

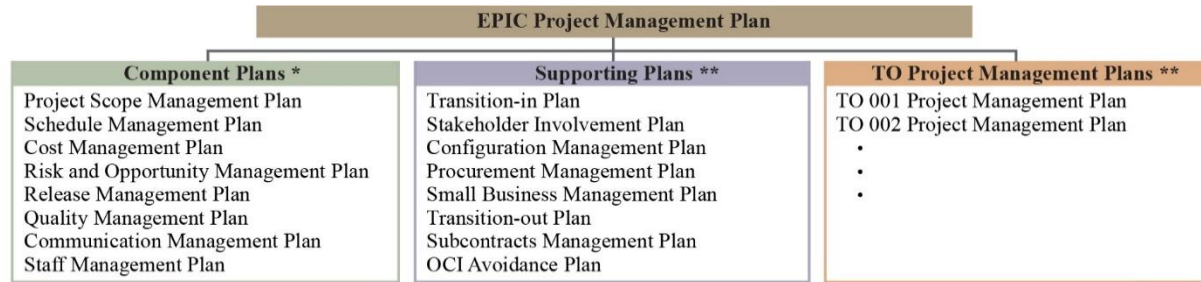
# EPIC Contract Program Management Plan

2022 EPIC Summer Workshop



# Project Management Plans

The 100% completed EPIC Contract Project Management Plan (PMP) consists of the following component plans, supporting plan, and Task Order PMPs and the Project Management Plans for both Task Order 1 and Task Order 2. The following documents have been delivered as part of this completion:



\* Component Plans are within the PMP

\*\* Supporting Plans are external to the PMP but necessary for Project Execution

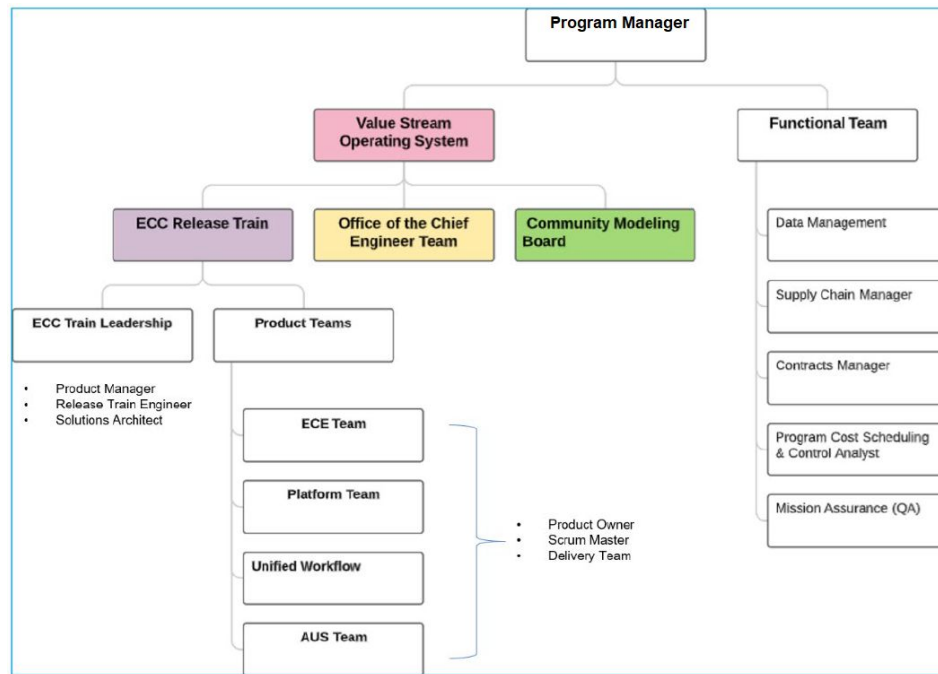
\*\*\* Task Order (TO) Plans supplement the EPIC Plan and contain TO specific information

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# PMP Highlights - Component Plans

## Staffing / Organization:

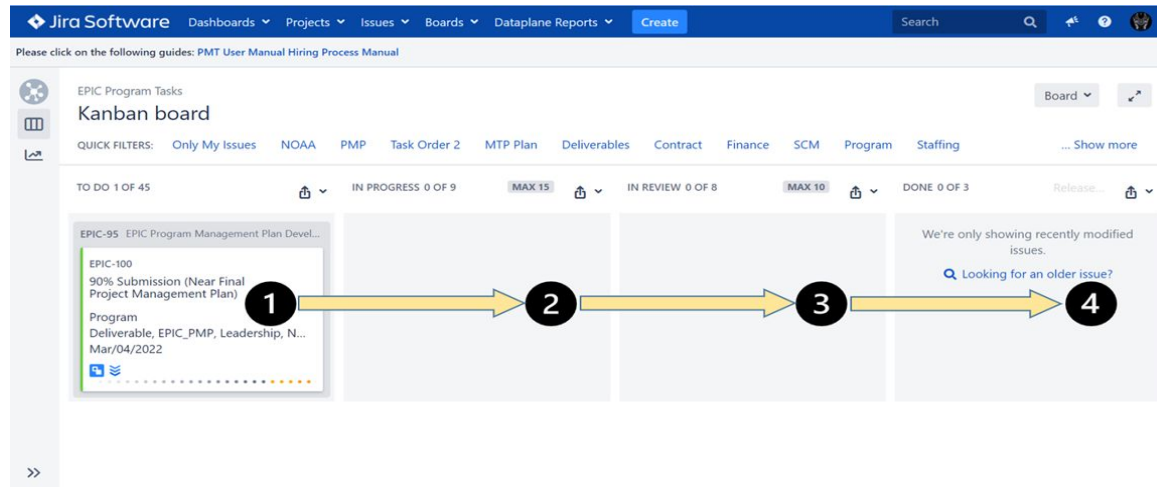
- 95% of staff is on-boarded (36 out of 38)
- Organizational Structure consists of a Value Stream and a Functional Stream
- Implementing 2x Weekly Program Status meetings between Raytheon and EPIC Program Team (EPT)
- Implementing Weekly Technical Exchange meetings with Raytheon and EPIC Stakeholders
- Bi-Monthly Contract meetings with Raytheon, EPT, and Acquisition and Grants Office (AGO)
- Deliver Weekly and Monthly Status Reports, along with Spend Plans, across all Task Orders



# PMP Highlights - Component Plans

## Project Scope Management:

- Developed EPIC Scope Management Methodology, including the Work breakdown Structure (WBS)
- Developed and implement “Definition of Done” for completed project and SAFe deliverables
- Task Order (TO) Performance Work Statement (PWS) requirements defined as tickets in Jira, and aligned to SAFe deliverables also defined as Jira tickets



# PMP Highlights - Component Plans

## Risk Management

- Developed a Risk template in RTX JIRA to track all Risks across the EPIC Program.
- Established monthly reviews of the EPIC Program Risk Registry, with NOAA EPT.
- In PI 3 we introduced the concept of Team and Train Level Risks being incorporated into the ECC NOAA JIRA project.
- In PI 3 we will look at reworking the program risks to match the [NOAA Project Risk Management Reference card](#)

Filter Results: EPIC Current PI Risks - All					
T	Key	Summary	Risk Statement	Status	Assignee
!	ECC-40	(ECE) Not having access to the platforms that will be called for displaying metrics.	If we do not have access to these various platforms, then we will not be able to design and implement this dashboard widget.	CLOSED	Jamiel Farhat
!	ECC-43	Access to all tier 1 HPC Systems	If team members don't have access to the HPC systems, then the work will be delayed or blocked	RESOLVED	Cam Sherrell
!	ECC-165	Need Resources to Support SRW & MRW	If resources don't onboard, we will not have capacity to support SRW & MRW	OWNED	Stylios Flamouris
!	ECC-168	Meetings with 3rd Party - ACIO	If the 3rd party doesn't happen in a timely manner, work will be delayed/blocked	ACCEPTED	Keven Blackman
!	ECC-163	ELK Components Fail	If one of the ELK components fail to run, we will need to find a new solution	MITIGATED	Marcus Delponte



### NOAA Program Risk Management Reference Card

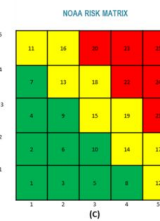
Updated 02/04/2020



#### Process:

1. Select Likelihood (L) rating from Table 1. Evaluate using current controls.

Table 1		
Level	Likelihood	(L)
<b>5 - Extremely Likely</b>	Current controls will not prevent this risk	81% < L < 100%
<b>4 - Likely</b>	Current controls have significant uncertainties	61% < L < 80%
<b>3 - Moderately likely</b>	Current controls have some uncertainties	41% < L < 60%
<b>2 - Not likely</b>	Current controls have minor uncertainties	21% < L < 40%
<b>1 - Extremely unlikely</b>	Strong controls in place	0% < L < 20%



2. Select Consequence (C) rating from Table 2 based on both the reporting guidance, as well as the category.

3. Capture data in NOAA Risk Register.

#### TIME TO IMPACT

Near	Impact felt this fiscal year
Mid	Impact felt next fiscal year
Far	Impact felt in 3 to 5 years

↑	Worsening
↔	Unchanged
↓	Improving

TREATMENT	
A	Accept
W	Watch
M	Mitigate
S	Share or Transfer
AV	Avoid

# PMP Highlights - Component Plans

## Quality Management

### Contract Deliverables

- All documentation will go through the Raytheon Document Management (DM) to ensure proper formatting and structure.
- The Raytheon Quality Engineer and a member of the Office of the Chief Engineer (OCE) will review all deliverable documents for completeness, technical accuracy, and for consistency internally and with other contractual documents, prior to submission to the government.
- External-facing documentation will be reviewed by the Raytheon PM, and member of the OCE, and then the EPIC PM prior to submission to the broader stakeholder community.

### Engineering (Architecture, Code, Design, and System) Quality

- Raytheon has established the EPIC System Engineering Council (ESEC). The purpose of the ESEC is to develop and take ownership of a collective set of standards and compliance requirements that the program will follow.

### Flow Quality

- Raytheon is using JIRA to manage the flow of work between EPICS (agile term), Features, and User Stories for Scrum teams.
- The JIRA model ensures that all User Stories have Acceptance Criteria, are tied to a Feature, have points assigned (estimations), and have been approved by the Product Owner / Scrum Master prior to being worked. All this help to ensure that the quality of the flow of the work.

The screenshot shows the JIRA interface for the EPIC Systems Engineering Council Home page. The page title is "EPIC Systems Engineering Council Home" and it was created by Peter Plakhan on April 07, 2022. The page content includes a welcome message, a note about process updates, and two main sections: "ESEC Processes" and "OPEN ESEC Work Items".

**ESEC Processes**

- Feature Engineering
- Issue Creation and Approval
- Issue Workoff Process
- SAFE PI Planning and Execution
- Sprint Planning
- Sprint Retrospectives
- What is the ESEC

**OPEN ESEC Work Items**

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
No issues found Refresh										

At the bottom of the page, there is a "Like" button and a "Write a comment..." text area.

# Stakeholder Involvement Plan - Highlights

Four groups of Stakeholders were identified:

Stakeholder Category	Stakeholder Description	Engagement Method
NOAA Environmental	Stakeholders in this category consist of key members and individuals that are part of the various NOAA Environmental services (i.e., NOAA Modeling Board, Operations Centers, NWS/OAR)	SAFe/Agile, In-person meetings, Individual engagement
UFS Working Groups	Stakeholders in this category consist of key personnel on the EPIC team, including members of integral steering committees (i.e., Developmental Testbed Center (DTC), UFS R20-02R Project, Unified Forecast System (UFS) working groups etc.).	SAFe/Agile, In-person meetings, Individual engagement, engagement on Working Groups
Weather Enterprise: Government	Stakeholders in this category consist of individuals and external entities, and other government agencies outside of NOAA (Congress, NASA, US Navy, NCAR, DTC, etc.) that are generating products or services that add value to the Weather Enterprise	Public Relations, social media, Community Modeling Board
General Public	Stakeholders in this category consist of individuals and external stakeholders, outside the Federal Government, gained through community outreach and engagement. Examples would be American Meteorological Society (AMS), Universities, Graduate Students, Private sector companies in the Weather field.	Public Relations, social media, digital marketing, Conferences

# Configuration Management Plan - Highlights

- The Configuration Management Lead manages scope, progress, dependencies, and risks associated with the overall releases. Having a central focal point will make sure that the end-to-end lifecycle of the release is being tracked through completion.
- The Configuration Management team collaborates with UFS Code Managers across NOAA, to manage the release scope and understand how EPIC stakeholders will integrate into the overall release goals. They also facilitate collaboration by attending daily meetings, communicate with developers and reviewers, manage peer-reviews, and track regression test completion.
- Collaboration points during release planning cycle focus on the architectural requirements, selection criteria, documentation, and release objectives that all support the overall release goals.
- Configuration Management standards are implemented so all EPIC-managed UFS repositories conform to an evaluation process that consists of peer-reviews, commits, security standards, and documentation.



# Scaled Agile Framework - Highlights

- Conduct 3-Month Program Increments (PIs), with PI Planning week, 5 bi-weekly Sprints, and Inspect & Adapt.
- Track the Team Backlogs for each Agile Team, including assigned Features, Objectives, and Stories, on a weekly basis.
- Conduct Program Backlog review meetings with the EPT, Agile Team Product Owners (Pos), and EPIC Stakeholders, towards the end of each PI.

The screenshot displays the 'EPIC Program Increment 5' dashboard. It includes a 'Welcome to PI 5' section with a schedule overview, a 'Key Dates' table, and a 'PI Information' section with sub-sections for 'PI Planning Details' and 'PI Execution Status'.

**Welcome to PI 5**  
This program increment is scheduled to run from **27 Jun 2022** through **02 Sep 2022**. The PI Planning session takes place on **21 Jun 2022** - **24 Jun 2022**. BD

Sprint	Dates (M-F)	Capacity Busters
S.1	6/27/22 - 7/08/22	Independence Day - 7/4/22
S.2	7/11/22 - 7/22/22	
S.3	7/25/22 - 8/05/22	
S.4	8/08/22 - 8/19/22	
S.5	8/22/22 - 9/02/22	
SIP	9/05/22 - 9/09/22	<b>PI 6 Planning: 9/06/22 - 9/08/22</b>

**PI Information**

**PI Planning Details**

- PI 5 Candidate Feature List
- PI 5 Planning Agenda
- PI 5 Planning Adjustments
- PI 5 Vote of Confidence
- PI 5 Planning Retrospective

**Presentations**

- EPIC PI5 Planning Day 1.pptx
- EPIC PI5 Planning Day 2.pptx
- EPIC PI5 Planning Day 3.pptx

**PI Execution Status**

**Team Artifacts**

Objectives, Dependencies, Risks Dashboard	Sprints
AUS Team Objectives, Dependencies, Risks Board	AUS Team Kanban Board
LWJ Team Objectives, Dependencies, Risks Board	LWJ Team Kanban Board
ECC Team Objectives, Dependencies, Risks Board	ECC Team Kanban Board
Platform Team Objectives, Dependencies, Risks Board	Platform Team Kanban Board

**Train Artifact**

Date	
PI 5 Retrospective Action Items	27 Jun 2022 through 02 Sep 2022
PI 5 Features Implementing Status	27 Jun 2022
Train Sprint Pages and Demo Schedule	27 Jun 2022 02 Sep 2022
ECC Train Inspect and Adapt Skides	27 Jun 2022 02 Sep 2022
ECC Train Inspect and Adapt Full Solution Demos	24 Jun 2022

# EPIC 5 Year Contract Strategic Plan

- Held a full day Retreat for EPIC Program leadership to create 5 Year EPIC Program Roadmap, which show the program maturity, via milestones, across each Contract Year (CY).
- Aligned the Contract Strategic Plan with the EPIC and UFS Strategic Plans, along with the NOAA 2021 Priorities for Weather Research report.
- Align the Contract Strategic Plan with Raytheon's vision for developing, sustaining, and evolution of the EPIC infrastructure, to be used for fostering weather modeling innovations in the Cloud.

