives | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: drugAvailability | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | | | |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | new double[main.facilities.size()] | | |  |  |  |
|  | Type | double[] | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: highestDrug | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: lowestDrug | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 0 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | number of patients who delivered every 6 months (where women who deliver in a facility are termed "patients", although remain in "women" agentset). (a) | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Collection: orderedFacilitiesList | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Description: Ordered list of facilities from worst performing to better performing. The worst performing are on top of the list | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Element class | Facility | | |  |  |  |
|  | Collection class | LinkedList | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | Description | | | |  |  |  |
|  | Description | Ordered list of facilities from worst performing to better performing. The worst performing are on top of the list | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Collection: FacilitiesPlannedVisit | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Initial contents | {} | | |  |  |  |
|  | Element class | Facility | | |  |  |  |
|  | Collection class | ArrayList | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Link to agents: connections | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Communication | | | |  |  |  |
|  | Message type | Object | | |  |  |  |
|  | Animation | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 230 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Draw line | false | | |  |  |  |
|  |  | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Simulation Experiment: Simulation | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Bypass Initial Simulation Screen | true | | |  |  |  |
|  | Maximum available memory | 512 | | |  |  |  |
|  | Agent type | Main | | |  |  |  |
|  | Model time | | | |  |  |  |
|  | Execution mode | Real time with scale | | |  |  |  |
|  | Real time scale | 100.0 | | |  |  |  |
|  | Stop option | Stop at specified date | | |  |  |  |
|  | Initial time | 0.0 | | |  |  |  |
|  | Initial date | Sun Jan 01 00:00:00 GMT 2012 | | |  |  |  |
|  | Final date | Fri Jan 01 00:00:00 GMT 2016 | | |  |  |  |
|  | Randomness | | | |  |  |  |
|  | Random Number Generation Type | Random seed (unique simulation runs) | | |  |  |  |
|  | Window | | | |  |  |  |
|  | Title | COSMIC-ABM : Simulation | | |  |  |  |
|  | Enable zoom and panning | true | | |  |  |  |
|  | Enable developer panel | true | | |  |  |  |
|  | Show developer panel on start | false | | |  |  |  |
|  | Java actions | | | |  |  |  |
|  | After simulation run | months = root.sim\_dur\_months; facilities = root.num\_of\_facilities;  double[][] num\_preg = new double[months][facilities]; double[][] in\_fac = new double[months][facilities]; double[][] delays = new double[months][facilities]; double[][] dm\_visit = new double[months][facilities]; double[][] delayMit = new double[months][facilities]; double[][] implementedSharedStrategy = new double[months][facilities]; double[][] outreach = new double[months][facilities]; double[][] drug = new double[months][facilities]; double[][] TBA = new double[months][facilities]; double[][] gifts = new double[months][facilities]; double[][] bonus = new double[months][facilities]; double[][] kindness = new double[months][facilities]; double[][] expkindness = new double[months][facilities]; double[][] consTime = new double[months][facilities]; double[][] OOP = new double[months][facilities]; double[][] IPQ = new double[months][facilities]; double[][] expIPQ = new double[months][facilities];    //Extract Values from Run P4P = root.P4P; DMVisit = root.DM\_months\_between\_visits; AvgParity = root.last6monParityCalc(); AvgOutreach = root.total\_Outreach\_6m[root.sim\_dur\_6months]; AvgDrug = root.total\_DrugAvail\_6m[root.sim\_dur\_6months];   //TBA here //Gifts here  writeOutputs(); | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  | Page 231 of | 265 |  |  |  |  |

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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  | for( int i=0; i<facilities; i++) {  for( int m=0; m<months; m++) {  num\_preg[m][i] = root.facilities.get(i).all\_births\_ds.getY(m);  in\_fac[m][i] = root.facilities.get(i).in\_Facility\_Births\_ds.getY(m);  delays[m][i] = root.facilities.get(i).delayedPayment\_m[m];  dm\_visit[m][i] = root.facilities.get(i).dm\_visit\_m[m];  delayMit[m][i] = root.facilities.get(i).delayMitigated\_m[m];  implementedSharedStrategy[m][i] = root.facilities.get(i).strategy\_shared\_m[m];  outreach[m][i] = root.facilities.get(i).outreach\_m[m];  drug[m][i] = root.facilities.get(i).drugs\_avail\_m[m];  TBA[m][i] = root.facilities.get(i).incentive\_TBA\_m[m];  gifts[m][i] = root.facilities.get(i).facility\_gifts\_m[m];  bonus[m][i] = root.facilities.get(i).bonus\_m[m];  kindness[m][i] = root.facilities.get(i).Kindness\_m[m];  expkindness[m][i] = root.facilities.get(i).Exp\_Kindness\_m[m];  consTime[m][i] = root.facilities.get(i).consultation\_Time\_m[m];  OOP[m][i] = root.facilities.get(i).OOP\_m[m];  IPQ[m][i] = root.facilities.get(i).interpersonal\_Quality\_m[m];  expIPQ[m][i] = root.facilities.get(i).interpersonal\_Quality\_m[m];   /\* facilityoutputs.print(runNum +", " + m + ", " + root.facilities.get(i).facility\_name + ", ");  facilityoutputs.print(num\_preg[m][i] + ", ");  facilityoutputs.print(in\_fac[m][i] + ", ");  facilityoutputs.print(delays[m][i] + ", ");\*/    facilityoutputs.print(runNum +", " + m + ", " + root.facilities.get(i).facility\_name + ", ");  facilityoutputs.print(num\_preg[m][i] + ", ");  facilityoutputs.print(in\_fac[m][i] + ", ");  // facilityoutputs.print(outside\_fac[m][i] + ", ");  facilityoutputs.print(delays[m][i] + ", ");    facilityoutputs.print(dm\_visit[m][i] + ", ");  facilityoutputs.print(delayMit[m][i] + ", ");  facilityoutputs.print(implementedSharedStrategy[m][i] + ", ");  facilityoutputs.print(outreach[m][i] + ", ");  facilityoutputs.print(drug[m][i] + ", ");  facilityoutputs.print(TBA[m][i] + ", ");  facilityoutputs.print(gifts[m][i] + ", ");  facilityoutputs.print(bonus[m][i] + ", ");  facilityoutputs.print(kindness[m][i] + ", ");  facilityoutputs.print(expkindness[m][i] + ", ");  facilityoutputs.print(consTime[m][i] + ", ");  facilityoutputs.print(OOP[m][i] + ", ");  facilityoutputs.print(IPQ[m][i] + ", ");   facilityoutputs.print(expIPQ[m][i] + ", ");  facilityoutputs.println();  } }  runNum++; | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Load root from snapshot | false | | |  |  |  |
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|  | *COSMIC-ABM* | | | | | |  |  |
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|  | Function: writeOutputs | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Name | Value | | | |  |  |  |
|  | General | | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | | |  |  |  |
|  | Show at runtime | true | | | |  |  |  |
|  | Show name | true | | | |  |  |  |
|  | Function body | | | | |  |  |  |
|  | Body | //Write headers for community level output file runoutputs.print("P4P, DM Visits Per Year, "); runoutputs.print("AvgOutreach, AvgDrugAvail, PerTBAIncent, PerGifts, AvgBonus, AvgKindness, "); runoutputs.print("AvgConsTime, AvgOOP, AvgInterPersonQ "); runoutputs.println();  //Write headers for facility level output file facilityoutputs.print("SimRun, Month, facilityName, "); facilityoutputs.print("AllBirths, inFacilityBirths, PaymentDelay, DMvisit, DelayMitigated, StrategyReceived, Outreach, DrugAvail, TBAIncent, Gifts, Bonus, Kindness, ExpKindness,"); facilityoutputs.print("ConsTime, OOP, InterPersonQ, ExpInterPersonQ"); facilityoutputs.println();   //Write outputs at the community level runoutputs.print(P4P + ", "); runoutputs.print(DMVisit + ", "); runoutputs.print(AvgOutreach + ", "); runoutputs.print(AvgDrug + ", "); runoutputs.print(/\*TBA here + \*/", "); runoutputs.print(/\*Gifts here +\*/ ", "); | | | |  |  |  |
|  | Advanced | | | | |  |  |  |
|  | Access type | default | | | |  |  |  |
|  | System dynamics units | false | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Variable: P4P | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: DMVisit | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: AvgParity | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: runNum | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: AvgOutreach | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: AvgDrug | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: AvgTBA | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: AvgGifts | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: months | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: facilities | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | COSMIC-ABM | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | royalBlue | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 50.0 | | |  |  |  |
|  | y | 30.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text File: runoutputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | File mode | Write | | |  |  |  |
|  | Text file name | ResourceReference: cosmic\_abm.RunCommOutputs.txt (Resolved: true) | | |  |  |  |
|  | Text File Type | File | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text File: facilityoutputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | File mode | Write | | |  |  |  |
|  | Text file name | ResourceReference: cosmic\_abm.RunFacilityOutputs.txt (Resolved: true) | | |  |  |  |
|  | Text File Type | File | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Simulation Experiment: UserInterface | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Bypass Initial Simulation Screen | false | | |  |  |  |
|  | Maximum available memory | 512 | | |  |  |  |
|  | Agent type | Main | | |  |  |  |
|  | Model time | | | |  |  |  |
|  | Execution mode | Real time with scale | | |  |  |  |
|  | Real time scale | 50.0 | | |  |  |  |
|  | Stop option | Stop at specified date | | |  |  |  |
|  | Initial time | 0.0 | | |  |  |  |
|  | Initial date | Sat Jan 01 00:00:00 GMT 2011 | | |  |  |  |
|  | Final date | Sat Feb 01 00:00:00 GMT 2014 | | |  |  |  |
|  | Randomness | | | |  |  |  |
|  | Random Number Generation Type | Random seed (unique simulation runs) | | |  |  |  |
|  | Window | | | |  |  |  |
|  | Title | COSMIC-ABM : Simulation | | |  |  |  |
|  | Enable zoom and panning | true | | |  |  |  |
|  | Enable developer panel | true | | |  |  |  |
|  | Show developer panel on start | false | | |  |  |  |
|  | Java actions | | | |  |  |  |
|  | Initial setup code | months = 37;//root.sim\_dur\_months; facilities = 5; | | |  |  |  |
|  | After simulation run | double[][] num\_preg = new double[months][facilities]; double[][] in\_fac = new double[months][facilities]; | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  | double[][] outside\_fac = new double[months][facilities]; double[][] delays = new double[months][facilities]; double[][] dm\_visit = new double[months][facilities]; double[][] delayMit = new double[months][facilities]; double[][] implementedSharedStrategy = new double[months][facilities]; double[][] capacity = new double[months][facilities]; double[][] outreach = new double[months][facilities]; double[][] drug = new double[months][facilities]; double[][] TBA = new double[months][facilities]; double[][] gifts = new double[months][facilities]; double[][] bonus = new double[months][facilities]; double[][] kindness = new double[months][facilities]; double[][] expkindness = new double[months][facilities]; double[][] consTime = new double[months][facilities]; double[][] OOP = new double[months][facilities]; double[][] IPQ = new double[months][facilities]; double[][] expIPQ = new double[months][facilities]; double[][] DrugShared = new double[months][facilities];   //simsettings double dm\_months\_between\_visit = root.DM\_months\_between\_visits; double occupancyCushion = root.occupancyCushion; double PerPregInitial = root.PerPregInitiation; double capacityRelax = root.capacityRelaxation; double DMVisitEffects = root.durationOfDMImpact; double initialTBA = root.initialTBA; double initialGifts = root.initialGifts; double catchmult = root.PerWRA; double lessPoorAdd = root.LessPoor\_prop\_add; double fmod = root.M1a; double homemod = root.M1b; double othermod = root.M2; double tbamod = root.M3; int P4PN = root.P4PN; int delayOn = root.Delays; double DrugSharingTheshold = root.drugSharingthreshold; double DrugSharingAmt = root.drugSharingAmt;  for(int i=0; i<facilities; i++) {  for( int m=0; m<months; m++) {  num\_preg[m][i] = root.facilities.get(i).all\_births\_ds.getY(m);  in\_fac[m][i] = root.facilities.get(i).in\_Facility\_Births\_ds.getY(m);  outside\_fac[m][i] = root.facilities.get(i).Facility\_OC\_Births\_ds.getY(m);  delays[m][i] = root.facilities.get(i).delayedPayment\_m[m];  dm\_visit[m][i] = root.facilities.get(i).dm\_visit\_m[m];  delayMit[m][i] = root.facilities.get(i).delayMitigated\_m[m];  implementedSharedStrategy[m][i] = root.facilities.get(i).strategy\_shared\_m[m];  capacity[m][i] = root.facilities.get(i).capacity\_m[m];   outreach[m][i] = root.facilities.get(i).outreach\_m[m];  drug[m][i] = root.facilities.get(i).drugs\_avail\_m[m];  TBA[m][i] = root.facilities.get(i).incentive\_TBA\_m[m];  gifts[m][i] = root.facilities.get(i).facility\_gifts\_m[m];  bonus[m][i] = root.facilities.get(i).bonus\_m[m];  kindness[m][i] = root.facilities.get(i).Kindness\_m[m];  expkindness[m][i] = root.facilities.get(i).Exp\_Kindness\_m[m];  consTime[m][i] = root.facilities.get(i).consultation\_Time\_m[m];  OOP[m][i] = root.facilities.get(i).OOP\_m[m];  IPQ[m][i] = root.facilities.get(i).interpersonal\_Quality\_m[m];  expIPQ[m][i] = root.facilities.get(i).Exp\_IPQ\_m[m];  DrugShared[m][i] = root.facilities.get(i).drugsShared\_m[m];      //facilityoutputs.print(iterationNum +", "+ runNum +", " + m + ", " + root.facilities.get(i).facility\_name + ", ");  facilityoutputs.print(num\_preg[m][i] + ", ");  facilityoutputs.print(in\_fac[m][i] + ", ");  facilityoutputs.print(outside\_fac[m][i] + ", ");  facilityoutputs.print(delays[m][i] + ", ");  facilityoutputs.print(dm\_visit[m][i] + ", "); | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  |  | facilityoutputs.print(DrugShared[m][i] + ", ");  facilityoutputs.print(dm\_months\_between\_visit + ", ");  facilityoutputs.print(delayMit[m][i] + ", ");  facilityoutputs.print(implementedSharedStrategy[m][i] + ", ");  facilityoutputs.print(capacity[m][i] + ", ");  facilityoutputs.print(outreach[m][i] + ", ");  facilityoutputs.print(drug[m][i] + ", ");  facilityoutputs.print(TBA[m][i] + ", ");  facilityoutputs.print(gifts[m][i] + ", ");  facilityoutputs.print(bonus[m][i] + ", ");  facilityoutputs.print(kindness[m][i] + ", ");  facilityoutputs.print(expkindness[m][i] + ", ");  facilityoutputs.print(consTime[m][i] + ", ");  facilityoutputs.print(OOP[m][i] + ", ");  facilityoutputs.print(IPQ[m][i] + ", ");   facilityoutputs.print(expIPQ[m][i] + ", ");  facilityoutputs.print(occupancyCushion + ", ");  facilityoutputs.print(PerPregInitial + ", ");  facilityoutputs.print(capacityRelax + ", ");  facilityoutputs.print(DrugSharingTheshold + ", ");  facilityoutputs.print(DrugSharingAmt + ", ");  facilityoutputs.print(initialTBA + ", ");  facilityoutputs.print(initialGifts + ", ");  facilityoutputs.print(DMVisitEffects + ", ");  facilityoutputs.print(P4PN+ ", ");  facilityoutputs.print(delayOn+ ", ");  facilityoutputs.print(lessPoorAdd+ ", ");  facilityoutputs.print(catchmult+ ", ");  facilityoutputs.print(fmod+ ", ");  facilityoutputs.print(homemod+ ", ");  facilityoutputs.print(othermod+ ", ");  facilityoutputs.print(tbamod);  facilityoutputs.println();   } }  runNum++; | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Load root from snapshot | false | | |  |  |  |
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|  | Function: writeOutputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Function body | | | |  |  |  |
|  | Body | //Write headers for community level output file runoutputs.print("P4P, DM Visits Per Year, "); runoutputs.print("AvgOutreach, AvgDrugAvail, PerTBAIncent, PerGifts, AvgBonus, AvgKindness, "); runoutputs.print("AvgConsTime, AvgOOP, AvgInterPersonQ "); runoutputs.println();  //Write headers for facility level output file facilityoutputs.print("SimRun, Month, facilityName, "); facilityoutputs.print("AllBirths, inFacilityBirths, PaymentDelay, DMvisit, DelayMitigated, StrategyReceived, Outreach, DrugAvail, TBAIncent, Gifts, Bonus, Kindness, ExpKindness,"); facilityoutputs.print("ConsTime, OOP, InterPersonQ, ExpInterPersonQ"); facilityoutputs.println();   //Write outputs at the community level runoutputs.print(P4P + ", "); runoutputs.print(DMVisit + ", "); runoutputs.print(AvgOutreach + ", "); runoutputs.print(AvgDrug + ", "); runoutputs.print(/\*TBA here + \*/", "); runoutputs.print(/\*Gifts here +\*/ ", "); | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: P4Prun | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | true | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: DMVisit | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: AvgParity | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: runNum | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: AvgOutreach | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: AvgDrug | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: AvgTBA | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: AvgGifts | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | double | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: months | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: facilities | | | | |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: P4P | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: ActivateDelays | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | true | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: shortenPayTurn | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 3 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: DMVisitBin | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | true | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: DrugSharingBin | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | true | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: ActivateBypass | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | true | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: ActivateExpansion | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | Type | boolean | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text12 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | P4P and Maternal & Child Health in Tanzania | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 100.0 | | |  |  |  |
|  | y | 40.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Image: image3 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1270.0 | | |  |  |  |
|  | Width | 139.379 | | |  |  |  |
|  | y | 105.0 | | |  |  |  |
|  | Height | 37.288 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Image: image1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
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|  |  | Page 245 of | 265 |  |  |  |  |

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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1260.0 | | |  |  |  |
|  | Width | 83.172 | | |  |  |  |
|  | y | 20.0 | | |  |  |  |
|  | Height | 67.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Image: image2 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1430.0 | | |  |  |  |
|  | Width | 49.613 | | |  |  |  |
|  | y | 100.0 | | |  |  |  |
|  | Height | 50.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Image: image | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 1370.0 | | |  |  |  |
|  | Width | 130.0 | | |  |  |  |
|  | y | 21.0 | | |  |  |  |
|  | Height | 68.166 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | min | | |  |  |  |
|  | Dynamic: Text | MonthstoPayment.getMin() | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 140.0 | | |  |  |  |
|  | y | 550.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | max | | |  |  |  |
|  | Dynamic: Text | MonthstoPayment.getMax() | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | RIGHT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 270.0 | | |  |  |  |
|  | y | 550.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text2 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | value | | |  |  |  |
|  | Dynamic: Text | MonthstoPayment.getValue() | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | CENTER | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 205.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | y | 550.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text3 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Months to Receive Payment After Performance Cycle | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 100.0 | | |  |  |  |
|  | y | 470.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text: text11 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Text | | | |  |  |  |
|  | Text | Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.  Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure  dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident,  sunt in culpa qui officia deserunt mollit anim id est laborum. | | |  |  |  |
|  | Appearance | | | |  |  |  |
|  | Color | black | | |  |  |  |
|  | Alignment | LEFT | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 110.0 | | |  |  |  |
|  | y | 90.0 | | |  |  |  |
|  | z | 0.0 | | |  |  |  |
|  | Rotation | 0.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Button: button | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Enable | getState() == IDLE | | |  |  |  |
|  | Enabled | true | | |  |  |  |
|  | Dynamic: Label | getState() == IDLE ? "Run Model" : "Top level agent" | | |  |  |  |
|  | Label text | Run Model | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Action | | | |  |  |  |
|  | Action | run(); getExperimentHost().setPresentable( getEngine().getRoot() ); | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 130.0 | | |  |  |  |
|  | Width | 160.0 | | |  |  |  |
|  | y | 600.0 | | |  |  |  |
|  | Height | 80.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Check Box: P4PControl | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Enabled | true | | |  |  |  |
|  | Link | P4Prun | | |  |  |  |
|  | Link | P4Prun | | |  |  |  |
|  | Link to | true | | |  |  |  |
|  | Label text | Activate P4P | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 120.0 | | |  |  |  |
|  | Width | 180.0 | | |  |  |  |
|  | y | 240.0 | | |  |  |  |
|  | Height | 30.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Check Box: DelaysActivate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Enabled | true | | |  |  |  |
|  | Link | ActivateDelays | | |  |  |  |
|  | Link | ActivateDelays | | |  |  |  |
|  | Link to | true | | |  |  |  |
|  | Label text | Activate Delays | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 120.0 | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Width | 180.0 | | |  |  |  |
|  | y | 370.0 | | |  |  |  |
|  | Height | 30.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Slider: MonthstoPayment | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Enabled | true | | |  |  |  |
|  | Step | 1 | | |  |  |  |
|  | Maximum value | 3 | | |  |  |  |
|  | Minimum value | 0 | | |  |  |  |
|  | Link | shortenPayTurn | | |  |  |  |
|  | Link | shortenPayTurn | | |  |  |  |
|  | Link to | true | | |  |  |  |
|  | Orientation | Horizontal | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 140.0 | | |  |  |  |
|  | Width | 130.0 | | |  |  |  |
|  | y | 520.0 | | |  |  |  |
|  | Height | 30.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Check Box: DMActivate | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Enabled | true | | |  |  |  |
|  | Link | DMVisitBin | | |  |  |  |
|  | Link | DMVisitBin | | |  |  |  |
|  | Link to | true | | |  |  |  |
|  | Label text | Activate DM Visits | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 120.0 | | |  |  |  |
|  | Width | 240.0 | | |  |  |  |
|  | y | 410.0 | | |  |  |  |
|  | Height | 30.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Check Box: DrugSharing | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  |  |  |  |  |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Dynamic: Enable | DMVisitBin | | |  |  |  |
|  | Enabled | true | | |  |  |  |
|  | Link | DrugSharingBin | | |  |  |  |
|  | Link | DrugSharingBin | | |  |  |  |
|  | Link to | true | | |  |  |  |
|  | Label text | Activate DrugSharing | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 340.0 | | |  |  |  |
|  | Width | 240.0 | | |  |  |  |
|  | y | 400.0 | | |  |  |  |
|  | Height | 30.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Check Box: DelaysActivate1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Enabled | true | | |  |  |  |
|  | Link | ActivateBypass | | |  |  |  |
|  | Link | ActivateBypass | | |  |  |  |
|  | Link to | true | | |  |  |  |
|  | Label text | Activate Patient Bypass | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 120.0 | | |  |  |  |
|  | Width | 240.0 | | |  |  |  |
|  | y | 280.0 | | |  |  |  |
|  | Height | 30.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Check Box: DMActivate1 | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Enabled | true | | |  |  |  |
|  | Link | ActivateExpansion | | |  |  |  |
|  | Link | ActivateExpansion | | |  |  |  |
|  | Link to | true | | |  |  |  |
|  | Label text | Activate Capacity Expansion | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 120.0 | | |  |  |  |
|  | Width | 240.0 | | |  |  |  |
|  | y | 320.0 | | |  |  |  |
|  | Height | 30.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text File: runoutputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | File mode | Write | | |  |  |  |
|  | Text file name | ResourceReference: cosmic\_abm.RunCommOutputs.txt (Resolved: true) | | |  |  |  |
|  | Text File Type | File | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text File: facilityoutputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | File mode | Write | | |  |  |  |
|  | Text file name | ResourceReference: cosmic\_abm.RunFacilityOutputs.txt (Resolved: true) | | |  |  |  |
|  | Text File Type | File | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter Variation Experiment: ParametersVariation | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Maximum available memory | 16384 | | |  |  |  |
|  | Agent type | Main | | |  |  |  |
|  | Model time | | | |  |  |  |
|  | Stop option | Stop at specified date | | |  |  |  |
|  | Initial time | 0.0 | | |  |  |  |
|  | Initial date | Sat Jan 01 00:00:00 GMT 2011 | | |  |  |  |
|  | Final date | Sun Jan 05 00:00:00 GMT 2014 | | |  |  |  |
|  | Randomness | | | |  |  |  |
|  | Random Number Generation Type | Random seed (unique simulation runs) | | |  |  |  |
|  | Replications | | | |  |  |  |
|  | Use replications | true | | |  |  |  |
|  | Fixed replications number | true | | |  |  |  |
|  | Replications per iteration | 500 | | |  |  |  |
|  | Window | | | |  |  |  |
|  | Title | COSMIC-ABM: Parameter Variation | | |  |  |  |
|  | Enable zoom and panning | true | | |  |  |  |
|  | Enable developer panel | true | | |  |  |  |
|  | Show developer panel on start | false | | |  |  |  |
|  | Java actions | | | |  |  |  |
|  | Initial setup code | writeHeaders(); months = 36;//root.sim\_dur\_months; facilities = 12;//root.num\_of\_facilities; | | |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  |  |  | | |  |  |  |
|  | Before simulation run | //getEngine().setSimultaneousEventsSelectionMode(Engine.EVENT\_SELECTION\_RANDOM); | | |  |  |  |
|  | After simulation run | double[][] num\_preg = new double[months][facilities]; double[][] in\_fac = new double[months][facilities]; double[][] outside\_fac = new double[months][facilities]; double[][] delays = new double[months][facilities]; double[][] dm\_visit = new double[months][facilities]; double[][] delayMit = new double[months][facilities]; double[][] implementedSharedStrategy = new double[months][facilities]; double[][] capacity = new double[months][facilities]; double[][] outreach = new double[months][facilities]; double[][] drug = new double[months][facilities]; double[][] TBA = new double[months][facilities]; double[][] gifts = new double[months][facilities]; double[][] bonus = new double[months][facilities]; double[][] kindness = new double[months][facilities]; double[][] expkindness = new double[months][facilities]; double[][] consTime = new double[months][facilities]; double[][] OOP = new double[months][facilities]; double[][] IPQ = new double[months][facilities]; double[][] expIPQ = new double[months][facilities]; double[][] DrugShared = new double[months][facilities]; double[][] bypassedFrom = new double[months][facilities]; double[][] bypassedTo = new double[months][facilities];   //simsettings double dm\_months\_between\_visit = root.DM\_months\_between\_visits; double monthlyPregRate = root.monthlyPregRate; double PerPregInitial = root.PerPregInitiation; double capacityRelax = root.capacityRelaxation; double DMVisitEffects = root.durationOfDMImpact; double initialTBA = root.initialTBA; double initialGifts = root.initialGifts; double catchmult = root.PerWRA; double lessPoorAdd = root.LessPoor\_prop\_add; double fmod = root.M1a; double homemod = root.M1b; double othermod = root.M2; double tbamod = root.M3; int P4PN = root.P4PN; int bypass = root.bypass; int expansion = root.allowExpansion; int delayOn = root.Delays; int dm\_visits\_on = root.DmVisits0; int DrugSharingOn = root.DrugSharing0; double DrugSharingTheshold = root.drugSharingthreshold; double DrugSharingAmt = root.drugSharingAmt; int womenChoiceMods = root.womenChoiceMods; int occupancyEffects = root.occupancyEffects; double b = root.b;  for(int i=0; i<facilities; i++) {  for( int m=0; m<months; m++) {  num\_preg[m][i] = root.facilities.get(i).all\_births\_ds.getY(m);  in\_fac[m][i] = root.facilities.get(i).in\_Facility\_Births\_ds.getY(m);  outside\_fac[m][i] = root.facilities.get(i).Facility\_OC\_Births\_ds.getY(m);  delays[m][i] = root.facilities.get(i).delayedPayment\_m[m];  dm\_visit[m][i] = root.facilities.get(i).dm\_visit\_m[m];  delayMit[m][i] = root.facilities.get(i).delayMitigated\_m[m];  implementedSharedStrategy[m][i] = root.facilities.get(i).strategy\_shared\_m[m];  capacity[m][i] = root.facilities.get(i).capacity\_m[m];   outreach[m][i] = root.facilities.get(i).outreach\_m[m];  drug[m][i] = root.facilities.get(i).drugs\_avail\_m[m];  TBA[m][i] = root.facilities.get(i).incentive\_TBA\_m[m];  gifts[m][i] = root.facilities.get(i).facility\_gifts\_m[m]; | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  |  | bonus[m][i] = root.facilities.get(i).bonus\_m[m];  kindness[m][i] = root.facilities.get(i).Kindness\_m[m];  expkindness[m][i] = root.facilities.get(i).Exp\_Kindness\_m[m];  consTime[m][i] = root.facilities.get(i).consultation\_Time\_m[m];  OOP[m][i] = root.facilities.get(i).OOP\_m[m];  IPQ[m][i] = root.facilities.get(i).interpersonal\_Quality\_m[m];  expIPQ[m][i] = root.facilities.get(i).Exp\_IPQ\_m[m];  DrugShared[m][i] = root.facilities.get(i).drugsShared\_m[m];  bypassedFrom[m][i] = root.facilities.get(i).all\_bypassed\_from.getY(m);  bypassedTo[m][i] = root.facilities.get(i).all\_bypassed\_to.getY(m);      facilityoutputs.print(runNum +", " + m + ", " + root.facilities.get(i).facility\_name + ", ");  facilityoutputs.print(num\_preg[m][i] + ", ");  facilityoutputs.print(in\_fac[m][i] + ", ");  facilityoutputs.print(outside\_fac[m][i] + ", ");  facilityoutputs.print(delays[m][i] + ", ");  facilityoutputs.print(dm\_visits\_on + ", ");  facilityoutputs.print(dm\_visit[m][i] + ", ");  facilityoutputs.print(DrugShared[m][i] + ", ");  facilityoutputs.print(dm\_months\_between\_visit + ", ");  facilityoutputs.print(delayMit[m][i] + ", ");  facilityoutputs.print(implementedSharedStrategy[m][i] + ", ");  facilityoutputs.print(capacity[m][i] + ", ");  facilityoutputs.print(outreach[m][i] + ", ");  facilityoutputs.print(drug[m][i] + ", ");  facilityoutputs.print(TBA[m][i] + ", ");  facilityoutputs.print(gifts[m][i] + ", ");  facilityoutputs.print(bonus[m][i] + ", ");  facilityoutputs.print(kindness[m][i] + ", ");  facilityoutputs.print(expkindness[m][i] + ", ");  facilityoutputs.print(bypassedFrom[m][i] + ", ");  facilityoutputs.print(bypassedTo[m][i] + ", ");  facilityoutputs.print(consTime[m][i] + ", ");  facilityoutputs.print(OOP[m][i] + ", ");  facilityoutputs.print(IPQ[m][i] + ", ");   facilityoutputs.print(expIPQ[m][i] + ", ");  facilityoutputs.print(monthlyPregRate + ", ");  facilityoutputs.print(PerPregInitial + ", ");  facilityoutputs.print(capacityRelax + ", ");  facilityoutputs.print(DrugSharingOn + ", ");  facilityoutputs.print(DrugSharingTheshold + ", ");  facilityoutputs.print(DrugSharingAmt + ", ");  facilityoutputs.print(initialTBA + ", ");  facilityoutputs.print(initialGifts + ", ");  facilityoutputs.print(DMVisitEffects + ", ");  facilityoutputs.print(P4PN+ ", ");  facilityoutputs.print(bypass+ ", ");  facilityoutputs.print(b+ ", ");   facilityoutputs.print(expansion+ ", ");  facilityoutputs.print(delayOn+ ", ");  facilityoutputs.print(lessPoorAdd+ ", ");  facilityoutputs.print(catchmult+ ", ");  facilityoutputs.print(occupancyEffects+ ", ");  facilityoutputs.print(womenChoiceMods+ ", ");  facilityoutputs.print(fmod+ ", ");  facilityoutputs.print(homemod+ ", ");  facilityoutputs.print(othermod+ ", ");  facilityoutputs.print(tbamod);  facilityoutputs.println();   } }  runNum++; | | |  |  |  |
|  | After iteration code | iterationNum++; | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Allow parallel evaluations | true | | |  |  |  |
|  | Load root from snapshot | false | | |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | |  |  |
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|  | Parameter Variation Experiment Parameters: | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | | Value | | | | |  |  |  |
|  | Parameter | Type | | Min | Max | | Step | |  |  |  |
|  | num\_of\_facilities | FIXED | |  |  |  |  |  |  |  |  |
|  | num\_of\_women | FIXED | |  |  |  |  |  |  |  |  |
|  | M1a | FIXED | | 0.35 | | | | |  |  |  |
|  | M1b | FIXED | | 0.0 | | | | |  |  |  |
|  | M1c | FIXED | |  |  |  |  |  |  |  |  |
|  | M2 | FIXED | | 0.35 | | | | |  |  |  |
|  | M3 | FIXED | |  |  |  |  |  |  |  |  |
|  | sim\_dur | FIXED | |  |  |  |  |  |  |  |  |
|  | sim\_dur\_weeks | FIXED | |  |  |  |  |  |  |  |  |
|  | sim\_dur\_months | FIXED | |  |  |  |  |  |  |  |  |
|  | sim\_dur\_6months | FIXED | |  |  |  |  |  |  |  |  |
|  | ShareWomenExperience | FIXED | |  |  |  |  |  |  |  |  |
|  | catchment\_mult | FIXED | | 1 | | | | |  |  |  |
|  | PerWRA | FIXED | |  |  |  |  |  |  |  |  |
|  | PerPregInitiation | FIXED | | 0.025 | | | | |  |  |  |
|  | DM\_months\_between\_visits | FIXED | |  |  |  |  |  |  |  |  |
|  | facilitiesSeenPerVisit | FIXED | |  |  |  |  |  |  |  |  |
|  | pregancyDuration | FIXED | |  |  |  |  |  |  |  |  |
|  | P4PN | RANGE | | 0 | 1 | | 1 | |  |  |  |
|  | P4P | FIXED | |  |  |  |  |  |  |  |  |
|  | produceOutputs | FIXED | |  |  |  |  |  |  |  |  |
|  | sim\_dur\_years | FIXED | |  |  |  |  |  |  |  |  |
|  | Delays | FIXED | |  |  |  |  |  |  |  |  |
|  | monthlyPregRate | FIXED | | 0.0167 | | | | |  |  |  |
|  | durationOfDMImpact | FIXED | | 1 | | | | |  |  |  |
|  | capacityRelaxation | FIXED | | 1 | | | | |  |  |  |
|  | initialTBA | FIXED | |  |  |  |  |  |  |  |  |
|  | initialGifts | FIXED | |  |  |  |  |  |  |  |  |
|  | LessPoor\_prop\_add | FIXED | |  |  |  |  |  |  |  |  |
|  | P4P\_NoBonusHarm | FIXED | |  |  |  |  |  |  |  |  |
|  | shorterPaymentPeriod | FIXED | |  |  |  |  |  |  |  |  |
|  | DmVisits0 | FIXED | |  |  |  |  |  |  |  |  |
|  | drugSharingthreshold | FIXED | |  |  |  |  |  |  |  |  |
|  | drugSharingAmt | FIXED | |  |  |  |  |  |  |  |  |
|  | DmVisits | FIXED | |  |  |  |  |  |  |  |  |
|  | DrugSharing0 | FIXED | |  |  |  |  |  |  |  |  |
|  | womenChoiceMods | FIXED | |  |  |  |  |  |  |  |  |
|  | DrugSharingB | FIXED | |  |  |  |  |  |  |  |  |
|  | occupancyEffects | FIXED | |  |  |  |  |  |  |  |  |
|  | FacilityATargets | FIXED | |  |  |  |  |  |  |  |  |
|  | FacilityBTargets | FIXED | |  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | | | |  |  |
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|  | Parameter Variation Experiment Parameters: | | | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | | Value | | | | | |  |  |  |  |
|  | Parameter | Type | | Min | Max | | Step | | |  |  |  |  |
|  | FacilityCTargets | FIXED | |  |  |  |  |  |  |  |  |  |  |
|  | n\_social | FIXED | |  |  |  |  |  |  |  |  |  |  |
|  | occupancyCushion | FIXED | |  |  |  |  |  |  |  |  |  |  |
|  | bypass | RANGE | | 0 | 1 | | 1 | | |  |  |  |  |
|  | allowExpansion | RANGE | | 0 | 1 | | 1 | | |  |  |  |  |
|  | b | FIXED | |  |  |  |  |  |  |  |  |  |  |
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|  | Function: writeHeaders | | | | | | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Name | | Value | | | | | | | |  |  |  |
|  | General | | | | | | | | | |  |  |  |
|  | Return type: | | Just action (returns nothing) | | | | | | | |  |  |  |
|  | Show at runtime | | true | | | | | | | |  |  |  |
|  | Show name | | true | | | | | | | |  |  |  |
|  | Function body | | | | | | | | | |  |  |  |
|  | Body | | //Write headers for facility level output file facilityoutputs.print("SimRun, Month, facilityName, "); facilityoutputs.print("AllBirths, inFacilityBirths, OutsideFacilityBirths, PaymentDelay, dm\_visits\_on, DMvisit, DrugShared, Months\_btw\_DM\_Visits, DelayMitigated, StrategyReceived, Capacity, Outreach, DrugAvail, TBAIncent, Gifts, Bonus, Kindness, ExpKindness,"); facilityoutputs.print("BypassFrom, BypassTo, ConsTime, OOP, | | | | | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  |  | InterPersonQ, ExpInterPersonQ, monthlyPregRate, PerPregInitial, capacityRelax, DrugSharingOn, MinDrugSharingThes, DrugSharingAmt, initialTBA, initialGifts, durationofDMVistEffect, P4P, Bypass, bypass\_b ,Expansions, Delays, LessPoorAdd, CatchMult, OccupancyEffectsOn, ModOn, fmod, homemod, othermod, tbamod"); facilityoutputs.println(); | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Function: writeRunValues | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Function body | | | |  |  |  |
|  | Body |  | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: runNum | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: months | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
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|  |  |  |  |  |  |  |  |
|  | Variable: facilities | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: iterationNum | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Button: button | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Dynamic: Enable | getState() == IDLE | | |  |  |  |
|  | Enabled | true | | |  |  |  |
|  | Dynamic: Label | getState() == IDLE ? "Run Model" : "Top level agent" | | |  |  |  |
|  | Label text | Run Model | | |  |  |  |
|  | Lock | false | | |  |  |  |
|  | Action | | | |  |  |  |
|  | Action | run(); | | |  |  |  |
|  | Position and size | | | |  |  |  |
|  | x | 50.0 | | |  |  |  |
|  | Width | 160.0 | | |  |  |  |
|  | y | 70.0 | | |  |  |  |
|  | Height | 80.0 | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Show name | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Text File: facilityoutputs | | | | |  |  |
|  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | File mode | Write | | |  |  |  |
|  | Text file name | ResourceReference: cosmic\_abm.simulationOutputs.txt (Resolved: true) | | |  |  |  |
|  | Text File Type | File | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Parameter Variation Experiment: Calibration | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Maximum available memory | 16384 | | |  |  |  |
|  | Agent type | Main | | |  |  |  |
|  | Model time | | | |  |  |  |
|  | Stop option | Stop at specified date | | |  |  |  |
|  | Initial time | 0.0 | | |  |  |  |
|  | Initial date | Sat Jan 01 00:00:00 GMT 2011 | | |  |  |  |
|  | Final date | Thu Jan 02 00:00:00 GMT 2014 | | |  |  |  |
|  | Randomness | | | |  |  |  |
|  | Random Number Generation Type | Random seed (unique simulation runs) | | |  |  |  |
|  | Replications | | | |  |  |  |
|  | Use replications | true | | |  |  |  |
|  | Fixed replications number | true | | |  |  |  |
|  | Replications per iteration | 5 | | |  |  |  |
|  | Window | | | |  |  |  |
|  | Title | COSMIC-ABM: Parameter Variation | | |  |  |  |
|  | Enable zoom and panning | true | | |  |  |  |
|  | Enable developer panel | true | | |  |  |  |
|  | Show developer panel on start | false | | |  |  |  |
|  | Java actions | | | |  |  |  |
|  | Initial setup code | writeHeaders(); months = 36;//root.sim\_dur\_months; facilities = 12;//root.num\_of\_facilities; | | |  |  |  |
|  | Before simulation run | //getEngine().setSimultaneousEventsSelectionMode(Engine.EVENT\_SELECTION\_RANDOM); | | |  |  |  |
|  | After simulation run | double[][] num\_preg = new double[months][facilities]; double[][] in\_fac = new double[months][facilities]; double[][] outside\_fac = new double[months][facilities]; double[][] delays = new double[months][facilities]; double[][] dm\_visit = new double[months][facilities]; double[][] delayMit = new double[months][facilities]; double[][] implementedSharedStrategy = new double[months][facilities]; double[][] capacity = new double[months][facilities]; double[][] outreach = new double[months][facilities]; double[][] drug = new double[months][facilities]; double[][] TBA = new double[months][facilities]; double[][] gifts = new double[months][facilities]; double[][] bonus = new double[months][facilities]; double[][] kindness = new double[months][facilities]; double[][] expkindness = new double[months][facilities]; double[][] consTime = new double[months][facilities]; double[][] OOP = new double[months][facilities]; double[][] IPQ = new double[months][facilities]; | | |  |  |  |
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|  | Name | Value | | |  |  |  |
|  |  | double[][] expIPQ = new double[months][facilities]; double[][] DrugShared = new double[months][facilities]; double[][] bypassedFrom = new double[months][facilities]; double[][] bypassedTo = new double[months][facilities];  //simsettings double dm\_months\_between\_visit = root.DM\_months\_between\_visits; double occupancyCushion = root.occupancyCushion; double PerPregInitial = root.PerPregInitiation; double capacityRelax = root.capacityRelaxation; double DMVisitEffects = root.durationOfDMImpact; double initialTBA = root.initialTBA; double initialGifts = root.initialGifts; double catchmult = root.PerWRA; double lessPoorAdd = root.LessPoor\_prop\_add; double fmod = root.M1a; double homemod = root.M1b; double othermod = root.M2; double tbamod = root.M3; int P4PN = root.P4PN; int delayOn = root.Delays; int DrugSharingOn = root.DrugSharing0; double DrugSharingTheshold = root.drugSharingthreshold; double DrugSharingAmt = root.drugSharingAmt; int womenChoiceMods = root.womenChoiceMods; int n\_social = root.n\_social; int occupancyEffects = root.occupancyEffects; double monthlyPregRate = root.monthlyPregRate; int bypass = root.bypass; int expansion = root.allowExpansion; int dm\_visits\_on = root.DmVisits0; double b = root.b;   for(int i=0; i<facilities; i++) {  for( int m=0; m<months; m++) {  num\_preg[m][i] = root.facilities.get(i).all\_births\_ds.getY(m);  in\_fac[m][i] = root.facilities.get(i).in\_Facility\_Births\_ds.getY(m);  outside\_fac[m][i] = root.facilities.get(i).Facility\_OC\_Births\_ds.getY(m);  delays[m][i] = root.facilities.get(i).delayedPayment\_m[m];  dm\_visit[m][i] = root.facilities.get(i).dm\_visit\_m[m];  delayMit[m][i] = root.facilities.get(i).delayMitigated\_m[m];  implementedSharedStrategy[m][i] = root.facilities.get(i).strategy\_shared\_m[m];  capacity[m][i] = root.facilities.get(i).capacity\_m[m];   outreach[m][i] = root.facilities.get(i).outreach\_m[m];  drug[m][i] = root.facilities.get(i).drugs\_avail\_m[m];  TBA[m][i] = root.facilities.get(i).incentive\_TBA\_m[m];  gifts[m][i] = root.facilities.get(i).facility\_gifts\_m[m];  bonus[m][i] = root.facilities.get(i).bonus\_m[m];  kindness[m][i] = root.facilities.get(i).Kindness\_m[m];  expkindness[m][i] = root.facilities.get(i).Exp\_Kindness\_m[m];  consTime[m][i] = root.facilities.get(i).consultation\_Time\_m[m];  OOP[m][i] = root.facilities.get(i).OOP\_m[m];  IPQ[m][i] = root.facilities.get(i).interpersonal\_Quality\_m[m];  expIPQ[m][i] = root.facilities.get(i).Exp\_IPQ\_m[m];  DrugShared[m][i] = root.facilities.get(i).drugsShared\_m[m];  bypassedFrom[m][i] = root.facilities.get(i).all\_bypassed\_from.getY(m);  bypassedTo[m][i] = root.facilities.get(i).all\_bypassed\_to.getY(m);      facilityoutputs.print(iterationNum +", "+ runNum +", " + m + ", " + root.facilities.get(i).facility\_name + ", ");  facilityoutputs.print(num\_preg[m][i] + ", ");  facilityoutputs.print(in\_fac[m][i] + ", ");  facilityoutputs.print(outside\_fac[m][i] + ", ");  facilityoutputs.print(delays[m][i] + ", ");  facilityoutputs.print(dm\_visit[m][i] + ", ");  facilityoutputs.print(DrugShared[m][i] + ", ");  facilityoutputs.print(dm\_months\_between\_visit + ", ");  facilityoutputs.print(delayMit[m][i] + ", "); | | |  |  |  |
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|  | Name | | Value | | | | | | |  |  |  |
|  |  |  | facilityoutputs.print(implementedSharedStrategy[m][i] + ", ");  facilityoutputs.print(capacity[m][i] + ", ");  facilityoutputs.print(outreach[m][i] + ", ");  facilityoutputs.print(drug[m][i] + ", ");  facilityoutputs.print(TBA[m][i] + ", ");  facilityoutputs.print(gifts[m][i] + ", ");  facilityoutputs.print(bonus[m][i] + ", ");  facilityoutputs.print(kindness[m][i] + ", ");  facilityoutputs.print(expkindness[m][i] + ", ");  facilityoutputs.print(consTime[m][i] + ", ");  facilityoutputs.print(OOP[m][i] + ", ");  facilityoutputs.print(IPQ[m][i] + ", ");   facilityoutputs.print(expIPQ[m][i] + ", ");  facilityoutputs.print(occupancyCushion + ", ");  facilityoutputs.print(PerPregInitial + ", ");  facilityoutputs.print(capacityRelax + ", ");  facilityoutputs.print(DrugSharingOn + ", ");  facilityoutputs.print(DrugSharingTheshold + ", ");  facilityoutputs.print(DrugSharingAmt + ", ");  facilityoutputs.print(initialTBA + ", ");  facilityoutputs.print(initialGifts + ", ");  facilityoutputs.print(DMVisitEffects + ", ");  facilityoutputs.print(P4PN+ ", ");  facilityoutputs.print(delayOn+ ", ");  facilityoutputs.print(lessPoorAdd+ ", ");  facilityoutputs.print(catchmult+ ", ");  facilityoutputs.print(occupancyEffects+ ", ");  facilityoutputs.print(womenChoiceMods+ ", ");  facilityoutputs.print(n\_social+ ", ");  facilityoutputs.print(fmod+ ", ");  facilityoutputs.print(homemod+ ", ");  facilityoutputs.print(othermod+ ", ");  facilityoutputs.print(tbamod+ ",");  facilityoutputs.print(monthlyPregRate + ", ");  facilityoutputs.print(bypass + ", ");  facilityoutputs.print(expansion + ", ");  facilityoutputs.print(b + ", ");  facilityoutputs.print(bypassedFrom[m][i] + ", ");  facilityoutputs.print(bypassedTo[m][i]);  facilityoutputs.println();   } }  runNum++; | | | | | | |  |  |  |
|  | After iteration code | | iterationNum++; | | | | | | |  |  |  |
|  | Advanced | | | | | | | | |  |  |  |
|  | Allow parallel evaluations | | false | | | | | | |  |  |  |
|  | Load root from snapshot | | false | | | | | | |  |  |  |
|  | Parameter Variation Experiment Parameters: | | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | | Value | | | | |  |  |  |  |
|  | Parameter | Type | | Min | Max | | Step | |  |  |  |  |
|  | num\_of\_facilities | FIXED | |  |  |  |  |  |  |  |  |  |
|  | num\_of\_women | FIXED | |  |  |  |  |  |  |  |  |  |
|  | M1a | RANGE | | 0.3 | 0.35 | | 0.05 | |  |  |  |  |
|  | M1b | RANGE | | 0 | 0.05 | | 0.025 | |  |  |  |  |
|  | M1c | FIXED | |  |  |  |  |  |  |  |  |  |
|  | M2 | RANGE | | 0.3 | 0.35 | | 0.05 | |  |  |  |  |
|  | M3 | FIXED | |  |  |  |  |  |  |  |  |  |
|  | sim\_dur | FIXED | |  |  |  |  |  |  |  |  |  |
|  | sim\_dur\_weeks | FIXED | |  |  |  |  |  |  |  |  |  |
|  | sim\_dur\_months | FIXED | |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | *COSMIC-ABM* | | | | | | | | |  |  |
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|  | Parameter Variation Experiment Parameters: | | | | | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | | Value | | | | |  |  |  |
|  | Parameter | Type | | Min | Max | | Step | |  |  |  |
|  | sim\_dur\_6months | FIXED | |  |  |  |  |  |  |  |  |
|  | ShareWomenExperience | FIXED | |  |  |  |  |  |  |  |  |
|  | catchment\_mult | FIXED | | 1 | | | | |  |  |  |
|  | PerWRA | FIXED | |  |  |  |  |  |  |  |  |
|  | PerPregInitiation | FIXED | | 0.025 | | | | |  |  |  |
|  | DM\_months\_between\_visits | FIXED | |  |  |  |  |  |  |  |  |
|  | facilitiesSeenPerVisit | FIXED | |  |  |  |  |  |  |  |  |
|  | pregancyDuration | FIXED | |  |  |  |  |  |  |  |  |
|  | P4PN | FIXED | | 1 | | | | |  |  |  |
|  | P4P | FIXED | |  |  |  |  |  |  |  |  |
|  | produceOutputs | FIXED | |  |  |  |  |  |  |  |  |
|  | sim\_dur\_years | FIXED | |  |  |  |  |  |  |  |  |
|  | Delays | FIXED | | 1 | | | | |  |  |  |
|  | monthlyPregRate | FIXED | | 0.0167 | | | | |  |  |  |
|  | durationOfDMImpact | FIXED | | 1 | | | | |  |  |  |
|  | capacityRelaxation | RANGE | | 1 | 3 | | 1 | |  |  |  |
|  | initialTBA | FIXED | |  |  |  |  |  |  |  |  |
|  | initialGifts | FIXED | |  |  |  |  |  |  |  |  |
|  | LessPoor\_prop\_add | FIXED | |  |  |  |  |  |  |  |  |
|  | P4P\_NoBonusHarm | FIXED | |  |  |  |  |  |  |  |  |
|  | shorterPaymentPeriod | FIXED | |  |  |  |  |  |  |  |  |
|  | DmVisits0 | FIXED | |  |  |  |  |  |  |  |  |
|  | drugSharingthreshold | FIXED | |  |  |  |  |  |  |  |  |
|  | drugSharingAmt | FIXED | |  |  |  |  |  |  |  |  |
|  | DmVisits | FIXED | |  |  |  |  |  |  |  |  |
|  | DrugSharing0 | FIXED | |  |  |  |  |  |  |  |  |
|  | womenChoiceMods | FIXED | |  |  |  |  |  |  |  |  |
|  | DrugSharingB | FIXED | |  |  |  |  |  |  |  |  |
|  | occupancyEffects | FIXED | |  |  |  |  |  |  |  |  |
|  | FacilityATargets | FIXED | |  |  |  |  |  |  |  |  |
|  | FacilityBTargets | FIXED | |  |  |  |  |  |  |  |  |
|  | FacilityCTargets | FIXED | |  |  |  |  |  |  |  |  |
|  | n\_social | RANGE | | 2 | 6 | | 1 | |  |  |  |
|  | occupancyCushion | RANGE | | 0 | 2 | | 1 | |  |  |  |
|  | bypass | FIXED | |  |  |  |  |  |  |  |  |
|  | allowExpansion | FIXED | | 0//1//(allowExpansion\_bol)? 1:0 | | | | |  |  |  |
|  | b | RANGE | | 0 | 1.2 | | 0.2 | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
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|  | Function: writeHeaders | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Name | Value | | | |  |  |  |
|  | General | | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | | |  |  |  |
|  | Show at runtime | true | | | |  |  |  |
|  | Show name | true | | | |  |  |  |
|  | Function body | | | | |  |  |  |
|  | Body | //Write headers for facility level output file facilityoutputs.print("iteration, SimRun, Month, facilityName, "); facilityoutputs.print("AllBirths, inFacilityBirths, OutsideFacilityBirths, PaymentDelay, DMvisit, DrugShared, Months\_btw\_DM\_Visits, DelayMitigated, StrategyReceived, Capacity, Outreach, DrugAvail, TBAIncent, Gifts, Bonus, Kindness, ExpKindness,"); facilityoutputs.print("ConsTime, OOP, InterPersonQ, ExpInterPersonQ, occupancyCushion, PerPregInitial, capacityRelax, DrugSharingOn, MinDrugSharingThes, DrugSharingAmt, initialTBA, initialGifts, durationofDMVistEffect, P4P, Delays, LessPoorAdd, CatchMult,"); facilityoutputs.print("OccupancyEffectsOn, ModOn, n\_social ,fmod, homemod, othermod, tbamod,"); facilityoutputs.print("monthlyPregRate, Bypass, expansion,b, BypassedFrom, BypassedTo"); facilityoutputs.println(); | | | |  |  |  |
|  | Advanced | | | | |  |  |  |
|  | Access type | default | | | |  |  |  |
|  | System dynamics units | false | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Function: writeRunValues | | | | | |  |  |
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|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Return type: | Just action (returns nothing) | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Function body | | | |  |  |  |
|  | Body |  | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | default | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: runNum | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Initial value | 1 | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: months | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Variable: facilities | | | | |  |  |
|  |  |  |  |  |  |  |  |
|  | Name | Value | | |  |  |  |
|  | General | | | |  |  |  |
|  | Type | int | | |  |  |  |
|  | Show at runtime | true | | |  |  |  |
|  | Show name | true | | |  |  |  |
|  | Advanced | | | |  |  |  |
|  | Access type | public | | |  |  |  |
|  | Constant | false | | |  |  |  |
|  | Save in snapshot | true | | |  |  |  |
|  | System dynamics units | false | | |  |  |  |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  | *COSMIC-ABM* | | | | | |  |  |
|  |  | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Variable: iterationNum | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Name | Value | | | |  |  |  |
|  | General | | | | |  |  |  |
|  | Initial value | 1 | | | |  |  |  |
|  | Type | int | | | |  |  |  |
|  | Show at runtime | true | | | |  |  |  |
|  | Show name | true | | | |  |  |  |
|  | Advanced | | | | |  |  |  |
|  | Access type | public | | | |  |  |  |
|  | Constant | false | | | |  |  |  |
|  | Save in snapshot | true | | | |  |  |  |
|  | System dynamics units | false | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Button: button | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Name | Value | | | |  |  |  |
|  | General | | | | |  |  |  |
|  | Dynamic: Enable | getState() == IDLE | | | |  |  |  |
|  | Enabled | true | | | |  |  |  |
|  | Dynamic: Label | getState() == IDLE ? "Run Model" : "Top level agent" | | | |  |  |  |
|  | Label text | Run Model | | | |  |  |  |
|  | Lock | false | | | |  |  |  |
|  | Action | | | | |  |  |  |
|  | Action | run(); | | | |  |  |  |
|  | Position and size | | | | |  |  |  |
|  | x | 50.0 | | | |  |  |  |
|  | Width | 160.0 | | | |  |  |  |
|  | y | 70.0 | | | |  |  |  |
|  | Height | 80.0 | | | |  |  |  |
|  | Advanced | | | | |  |  |  |
|  | Show name | false | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Text File: facilityoutputs | | | | | |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Name | Value | | | |  |  |  |
|  | General | | | | |  |  |  |
|  | File mode | Write | | | |  |  |  |
|  | Text file name | ResourceReference: cosmic\_abm.calibration\_outputs.txt (Resolved: true) | | | |  |  |  |
|  | Text File Type | File | | | |  |  |  |
|  | Show at runtime | true | | | |  |  |  |
|  | Show name | true | | | |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | | | | | |  |  |
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