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/*Main loop of simulation model representing one model tick*/
LOOP WHILE (number of partners on platform > 0):
  /*Update features of agents and update the environment*/
  Decrease opportunities' remaining lifespan by 1
  Remove opportunities with a remaining lifespan of 0
  Create new opportunities according to their inter-arrival time
  LOOP FOR each partner:
    IF partner has an opportunity:
      /*Loop for Partners' reuse of existing services*/
      IF (partner has matching existing services) AND (service is affordable
        (payoff > cost)):
        Execute transaction
      ELSE:
        /*Loop for Partners' internal configuration of resources*/
        IF (partner owns the required resources to generate the service) AND
          (service is affordable):
          Execute transaction
        ELSE:
          /*Loop for partners' local search*/
          /*Partners share one of their resources with all of their linked
            partners; the shared resource can then be used by linked partners
            for mixing-and-matching*/
          IF (partner can rebundle its existing resources to generate a new
            service that matches the opportunity) AND (service is
            profitable):
            Partner generates the new service
            Execute transaction
            IF (partner is on-platform) AND (has linked partners off-
              platform):
              Send signal to those partners for joining the platform
            IF (partner is off-platform) AND (has linked partners on-
              platform):
              Send signal to those partners for leaving the platform
          ELSE:
            /*Loop for partners' distant search*/
            /*Partners share one of their resources with the entire
              ecosystem of partners; the shared resource can then be used
              by all other partners for mixing-and-matching*/
            IF (the partner finds a resource of partners in the ecosystem
              that in combination with three of its own resources meet the
              requirement) AND (the resulting service is profitable):
              The partners collaborate to generate the new service
              Execute transaction
              IF (partner is on-platform) AND (has linked partners off-
                platform):
                Send signal to those partners for joining the
                platform
              IF (partner is off-platform) AND (has linked partners on-
                platform):
                Send a signal to those partners for leaving the
                platform
            IF (number of signals of joining/leaving the platform) - (successful
              transaction off/on platform) > threshold:
              Partner joins/leaves the platform
          Increase timestep by one

  /*Update costs, profits, and the environment*/
  Costs and profits incurred per resource are assigned to partners
  Lifespan of utilized links between agents is increased, non-utilized links'
  lifespan is decreased
  Lifespan of used services is increased, non-used services' lifespan is decreased
  Outcome variables are updated

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