

MARATHON Project Management

Apr 4, 2018

CAA

<http://>

Project manager

Project dates

Jul 3, 2015 - May 7, 2019

Completion

24%

Tasks

197

Resources

3

This is an project management view of the pending features, tasks, and efforts to develop MARATHON 4.x over the next year.

Tasks

| Name | Begin date | End date |
|---|------------|----------|
| Spoon Christmas Leave 17 | 12/26/16 | 1/2/17 |
| Project Management-2017 | 1/3/17 | 1/6/17 |
| MARV Handoff | 1/3/17 | 1/6/17 |
| Comparative Verification (MARV) | 11/28/16 | 6/15/17 |
| MARV Methodology Development | 11/28/16 | 12/16/16 |
| Automated Verification Case Comparison Dev. | 12/5/16 | 12/22/16 |
| Phase 1 (Single-SRC Notional Data) | 1/9/17 | 1/27/17 |
| Max Utilization Case Comparison | 1/9/17 | 1/20/17 |
| Requirements Case Comparison | 1/23/17 | 1/27/17 |
| Phase 2 (Single-SRC Prior-Year TAA) | 1/30/17 | 2/10/17 |
| Composite Policy Capacity Case | 1/30/17 | 2/3/17 |
| Composite Policy Requirements Case | 2/6/17 | 2/10/17 |
| Phase 3 (Multi-SRC Prior-Year TAA) | 2/13/17 | 4/6/17 |
| Composite Policy Capacity Case | 2/13/17 | 3/30/17 |
| Composite Policy Requirements Case | 3/31/17 | 4/6/17 |
| Phase 4 (Multi-SRC Current-Year TAA) | 4/7/17 | 5/25/17 |
| Composite Policy Capacity Case | 4/7/17 | 5/19/17 |
| Composite Policy Requirements Case | 5/22/17 | 5/25/17 |
| Phase 5 (Brief Results) | 5/26/17 | 6/15/17 |
| Briefing Prep / Results Prep | 5/26/17 | 6/5/17 |
| MARV ARB / MARATHON Process Improvement | 6/6/17 | 6/6/17 |
| Study Transition (Hanson -> Spoon) | 6/7/17 | 6/15/17 |
| MARV Documentation | 6/16/17 | 7/14/17 |
| GovCloud Hosting | 4/20/17 | 5/17/17 |
| FOUO Large File Hosting via Amazon S3 | 4/20/17 | 5/3/17 |

Tasks

| Name | Begin date | End date |
|--|------------|----------|
| FOUO Web Server via Amazon EC2 | 5/4/17 | 5/17/17 |
| Long Term M4 Training | 8/21/17 | 9/26/17 |
| User Guide | 8/21/17 | 9/5/17 |
| Video Tutorials | 9/6/17 | 9/12/17 |
| Browser-based Tutorials | 9/13/17 | 9/26/17 |
| Draft Asynchronous Training | 9/18/17 | 9/22/17 |
| ARNORTH VRC Support | 6/12/17 | 8/11/17 |
| VRC Flow Simulation | 6/12/17 | 7/19/17 |
| Notional Results | 7/10/17 | 8/10/17 |
| VRC Offsite | 8/11/17 | 8/11/17 |
| Spoon Summer LV 17 | 8/14/17 | 8/25/17 |
| Post Processing - TAA PIP | 6/8/17 | 8/21/17 |
| Intern Training / Mentoring / Peer Programming | 6/8/17 | 8/21/17 |
| Clojure Training | 6/8/17 | 6/23/17 |
| Automate PPTX Slide Generation | 6/26/17 | 7/21/17 |
| Integrate With PROC Post Processor | 7/24/17 | 8/18/17 |
| ARNORTH Hurricane Support | 8/28/17 | 9/8/17 |
| Award Nominations | 9/27/17 | 9/29/17 |
| AMSO M&S MARATHON 4 | 9/28/17 | 9/29/17 |
| AMSO M&S MARV | 9/27/17 | 9/27/17 |
| Debugging / Maintenance 2017 | 6/5/17 | 2/26/18 |
| Release 4.1.1 | 6/5/17 | 9/4/17 |

Tasks

| Name | Begin date | End date |
|---|------------|----------|
| Fixed Memory Leak, Optional Debugging, Performance + | 6/5/17 | 6/5/17 |
| Requirements Analysis Policy Edge Case | 6/27/17 | 6/27/17 |
| Improved Requirements Analysis Algorithm | 6/27/17 | 9/1/17 |
| Scripting Menu | 8/31/17 | 9/4/17 |
| Refactored core simulation libraries, migrated to SPORK | 8/3/17 | 8/8/17 |
| Improved Requirements Analysis Bound Estimation | 9/1/17 | 9/4/17 |
| Initial Public Release | 9/4/17 | 9/4/17 |
| Release 4.1.2 | 9/5/17 | 9/18/17 |
| Parallel Requirements Analysis | 9/5/17 | 9/5/17 |
| Debugged Incorrect Supply Distribution for RA | 9/6/17 | 9/8/17 |
| Finite/Infinite NonBog Policy Bugfix | 9/12/17 | 9/12/17 |
| Graphical User Interface / NightClub IDE | 9/12/17 | 9/18/17 |
| Release 4.1.3 | 9/27/17 | 11/6/17 |
| GUI Asynchronicity Error Fixes | 9/27/17 | 10/6/17 |
| bogbudget update fix | 10/9/17 | 10/25/17 |
| requirement Analysis policy fix | 10/20/17 | 11/6/17 |
| deterministic unit-index sorting criteria deterministic unit-index sorting criteria | 10/27/17 | 11/1/17 |
| Context-menu for fast gui tasks | 10/30/17 | 11/1/17 |
| GUI Splash Screen + Logo | 11/1/17 | 11/1/17 |
| Clojure CONJ 2017 (Baltimore) | 10/10/17 | 10/13/17 |
| Spec Training (Automated Testing Library) | 10/10/17 | 10/10/17 |
| CONJ Conference | 10/11/17 | 10/13/17 |
| Release 4.1.4 | 11/16/17 | 12/4/17 |
| deployability status fix | 11/16/17 | 11/16/17 |
| bogbudget fix | 11/16/17 | 11/16/17 |
| Finite Cycle Length Goal fix | 11/28/17 | 11/28/17 |
| requirements analysis error propogation | 12/4/17 | 12/4/17 |
| Release 4.1.5 | 12/11/17 | 2/6/18 |

Tasks

| Name | Begin date | End date |
|---|------------|----------|
| Continuous Delivery / Verification (LambdaCD) | 12/11/17 | 12/11/17 |
| TAA 21-25 Policy templates | 12/21/17 | 12/21/17 |
| Requirements analysis defaultLastDay fix | 1/30/18 | 2/1/18 |
| Non-existent Composite policy record fix | 2/1/18 | 2/1/18 |
| Added demandtrend fields for deltaT | 2/2/18 | 2/2/18 |
| Daily interpolated demandtrend default | 2/2/18 | 2/2/18 |
| Updated proc to new demandtrends | 2/6/18 | 2/6/18 |
| Release 4.1.6 | 2/22/18 | 2/26/18 |
| Automated HighWater Scripting | 2/22/18 | 2/23/18 |
| Bugfix DemandTrends DeltaT | 2/23/18 | 2/23/18 |
| Highwater Batch GUI | 2/23/18 | 2/26/18 |
| Concurrent TAA 21-25 Support | 9/11/17 | 3/30/18 |
| M4 Training-2017 | 10/2/17 | 11/6/17 |
| On-site MARATHON + Clojure Training | 10/2/17 | 10/6/17 |
| Ad-Hoc MARATHON TraiAd-Hoc MARATHON Training ning | 11/6/17 | 11/6/17 |
| CAA Site Visit Q1-18 | 1/29/18 | 2/2/18 |
| ARNORTH JRPC Support | 12/22/17 | 5/1/18 |
| NEO Flow Simulation Prototype | 12/22/17 | 1/5/18 |
| Population Modeling | 2/7/18 | 3/1/18 |
| Airline Analysis | 1/29/18 | 2/16/18 |
| JRPC Draft Results | 1/8/18 | 1/12/18 |
| RFI NORTHCOM, ARNORTH | 1/12/18 | 2/9/18 |
| NEO Flow Simulation Update | 2/26/18 | 4/5/18 |
| CAA Pitch | 3/5/18 | 3/5/18 |
| ARNORTH Branch Briefing | 3/16/18 | 3/16/18 |

Tasks

| Name | Begin date | End date |
|--|------------|----------|
| Key Resolve 18 TTX | 3/26/18 | 3/29/18 |
| ARNORTH G3/G5 Brief | 4/11/18 | 4/11/18 |
| ARNORTH DCG Brief | 4/18/18 | 4/18/18 |
| ARNORTH CG Brief | 5/1/18 | 5/1/18 |
| Rotational Analysis Capabilities | 5/2/18 | 10/17/18 |
| SRM VnV | 5/2/18 | 6/2/18 |
| Portfolio Analysis | 6/4/18 | 6/15/18 |
| Stochastic Demand Futures Integration (Helmet) | 6/4/18 | 6/8/18 |
| Force Mix Composition Analysis Integration (Stoke) | 6/11/18 | 6/15/18 |
| Force Structure Design of Experiment | 10/11/18 | 10/17/18 |
| Force Structure Optimization (TMAS) | 10/11/18 | 10/17/18 |
| Research And Development | 6/18/18 | 5/6/19 |
| PreProcessing RD | 6/18/18 | 7/13/18 |
| Project Validation Tests | 6/18/18 | 6/29/18 |
| Project Version Control | 7/2/18 | 7/13/18 |
| Analysis RD | 7/16/18 | 2/15/19 |
| PostProcessing | 7/16/18 | 7/27/18 |
| Update Proc to Accept new Data Schemas | 7/16/18 | 7/27/18 |
| Modify Proc to Read Compressed Marathon Histories | 7/16/18 | 7/27/18 |
| Large Scale Experimentation | 7/16/18 | 10/10/18 |
| Experiment Definition | 7/16/18 | 8/15/18 |
| Automated Experimentation | 8/16/18 | 9/12/18 |
| Experimental Results Reduction | 9/13/18 | 10/10/18 |
| Client-side Resourcing Panel Support (TADMUDI) | 10/11/18 | 10/17/18 |
| Scalable Run Distribution | 10/11/18 | 2/15/19 |
| Local Machine (simulated cluster) | 10/11/18 | 11/12/18 |
| CAA Cluster | 11/13/18 | 12/13/18 |

Tasks

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|---|------------|----------|
| NPS Cluster | 12/14/18 | 1/15/19 |
| Army High Performance Computing Labs | 1/16/19 | 2/15/19 |
| Look Ahead (Global Optimization) | 10/11/18 | 10/24/18 |
| Front End RD | 2/18/19 | 5/6/19 |
| Project Data Management | 2/18/19 | 5/6/19 |
| Automated Project Setup | 2/18/19 | 2/18/19 |
| Supply Utilities | 2/18/19 | 3/15/19 |
| Interactive Supply Creation | 2/18/19 | 3/1/19 |
| Interactive Supply Setup | 3/4/19 | 3/15/19 |
| Demand Utilities | 3/18/19 | 4/1/19 |
| Interactive Demand Timeline | 3/18/19 | 4/1/19 |
| Policy Utilities | 4/2/19 | 5/6/19 |
| Interactive Policy Creation | 4/2/19 | 4/15/19 |
| Interactive Policy Visualization | 4/16/19 | 4/29/19 |
| Interactive Behavior Tree Constructor | 4/30/19 | 5/6/19 |
| Interactive Real-Time Visualization (TBD) | 5/2/18 | 9/20/18 |
| Completed | 7/3/15 | 1/6/17 |
| Capacity Analysis (2016) | 7/3/15 | 10/14/16 |
| Requirements Analysis (2016) | 10/24/16 | 11/23/16 |
| Sustainable Readiness Rules (2016) | 1/20/16 | 6/15/16 |
| Local Demand Effects | 4/8/16 | 6/1/16 |
| Meta Relations | 1/20/16 | 6/15/16 |
| Front End (2016) | 8/1/16 | 9/30/16 |
| Primitive Graphical User Interface | 8/1/16 | 8/5/16 |
| Integrate "proc" with front end GUI | 9/6/16 | 9/30/16 |
| PreProcessing (2016) | 9/19/16 | 9/30/16 |
| Enable Support For Legacy Schemas | 9/19/16 | 9/30/16 |

Tasks

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|---|------------|----------|
| Capacity Analysis Verification (2016) | 10/3/16 | 10/14/16 |
| Max Utilization Policy VNV | 10/3/16 | 10/7/16 |
| Composite Policy VNV | 10/10/16 | 10/14/16 |
| Requirements Analysis (RA) - 2016 | 10/17/16 | 11/23/16 |
| RA Implementation | 10/17/16 | 11/3/16 |
| RA Verification | 11/7/16 | 11/23/16 |
| Visualization (2016) | 9/2/15 | 9/9/16 |
| Java 2D Prototype HUD | 9/2/15 | 11/27/15 |
| Dynamic Plot Implementation | 10/2/15 | 2/11/16 |
| Dynamic Scatter Plot | 10/26/15 | 12/22/15 |
| Dynamic Area Plot | 11/30/15 | 2/11/16 |
| Dynamic "Trail" Plot | 10/2/15 | 1/7/16 |
| World Map Implementation | 12/10/15 | 7/12/16 |
| Geographic Locale Definitions | 12/11/15 | 12/11/15 |
| Home Station Definitions | 12/11/15 | 12/11/15 |
| Nested CONUS Map | 12/14/15 | 12/15/15 |
| Animated Entity Tokens | 1/18/16 | 2/29/16 |
| Animated Entity Paths | 2/15/16 | 2/26/16 |
| Animated Geographic Containers | 2/22/16 | 3/1/16 |
| Zoomable User Interface Development | 12/10/15 | 7/12/16 |
| Piccolo2d Library Adaptation | 11/13/15 | 12/25/15 |
| clojure API wrappers | 11/13/15 | 12/25/15 |
| Patch Chart | 12/11/15 | 7/15/16 |
| Animated Entity State Patches | 12/11/15 | 1/22/16 |
| Static HTML Rendering | 7/11/16 | 7/15/16 |
| Portable Animation Output | 7/25/16 | 9/9/16 |
| MP4 Export Library / FFMPEG Integration | 7/25/16 | 8/5/16 |
| JCodec MP4 encoder integration | 7/25/16 | 8/5/16 |
| Frame Capture | 8/8/16 | 8/19/16 |

Tasks

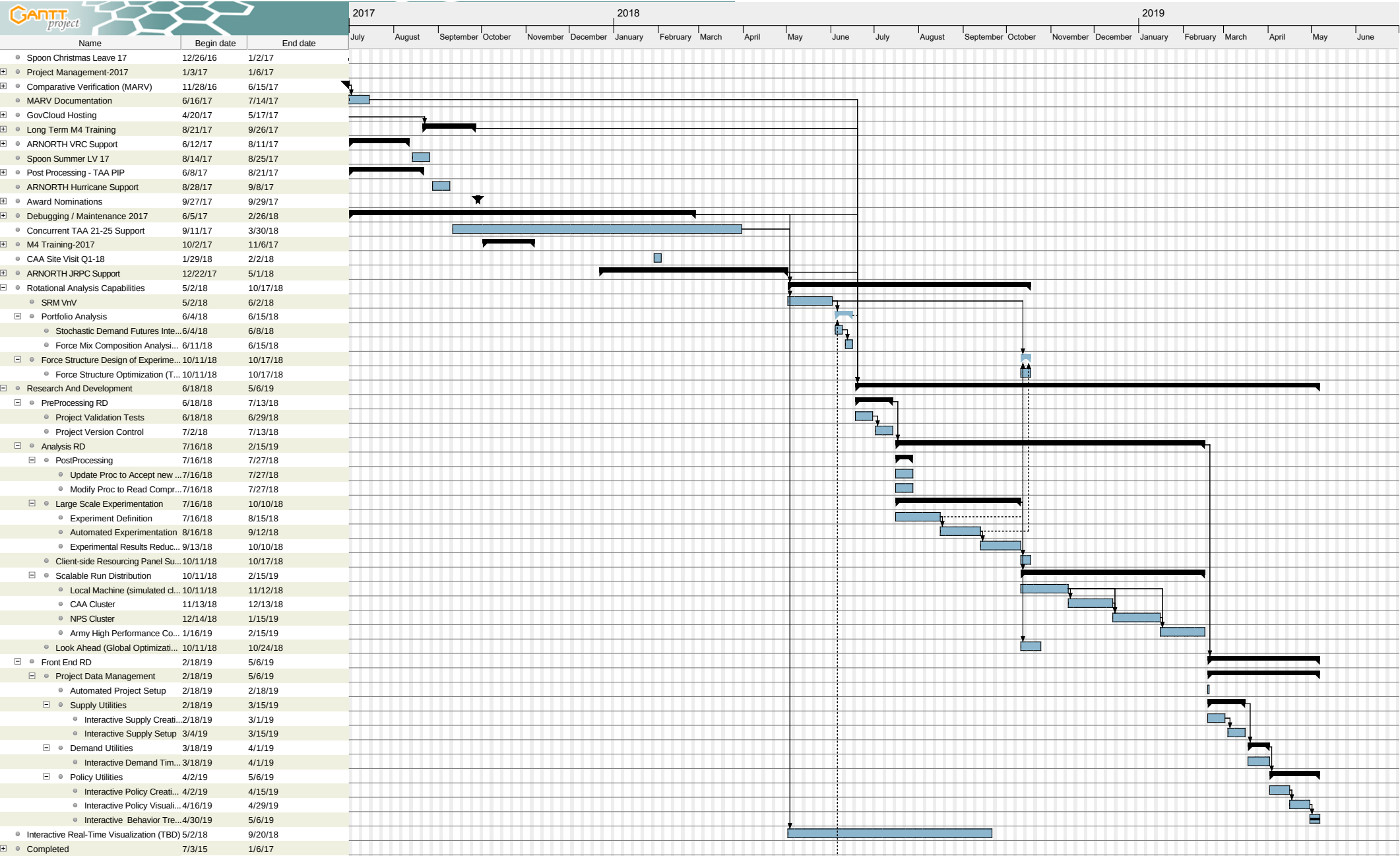
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| Name | Begin date | End date |
|-------------------------------------|------------|----------|
| Frame-by-frame rendering | 8/15/16 | 8/19/16 |
| Event-stepped Piccolo2d Animation | 8/22/16 | 9/9/16 |
| Publication (2016) | 9/12/16 | 11/3/16 |
| AORS Submission | 10/3/16 | 10/3/16 |
| AORS Presentation | 11/1/16 | 11/3/16 |
| Project Management-2016 | 9/12/16 | 9/20/16 |
| 2018 Planning | 9/12/16 | 9/20/16 |
| Training-2016 | 9/5/16 | 11/4/16 |
| On-site MARATHON + Clojure Training | 9/5/16 | 9/9/16 |
| Ad-Hoc MARATHON Training | 10/31/16 | 11/4/16 |
| Documentation (2016) | 5/4/16 | 1/6/17 |
| Whitepaper | 7/26/16 | 8/8/16 |
| MARTHONomicon Literate Program | 5/4/16 | 1/6/17 |
| Scripting Examples | 9/12/16 | 9/19/16 |

Resources

| Name | Default role |
|------------------|----------------------|
| Tom Spoon | Delusional Architect |
| Craig Flewelling | Fancy Ditch Digger |
| Rick Hanson | Just Works Here |

Gantt Chart



Resources Chart

