

Hope is not a strategy...

2021 NASA Cost & Schedule Symposium

A New Schedule Analytics Tool

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NASA HQ OCFO SID



4-D Risk Corporation



Tecolote



FK&A





NASA's Desire For Improved Program and Project Management

- In recent years, several of NASA's highest profile missions experienced challenges in cost and schedule growth.
- NASA recently published a Corrective Action Plan (CAP) with initiatives to improve and mature NASA program and project management policies and processes, including planning, development, and analysis.

Identified Needs:

• **Schedule Database**

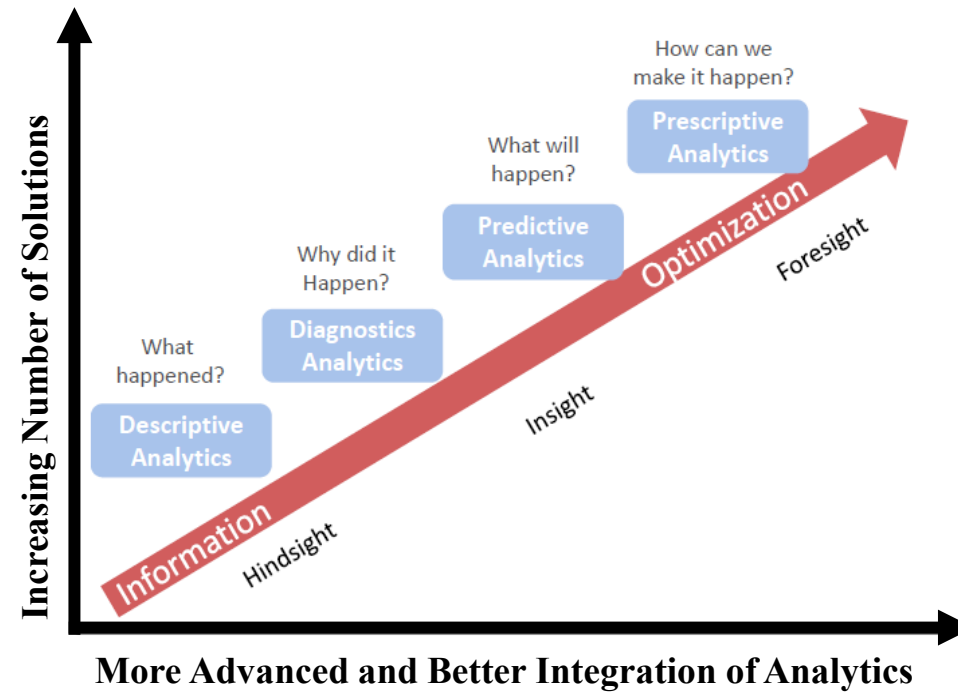
- Collect NASA program and project schedules for completed and current missions and technology developments
- Provide the schedule management community with access to historical and analogous schedules to aid in the planning and development of schedules for future missions

• **Schedule Data Analytics Reporting Tool**

- Build upon existing schedule assessment tools for improved project management
- Report important and relevant metrics
- Simultaneously analyze and report on multiple schedules
- Provide heuristics trends



Successful Program Management: Modernization of Analysis Environment

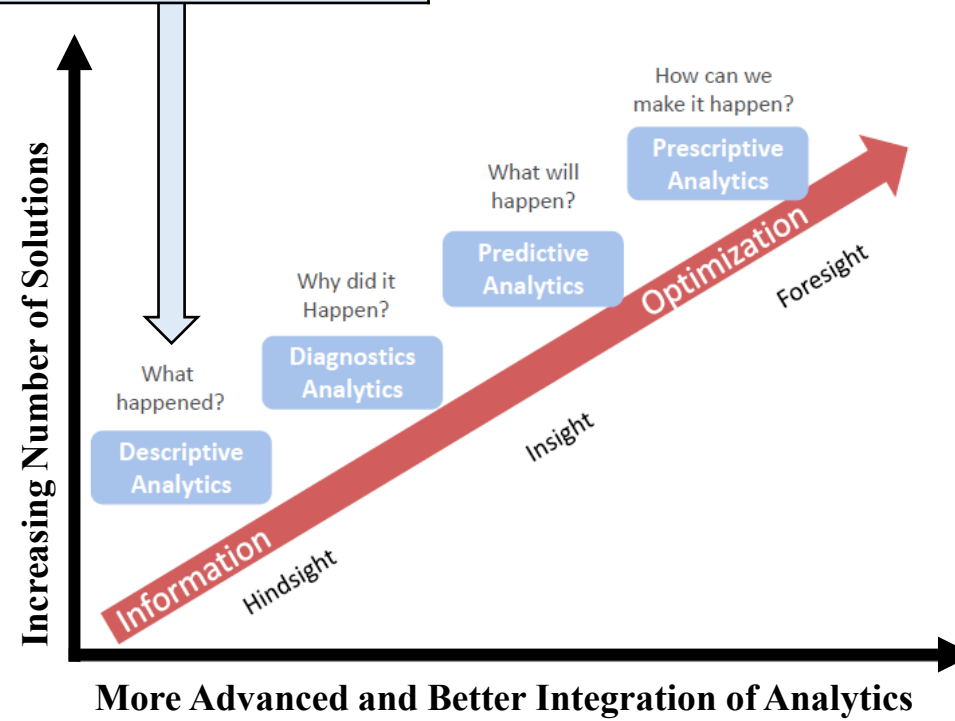




Successful Program Management: Modernization of Analysis Environment

Current Environment

- **Descriptive Analytics**
 - What happened?
 - What was the cause?
- Slow Turnaround
- Unstructured Information
- Reactive

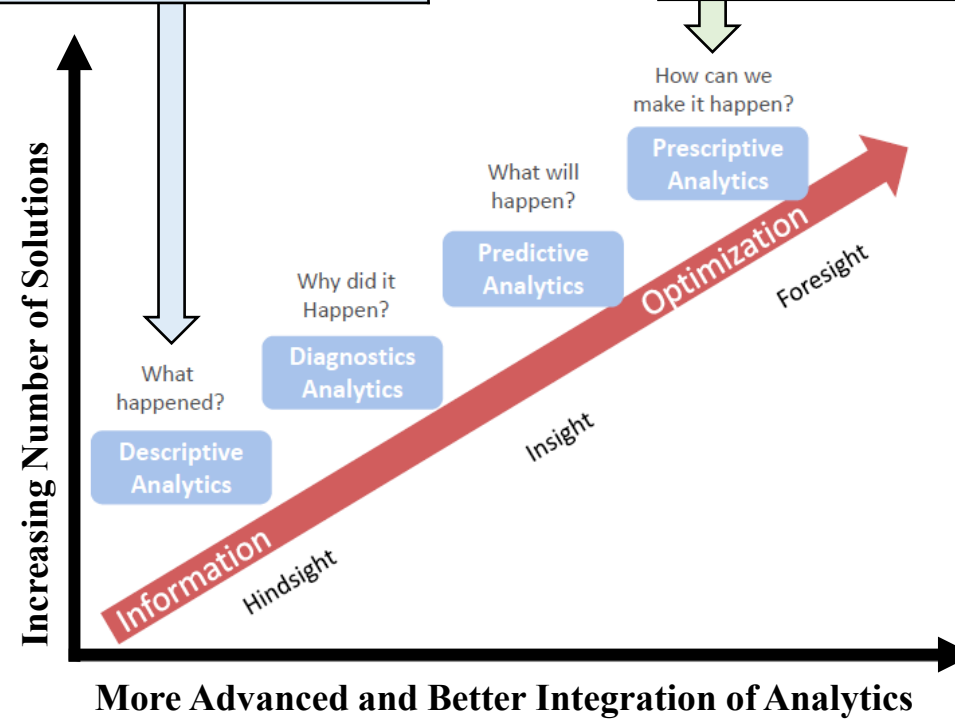




Successful Program Management: Modernization of Analysis Environment

Current Environment
<ul style="list-style-type: none">• Descriptive Analytics<ul style="list-style-type: none">• What happened?• What was the cause?• Slow Turnaround• Unstructured Information• Reactive

Desired Environment
<ul style="list-style-type: none">• Prescriptive Analytics<ul style="list-style-type: none">• What <i>may</i> happen?• Where are pending issues?• Where is performance poor?• Quicker Turnaround• Focused Insight• Proactive

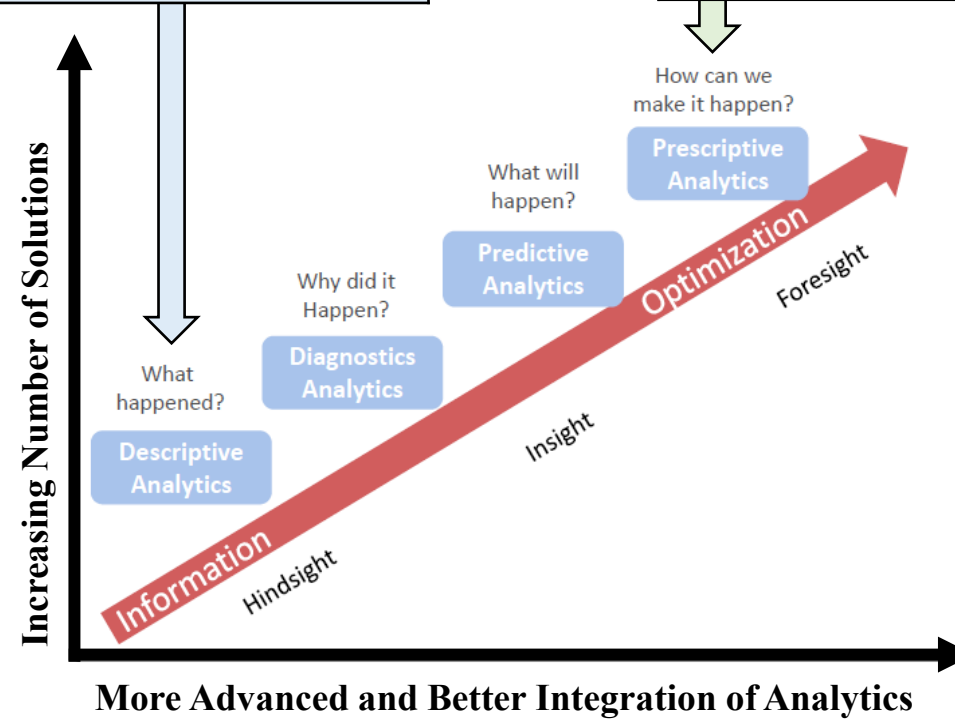




Successful Program Management: Modernization of Analysis Environment

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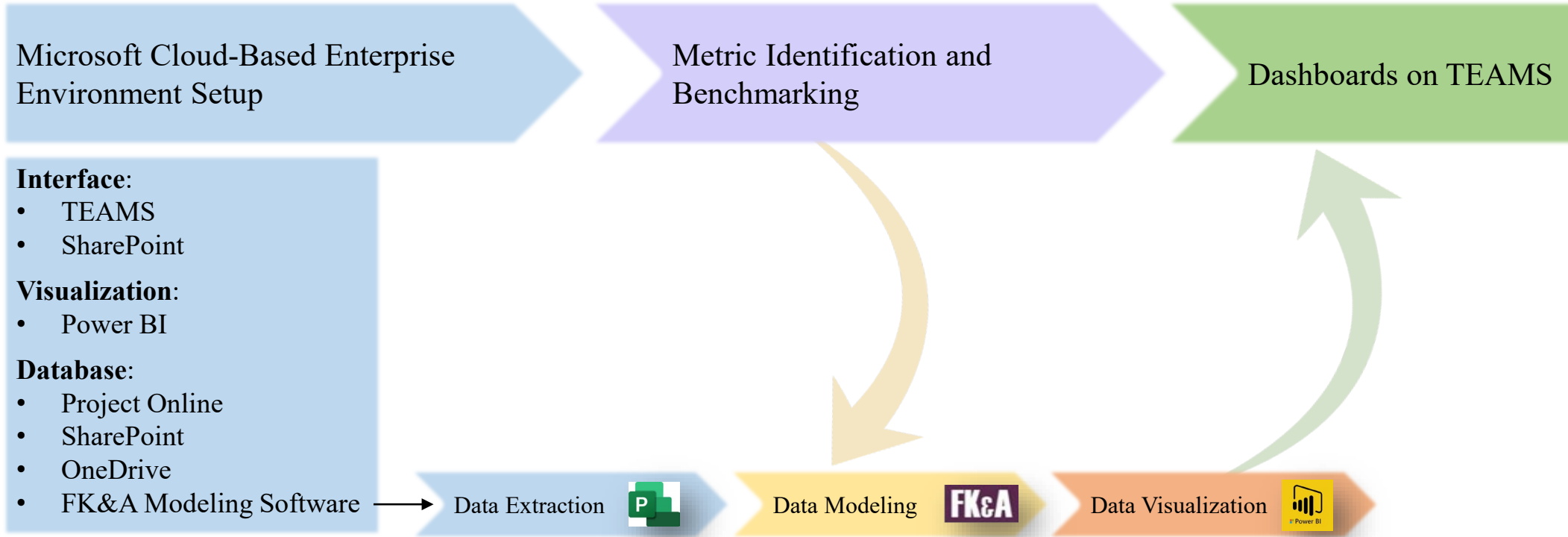
Achieving **Prescriptive Analytics** requires more advanced methods and better integration of analytics.



NASA Schedule Database Development Process

Objective: In 2019 NASA tasked 4-D Risk to implement a schedule database and cloud-based analytics tool.

Process:

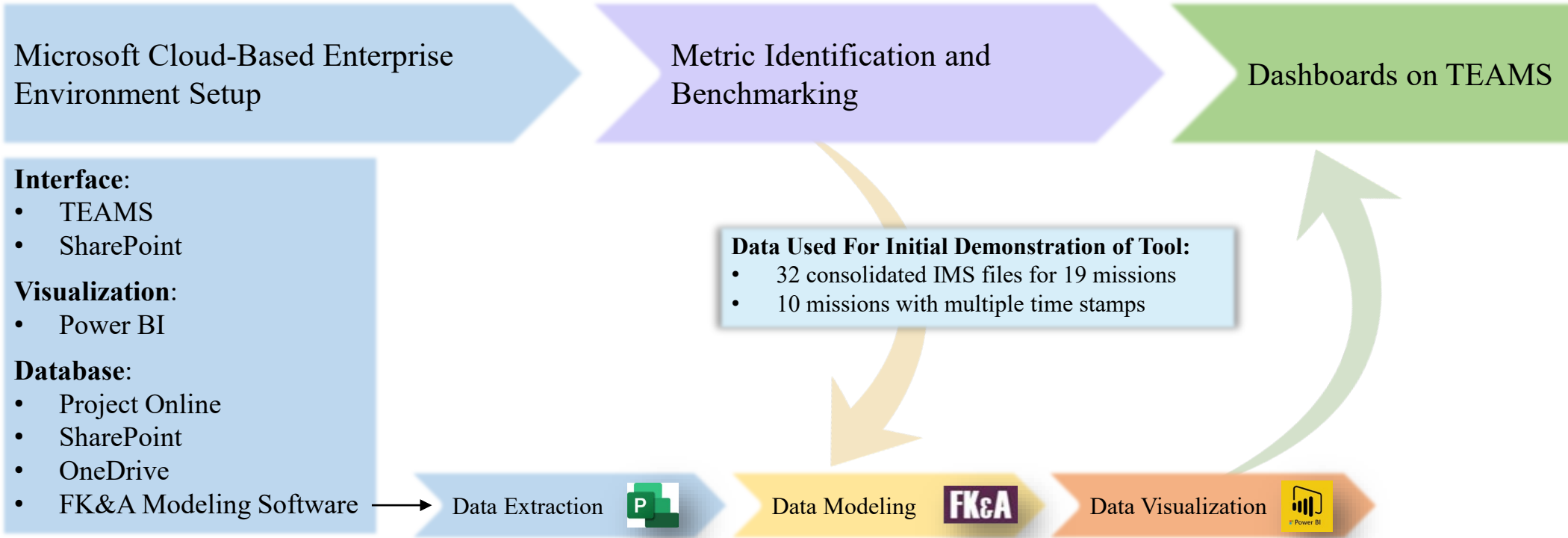




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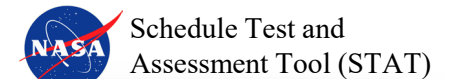
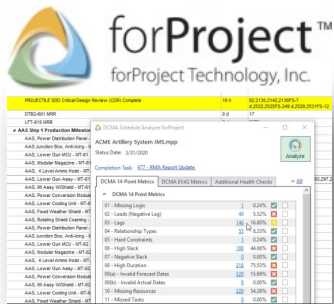


- Capability Goals:**
- Streamlined file submission process for multiple submitters
 - Rapid analysis of schedule metrics to assess and identify NASA best practices
 - Robust ability to quickly add and modify reports



Metric Identification and Benchmarking

- Survey of existing schedule analytics tools revealed inconsistent and disparate metrics and benchmarks.
- Non-uniformity of existing tools is due to existing metrics being purpose-driven for each individual tool.
- Existing tools are all standalone tools lacking the capability to analyze across a portfolio of project files.
- Working with NASA HQ, a consolidated list of metrics was created, identifying important and relevant metrics and threshold values tailored for NASA.



Schedule Health Check

Caution: Color ratings should not be interpreted as "Pass/Fail", rather use as indicators for further analysis.

Using Baseline: **Current** Filter: All Tasks

Schedule Status

Description:	None - within 5 working days (over)
Current Start:	6/14/2016
Current Finish:	3/31/2017
Appropriate Remaining Work Days:	2033
Number of Schedule Files Included in or Linked to this Project:	2
Status Date:	2/24/2016

Task and Milestone Count (Note: These counts exclude summary tasks)

Description	Count	% of Total
Total Tasks and Milestones	1585	
Completed Tasks and Milestones	1063	54%
To-Do Tasks and Milestones	592	46%
Inactive Tasks and Milestones	0	0%

Integrity Indicators (Note: These counts include summary and completed tasks)

Description	Count	% of Total
Tasks and Milestones Without Predecessors or Inactive Predecessors	13	1%
Tasks and Milestones Without Successors or Inactive Successors	24	2%
To-Do Tasks with To-Do Finish Date	1	0%
To-Do Tasks with No Start Date	1	0%
Summary tasks with No Start Date (see note below)	0	0%
Out of Sequence Predecessors	2	0%
Tasks and Milestones Inconsistent Updates	2	0%
Tasks with Invalid Dates	0	0%
Tasks entered as Milestones (note: invalid a duration of 1.0)	0	0%
Tasks with Invalid Duration	1	0%
Invalid Tasks (includes summary tasks - see note below)	0	0%

Constraints

Description	Count	% of Total
Total Constraints (those other than ASAP including health)	57	6%
Start No Earlier Than	42	8%
Start No Later Than	0	0%
Finish No Earlier Than	0	0%
Finish No Later Than	1	0%
Start Overlap	0	0%
Must Finish On	13	3%
Must Start On	0	0%
Deadlines	1	0%

Relationships

Description	Negative Lag	Positive Lag
Total Relationships	2	1363
Finish to Start (FS)	0	1368
Finish to Finish (FF)	2	2%
Start to Start (SS)	0	0%
Start to Finish (SF)	0	0%

Note: The constraint with the highest percentage of tasks is indicated as a percentage of tasks and milestones.

A consolidated list of metrics and benchmarks attempts to amend the disparities among current tools.



Easy Schedule Database Access Through TEAMS

Search

Teams (02) Schedule Management Posts Files Quality Metrics Program Status +

Activity Status: Select all, Completed, In Progress, Not Started

MISSION COUNT: 19 | FILE COUNT: 32 | ACTIVITY COUNT: 137814 | AVG TASK DURATION: 100 DAYS

QUALITY OF SCHEDULE

Filters: Mission Lead Center, Mission Directorate, Mission Category, Mission Name, Submission Period, Work Stage, Common WBS

Metrics: Detail Task Ratio, Critical Task Ratio, Avg Task Duration, Activities Missing Calendars, Manually Scheduled Activities, Estimated Duration Activities, Activities Missing Baseline Date, Activities With Deadlines, Activities With Leads, Non-FS Relationships, External Relationships, Activities Missing Logic (Open Ends), Non-ASAP Activities, Dangling Start Activities, Dangling Finish Activities

QUALITY OF SCHEDULE DATA

Mission Name	PWA Project Schedule Link	Mission Directorate	Status Date	Detail Task Ratio	Critical Task Ratio	Avg Task Duration [Days]	Activities Missing Calendar	Manually Scheduled Activities	Estimated Duration Activities	Activities Missing Baseline Date
LandSAT9		SMD	2/28/2020	0.6	0.0	92	0	0	0	0
LandSAT9_IMS_20200228_FY20Q2		SMD	2/28/2020	0.6	0.0	92	0	0	0	0
IXPE		SMD	3/28/2020	0.7	0.0	75	2029	0	0	1
IXPE_IMS_20200530_FY20Q3		SMD	5/30/2020	0.7	0.0	75	2029	0	0	0
IXPE_IMS_20200328_FY20Q2		SMD	3/28/2020	0.7	0.0	76	0	0	0	0
Lucy		SMD	3/29/2020	0.7	0.1	80	0	3	0	0
Lucy_IMS_20200329_FY20Q2		SMD	3/29/2020	0.7	0.1	80	0	1	0	0
Total		ARMD	12/31/2019	0.6	0.1	100	22466	30625	197	178

Activity Count by Criticality & Activity Type

Task Duration [Days]

ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity Name	Activity Type
OrionMPCV	3/31/2020		Detail
PACE	3/31/2020		Detail
WFIRST	3/31/2020		Detail
WFIRST	3/31/2020		Summary
WFIRST	3/31/2020		Summary
SWOT	3/31/2020	Re-Work ACME SMD-0.2 Package	Detail
SWOT	6/30/2020	Re-Work ACME SMD-0.2 Package	Detail

Quality of Schedule | Schedule Properties | Constraints | Calendars | Baselines



Full Access To All The Features of TEAMS

The screenshot displays the TEAMS application interface. On the left sidebar, there are icons for Activity, Chat, Teams, Calendars, Calls, and Files. The main content area is titled '(02) Schedule Management' and includes a search bar, navigation tabs (Posts, Files, Quality, Metrics, Program Status), and a 'Meet' button in the top right corner. The central dashboard features a 'QUALITY OF SCHEDULE' section with various filters and a row of 14 gauge charts. Below this is a 'QUALITY OF SCHEDULE DATA' table with columns for Mission Name, PWA Project Schedule Link, Mission Directorate, Status Date, and various performance metrics. At the bottom, there are two charts: 'Activity Count by Criticality & Activity Type' (a donut chart) and 'Task Duration [Days]' (a bar chart), along with an 'ACTIVITY DETAILS' table.

Mission Name	PWA Project Schedule Link	Mission Directorate	Status Date	Detail Task Ratio	Critical Task Ratio	Avg Task Duration [Days]	Activities Missing Calendar	Manually Scheduled Activities	Estimated Duration Activities	Activities Missing Baseline Date
LandSAT9	LandSAT9_IMS_20200228_FY20Q2	SMD	2/28/2020	0.6	0.0	92	0	0	0	0
IXPE	IXPE_IMS_20200530_FY20Q3	SMD	3/28/2020	0.7	0.0	75	2029	0	0	1
IXPE	IXPE_IMS_20200328_FY20Q2	SMD	3/28/2020	0.7	0.0	76	0	0	0	0
Lucy	Lucy_IMS_20200329_FY20Q2	SMD	3/29/2020	0.7	0.1	80	0	3	0	0
Total		ARMD	12/31/2019	0.6	0.1	100	22466	30625	197	178

Chat

Calendars

Apps

Meetings

Users can take advantage of all the benefits and features of TEAMS.



Full Access To All The Features of TEAMS

The image displays three overlapping Microsoft Teams windows. On the left is the 'Add a tab' panel, which lists various applications like Planner, Document Library, Excel, Forms, and OneNote. In the center is the 'Calendar' view, showing a weekly grid with a meeting scheduled for Wednesday, April 7th. On the right is a 'Chat' window for a channel named '2021 NASA Cost & Schedule Symposium Session #2', showing a list of messages from participants. Three text labels with arrows point to specific features: 'Meetings' (orange) points to the 'New meeting' button in the calendar window; 'Apps' (grey) points to the 'Add a tab' panel; 'Calendars' (blue) points to the calendar grid; and 'Chat' (green) points to the chat messages.

Users can take advantage of all the benefits and features of TEAMS.



Reports Can Be Accessed Through Power BI Online

The screenshot shows a Microsoft Teams interface with a Power BI report titled "Quality of Schedule" embedded in a channel named "(02) Schedule Management". A green arrow points to a globe icon in the top right corner of the report, indicating that the report is accessible via a web browser.

QUALITY OF SCHEDULE DATA

Mission Name	PWA Project Schedule Link	Mission Directorate	Status Date	Detail Task Ratio	Critical Task Ratio	Avg Task Duration [Days]	Activities Missing Calendar	Manually Scheduled Activities	Estimated Duration Activities	Activities Missing Baseline Date
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Total		ARMD	12/31/2019	0.6	0.1	100	22466	30625	197	178

Activity Status

- Select all
- Completed
- In Progress
- Not Started

Summary Metrics:

- MISSION COUNT: 19
- FILE COUNT: 32
- ACTIVITY COUNT: 137814
- AVG TASK DURATION: 100 DAYS

Activity Count by Criticality & Activity Type:

Task Duration [Days]:

ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity Name	Activity Type
OrionMPCV	3/31/2020		Detail
PACE	3/31/2020		Detail
WFIRST	3/31/2020		Detail
WFIRST	3/31/2020		Summary
WFIRST	3/31/2020		Summary
SWOT	3/31/2020	Re-Work ACME SMD-0.2 Package	Detail
SWOT	6/30/2020	Re-Work ACME SMD-0.2 Package	Detail

Any report can also be viewed from a web browser.



Reports Can Be Accessed Through Power BI Online



Mission Name	PWA Project Schedule Link	Mission Directorate	Status Date	Detail Task Ratio	Critical Task Ratio	Avg Task Duration [Days]	Activities Missing Calendar	Manually Scheduled Activities	Estimated Duration Activities	Activities Missing Baseline Date
Landsat9	Landsat9_IMS_20200228_FY20Q2	SMD	2/28/2020	0.6	0.0	92	0	0	0	0
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A new web browser window opens the report in Power BI Online.



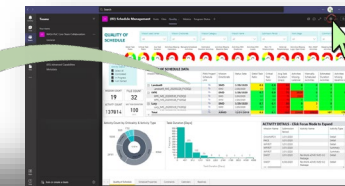
Reports Can Be Edited In Power BI Online



Reports can be edited in Power BI Online in *Edit* mode.



Reports Can Be Edited In Power BI Online



All features found in Desktop Power BI become available in *Edit* mode.



Reports Can Be Edited In Power BI Online





Edited Reports Can Be Saved From Power BI Online





Edited Reports Can Be Saved From Power BI Online



File View **Reading view** Mobile layout

QUALITY OF SCHEDULE

UNIQUE ACTUAL PROJECT START DATES: 17

Activity Status: Select all, Completed, In Progress, Not Started

MISSION COUNT: 19, FILE COUNT: 32, ACTIVITY COUNT: 137814, AVG TASK DURATION: 100 DAYS

QUALITY OF SCHEDULE DATA

Mission Name	PWA Project Schedule Link	Mission Directorate	Status Date	Detail Task Ratio	Critical Task Ratio	Avg Task Duration [Days]	Activities Missing Calendar	Manually Scheduled Activities	Estimated Duration Activities	Activities Missing Baseline Date
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Total		ARMED	12/31/2019	0.6	0.1	100	22466	30625	197	178

Activity Count by Criticality & Activity Type: Donut chart showing Summary (1752), Detail (80946), Not Critical (137814), and Not Detail (26181).

Task Duration [Days]: Bar chart showing frequency distribution of task durations.

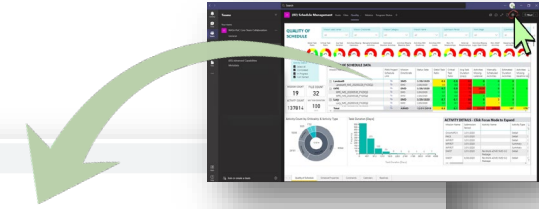
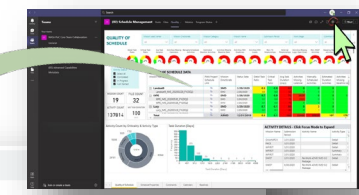
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Visualizations and Fields panels on the right side of the interface.



Edited Reports Can Be Saved From Power BI Online



Power BI BI Pack Development NASAPowerBIPack-Premium-Workspace - (0... | Data updated 1/21/21

File View **Reading view** Mobile layout

QUALITY OF SCHEDULE

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MISSION COUNT: 19 FILE COUNT: 32

ACTIVITY COUNT: 137814 AVG TASK DURATION: 100 DAYS

QUALITY OF SCHEDULE DATA

Mission Name	PWA Project Schedule	Mission Directorate	Status Date	Detail Task Ratio	Critical Task	Avg Task Duration	Activities Missing	Manually Scheduled	Estimated Duration	Activities Missing Baseline Date	
Landsat9											
IXPE											
Lucy											
Total			ARM	12/31/2019	0.6	0.1	100	22466	30625	197	178

Unsaved changes

Would you like to save changes to this report?

Save Don't save Cancel

ACTIVITY DETAILS - Click Focus Mode to Expand

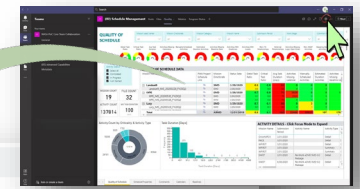
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Task Duration [Days] bar chart: Frequency vs Task Duration [Days]

Edits can also be discarded by not saving them.



Edited Reports Can Be Saved From Power BI Online



Power BI BI Pack Development NASAPowerBIPack-Premium-Workspace - (0... | Data updated 1/21/21

Search

Pages

Quality of Schedule

Schedule Properties

Constraints

Calendars

Baselines

UNIQUE ACTUAL PROJECT START DATES: 17

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Lucy_IMS_20200329_FY20Q2		SMD	3/29/2020	0.7	0.1	80	0	1	0	0
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Activity Count by Criticality & Activity Type

Task Duration [Days]

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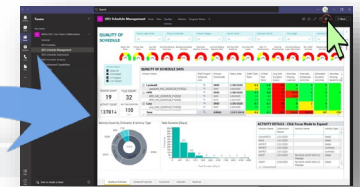
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Report saved
This report has been saved.

Saved edits are immediately seen in *Reading View*.



Power BI Online Edits Will Automatically Update in TEAMS



Power BI BI Pack Development | NASAPowerBIPack-Premium-Workspace - (0... | Data updated 1/21/21

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Power BI Online Edits Will Automatically Update in TEAMS

The screenshot shows a Microsoft Teams window with a Power BI report embedded. The report is titled "(02) Schedule Management" and displays various metrics and data tables. A red circle highlights the "UNIQUE ACTUAL PROJECT START DATES" metric, which shows a value of 17. Below this, there are several donut charts representing different task ratios. The main data table, "QUALITY OF SCHEDULE DATA", lists mission names and their associated metrics. At the bottom, there are two charts: "Activity Count by Criticality & Activity Type" (a donut chart) and "Task Duration [Days]" (a bar chart). A table titled "ACTIVITY DETAILS - Click Focus Mode to Expand" is also visible.

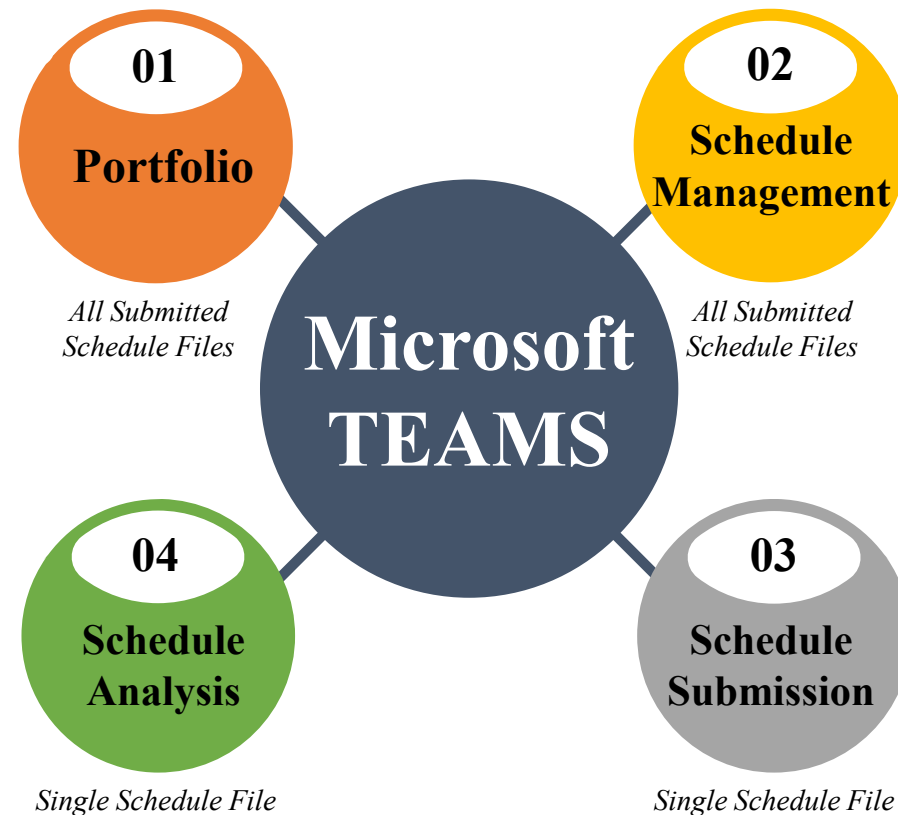
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Landsat9		SMD	2/28/2020	0.6	0.0	92	0	0	0	0
Landsat9_IMS_20200228_FY20Q2		SMD	2/28/2020	0.6	0.0	92	0	0	0	0
IXPE		SMD	3/28/2020	0.7	0.0	75	2029	0	0	1
IXPE_IMS_20200530_FY20Q3		SMD	5/30/2020	0.7	0.0	75	2029	0	0	0
IXPE_IMS_20200328_FY20Q2		SMD	3/28/2020	0.7	0.0	76	0	0	0	0
Lucy		SMD	3/29/2020	0.7	0.1	80	0	3	0	0
Lucy_IMS_20200329_FY20Q2		SMD	3/29/2020	0.7	0.1	80	0	3	0	0
Lucy_IMS_20200329_FY20Q2		SMD	3/29/2020	0.7	0.1	80	0	1	0	0
Total		ARMD	12/31/2019	0.6	0.1	100	22466	30625	197	178



✓ Saved edits are immediately propagated in the TEAMS report.



NASA Schedule Database Structured for Various Roles

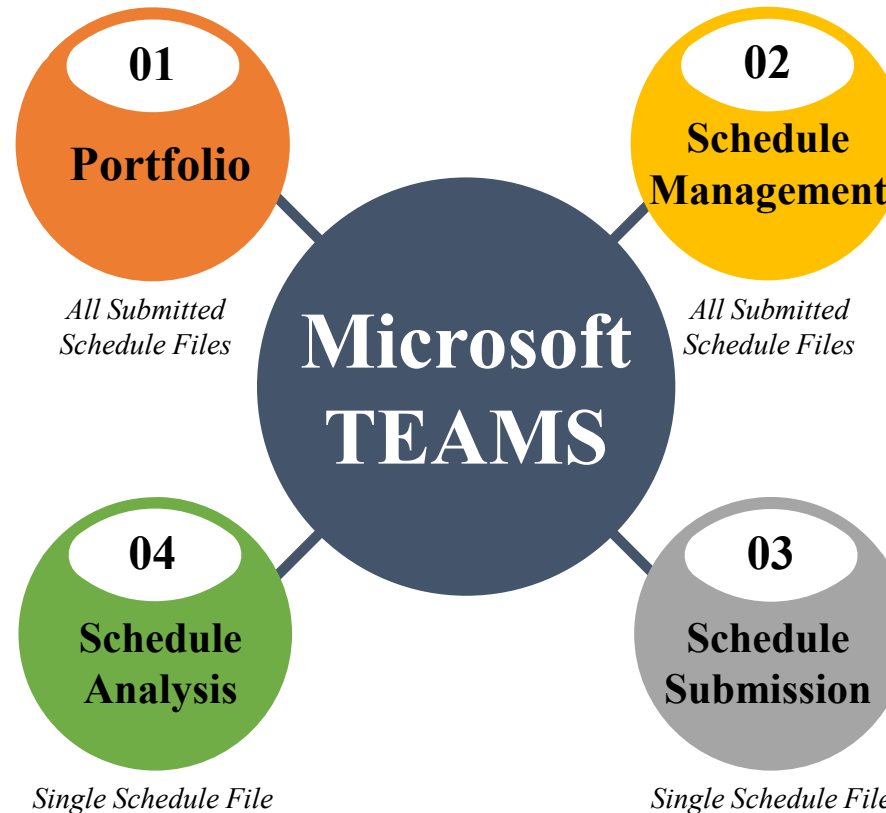


Four channels are available for different roles or security settings. Each channel has its own unique tabs and pages.



NASA Schedule Database Structured for Various Roles

Director has a high-level view of the entire portfolio of submitted files with sparse yet concise information.



Manager has a high-level view of all schedule files to assess general trends of schedule quality across the portfolio and to improve upon NASA best scheduling practices.

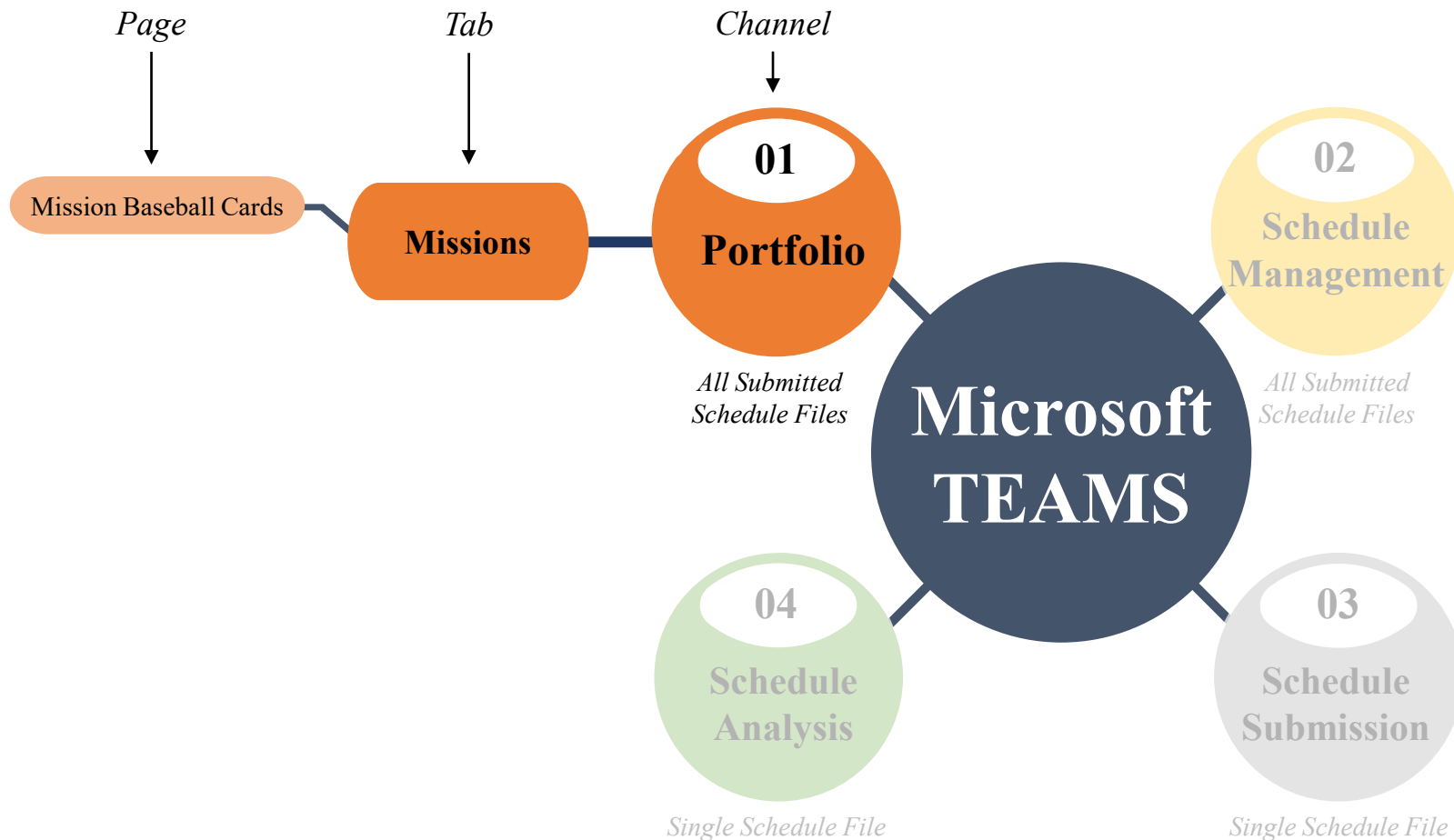
Schedule Analyst has the lowest level details that give insight into past performance and trends to help recognize future risk areas.

Schedule Submitter sees details that relay how fully the schedule is populated and informed.

Each Channel can have its own security settings to allow certain users access.



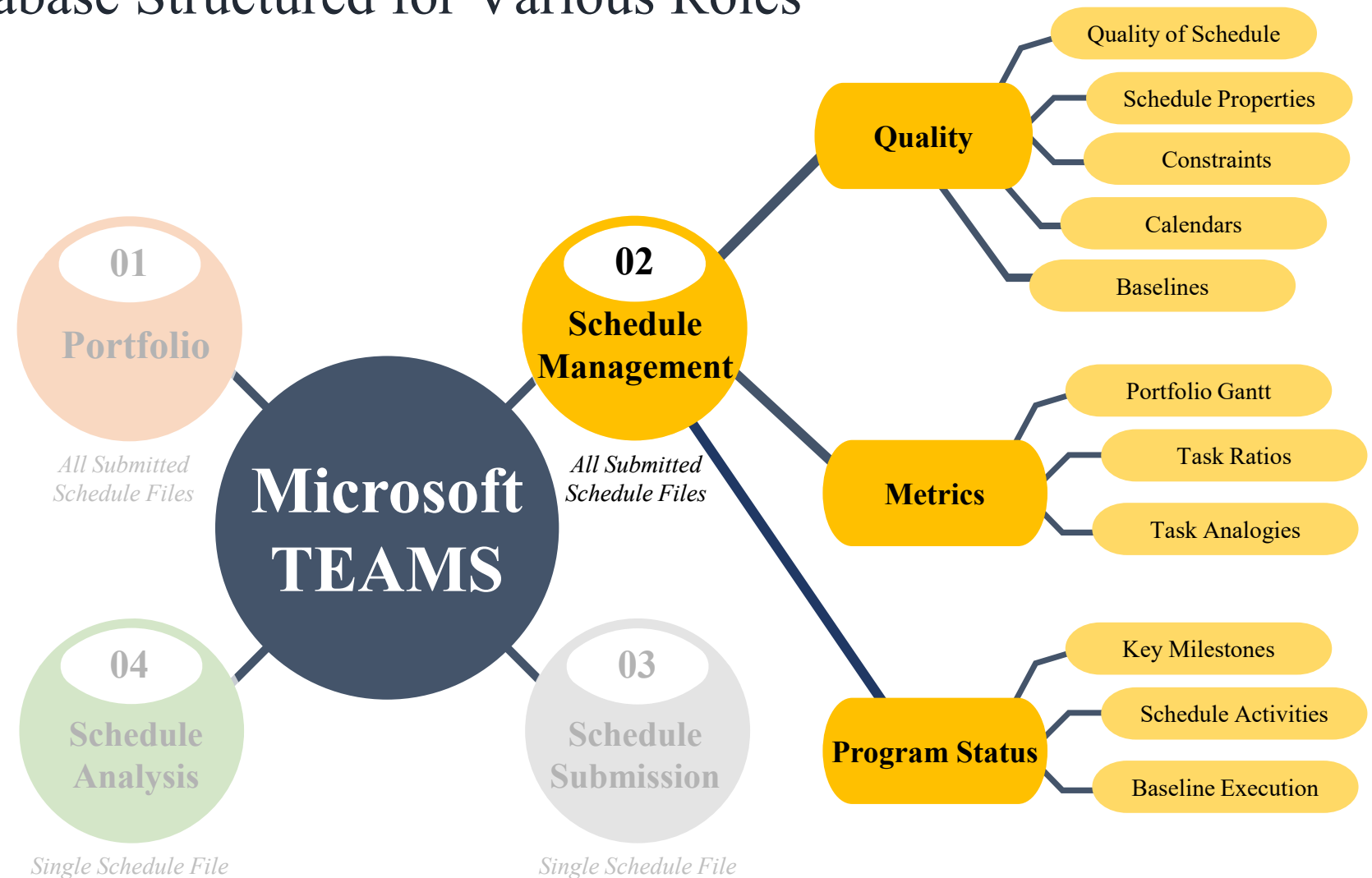
NASA Schedule Database Structured for Various Roles



Director has a high-level view of the entire portfolio of submitted files with sparse yet concise information.



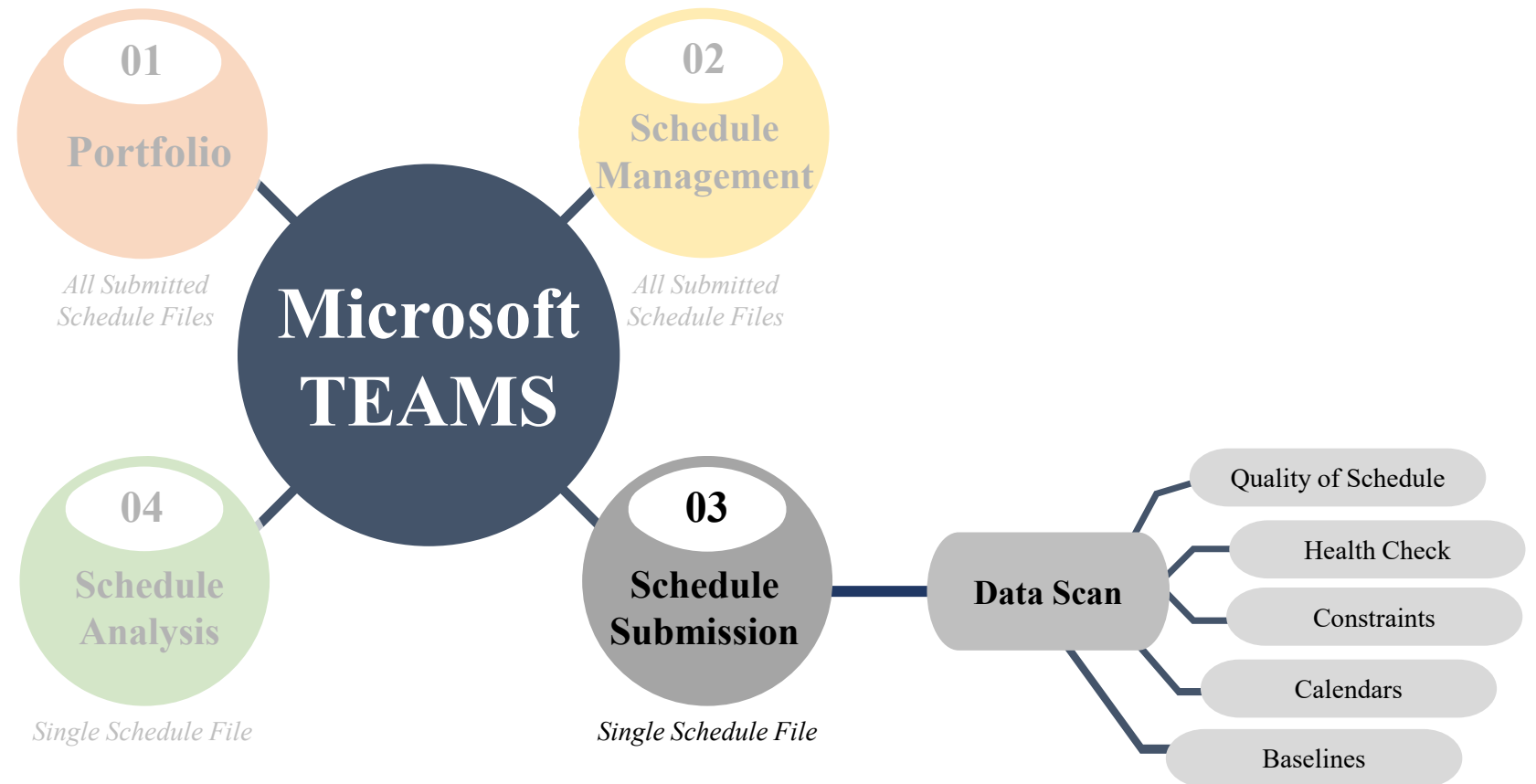
NASA Schedule Database Structured for Various Roles



Manager has a high-level view of all schedule files to assess general trends of schedule quality across the portfolio.



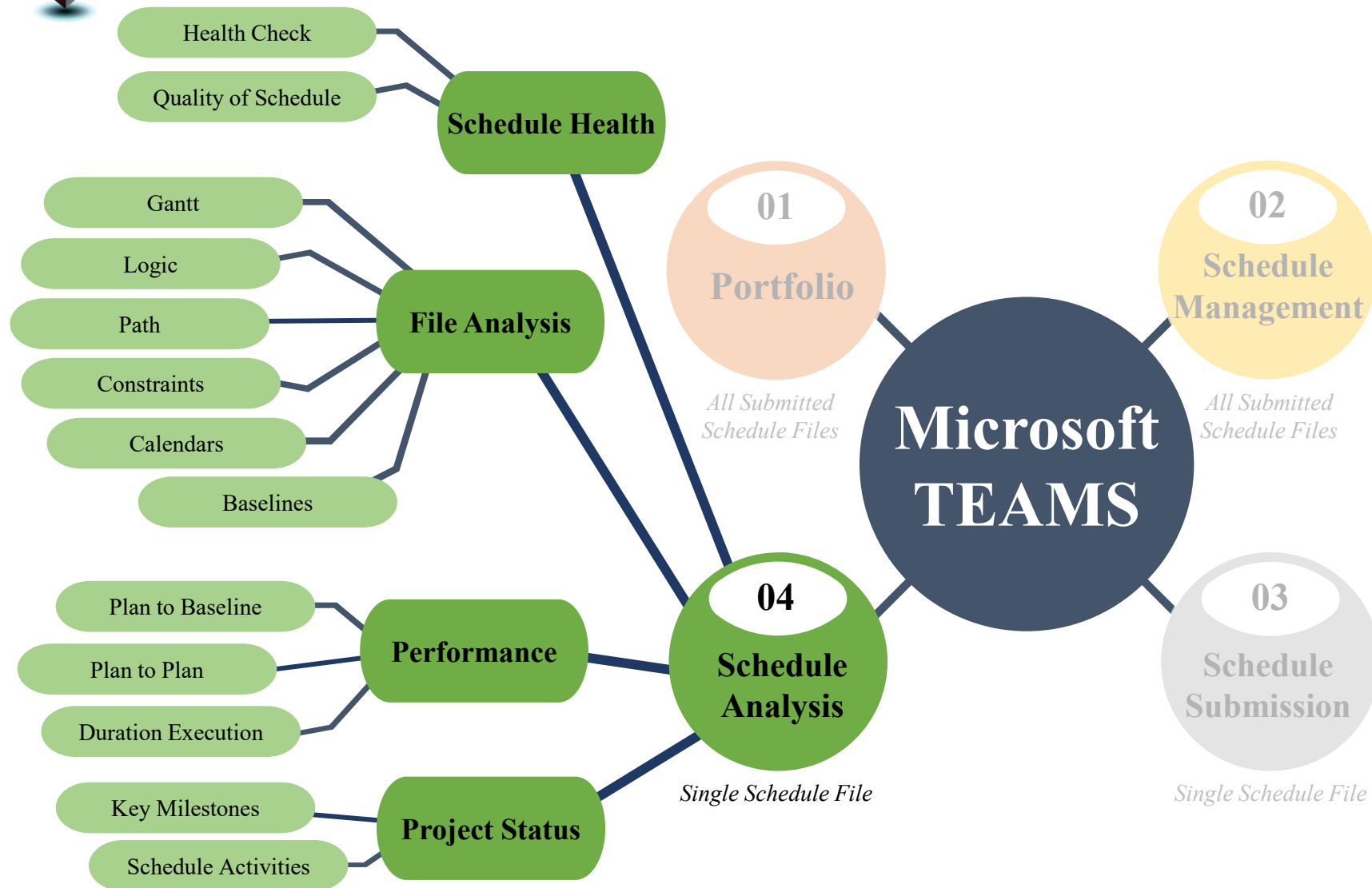
NASA Schedule Database Structured for Various Roles



Submitter sees details that relay how fully the schedule is populated and informed.



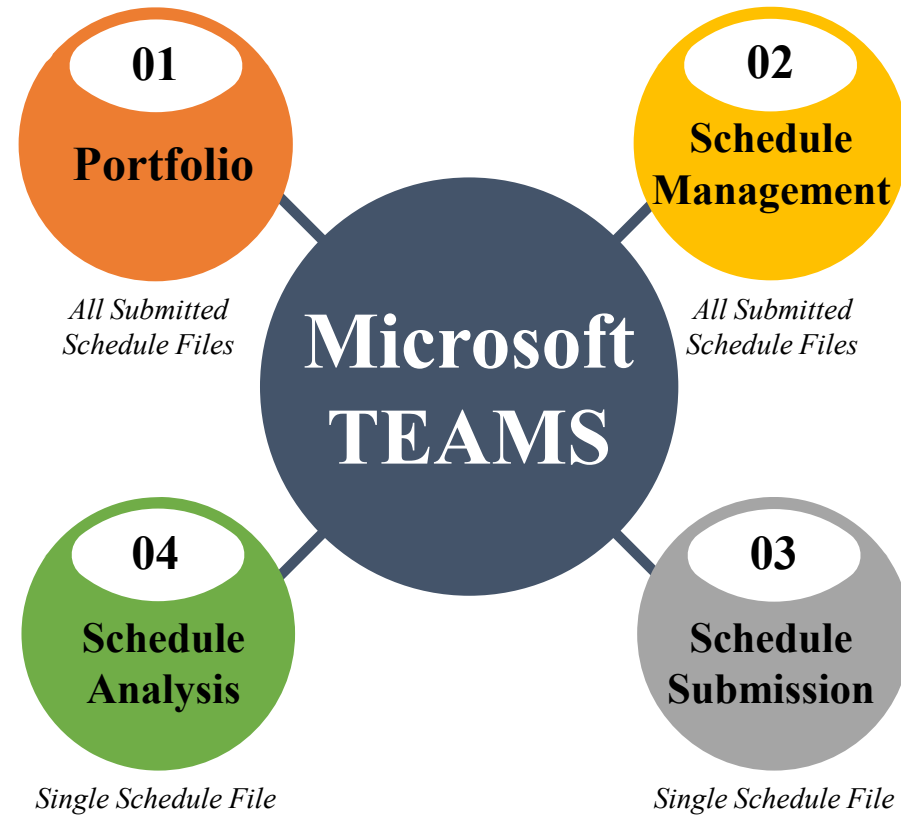
NASA Schedule Database Structured for Various Roles



Analyst has the lowest level details that give insight into past performance and trends to help recognize future risk areas.

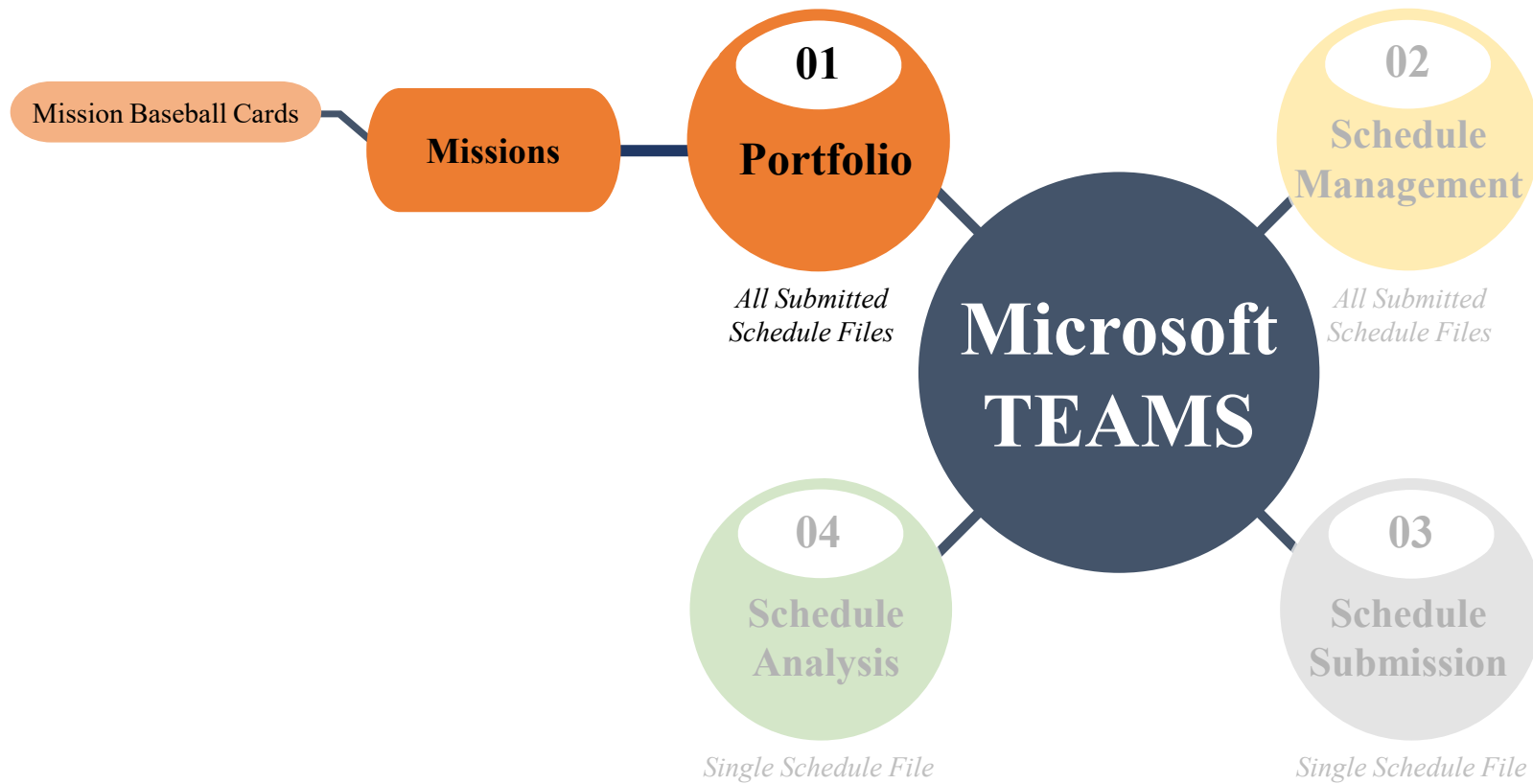


NASA Schedule Database Structured for Various Roles





Portfolio Channel





Portfolio || Missions || Mission Baseball Cards

MISSION BASEBALL CARDS

The left table shows Missions with Project files published to Project Server. Some Missions have multiple published files (i.e., multiple Submission Periods). Activity Count is across all files for a given Mission.

Mission Lead Center

All

Mission Directorate

All

Mission Category

All

19 Missions 32 Project Files

PUBLISHED PROJECT FILES BY MISSION

Mission Name	Mission Directorate	Mission Count	File Count	Activity Count
ArtemisArtemis1	HEOMD	1	1	513
EGSArtemis1	HEOMD	1	2	566
Euclid	SMD	1	1	683
Gateway	HEOMD	1	2	1830
IXPE	SMD	1	2	4023
JPSS2	SMD	1	2	1196
Landsat9	SMD	1	1	7323
LBFD	ARMD	1	2	7088
Lucy	SMD	1	3	8586
OrionArtemis1	HEOMD	1	1	2641
OrionMPCV	HEOMD	1	1	2391
PACE	SMD	1	1	7922
RestoreL	STMD	1	2	24484
SLSArtemis1	HEOMD	1	1	824
SLSArtemis2	HEOMD	1	1	551
SWOT	SMD	1	3	30155
TSIS2	SMD	1	3	4316
WFIRST	SMD	1	1	30573
X57	ARMD	1	2	2149
Total		19	32	137814

MISSION & THUMBNAILS

Mission Name	Project Thumbnail	Activity Count
Lucy		8586
RestoreL		24484
SLSArtemis2		551
LBFD		7088
ArtemisArtemis1		513
EGSArtemis1		566
X57		2149
Total		137814

MISSION & THUMBNAILS

Lucy

Restore-L In-space Robotic Servicing

SLS Artemis 2

Low-Boom Flight Demonstrator

Artemis Program Launch 1

EGS Artemis 1

Mission Baseball Cards provide a quick overview of all submitted project files.



Portfolio || Missions || Mission Baseball Cards

MISSION BASEBALL CARDS

The left table shows Missions with Project files published to Project Server. Some Missions have multiple published files (i.e., multiple Submission Periods). Activity Count is across all files for a given Mission.

Mission Lead Center

All

Mission Directorate

All

Mission Category

All

19

32

Missions Project Files

PUBLISHED PROJECT FILES BY MISSION

Mission Name	Mission Directorate	Mission Count	File Count	Activity Count
ArtemisArtemis1	HEOMD	1	1	513
EGSArtemis1	HEOMD	1	2	566
Euclid	SMD	1	1	683
Gateway	HEOMD	1	2	1830
IXPE	SMD	1	2	4023
JPSS2	SMD	1	2	1196
Landsat9	SMD	1	1	7323
LBFD	ARMD	1	2	7088
Lucy	SMD	1	3	8586
OrionArtemis1	HEOMD	1	1	2641
OrionMPCV	HEOMD	1	1	2391
PACE	SMD	1	1	7922
RestoreL	STMD	1	2	24484
SLSArtemis1	HEOMD	1	1	824
SLSArtemis2	HEOMD	1	1	551
SWOT	SMD	1	3	30155
TSIS2	SMD	1	3	4316
WFIRST	SMD	1	1	30573
X57	ARMD	1	2	2149
Total		19	32	137814

MISSION & THUMBNAILS

Mission Name	Project Thumbnail	Activity Count
Lucy		8586
RestoreL		24484
SLSArtemis2		551
LBFD		7088
ArtemisArtemis1		513
EGSArtemis1		566
X57		2149
Total		137814

MISSION & THUMBNAILS

Lucy
Lucy

Restore-L In-space Robotic Servicing
RestoreL

SLS Artemis 2
SLSArtemis2

Low-Boom Flight Demonstrator
ArtemisArtemis1 •

Artemis Program Launch 1
ArtemisArtemis1 •

EGS Artemis 1
EGSArtemis1

Additional information can be displayed in various ways, such as by flipping the mission baseball cards.



Portfolio || Missions || Mission Baseball Cards

MISSION BASEBALL CARDS

The left table shows Missions with Project files published to Project Server. Some Missions have multiple published files (i.e., multiple Submission Periods). Activity Count is across all files for a given Mission.

Mission Lead Center

All

Mission Directorate

All

Mission Category

All

19 32

Missions Project Files

PUBLISHED PROJECT FILES BY MISSION

Mission Name	Mission Directorate	Mission Count	File Count	Activity Count
ArtemisArtemis1	HEOMD	1	1	513
EGSArtemis1	HEOMD	1	2	566
Euclid	SMD	1	1	683
Gateway	HEOMD	1	2	1830
IXPE	SMD	1	2	4023
JPSS2	SMD	1	2	1196
Landsat9	SMD	1	1	7323
LBFD	ARMD	1	2	7088
Lucy	SMD	1	3	8586
OrionArtemis1	HEOMD	1	1	2641
OrionMPCV	HEOMD	1	1	2391
PACE	SMD	1	1	7922
RestoreL	STMD	1	2	24484
SLSArtemis1	HEOMD	1	1	824
SLSArtemis2	HEOMD	1	1	551
SWOT	SMD	1	3	30155
TSIS2	SMD	1	3	4316
WFIRST	SMD	1	1	30573
X57	ARMD	1	2	2149
Total		19	32	137814

MISSION & THUMBNAILS

Mission Name	Project Thumbnail	Activity Count
Lucy		8586
RestoreL		24484
SLSArtemis2		551
LBFD		7088
ArtemisArtemis1		513
EGSArtemis1		566
X57		2149
Total		137814

MISSION & THUMBNAILS

Lucy
Lucy

Comments
Theme Planetary Sci
Program Discovery
Category CAT 2
Scheduling S
Status Development
Lead Center GSFC
Task Count 8586
Directorate SMD
Focus Planetary

Restore-L In-space Robotic Servicing
RestoreL

Comments
Theme Exploration T
Program Technology I
Category CAT 2
Scheduling S
Status Development
Lead Center GSFC
Task Count 24484
Directorate STMD

SLS Artemis 2
SLSArtemis2

Comments
Theme Exploration S
Program Space Launch
Category CAT 1
Scheduling S
Status Development
Lead Center MSFC
Task Count 551
Directorate HEOMD
Focus Transport

Low-Boom Flight Demonstrator
LBFD • <https://www.nasa.gov/>

Comments
Theme Aeronautics
Program Integrated A
Category DNF
Scheduling S
Status Development
Lead Center LaRC
Task Count 7088
Directorate ARMD

Artemis Program Launch 1
ArtemisArtemis1 • <https://www.nasa.gov/>

Comments
Theme Exploration S
Program DNF
Category DNF
Scheduling S
Status DNF
Lead Center DNF
Task Count 513
Directorate HEOMD
Focus DNF

EGS Artemis 1
EGSArtemis1

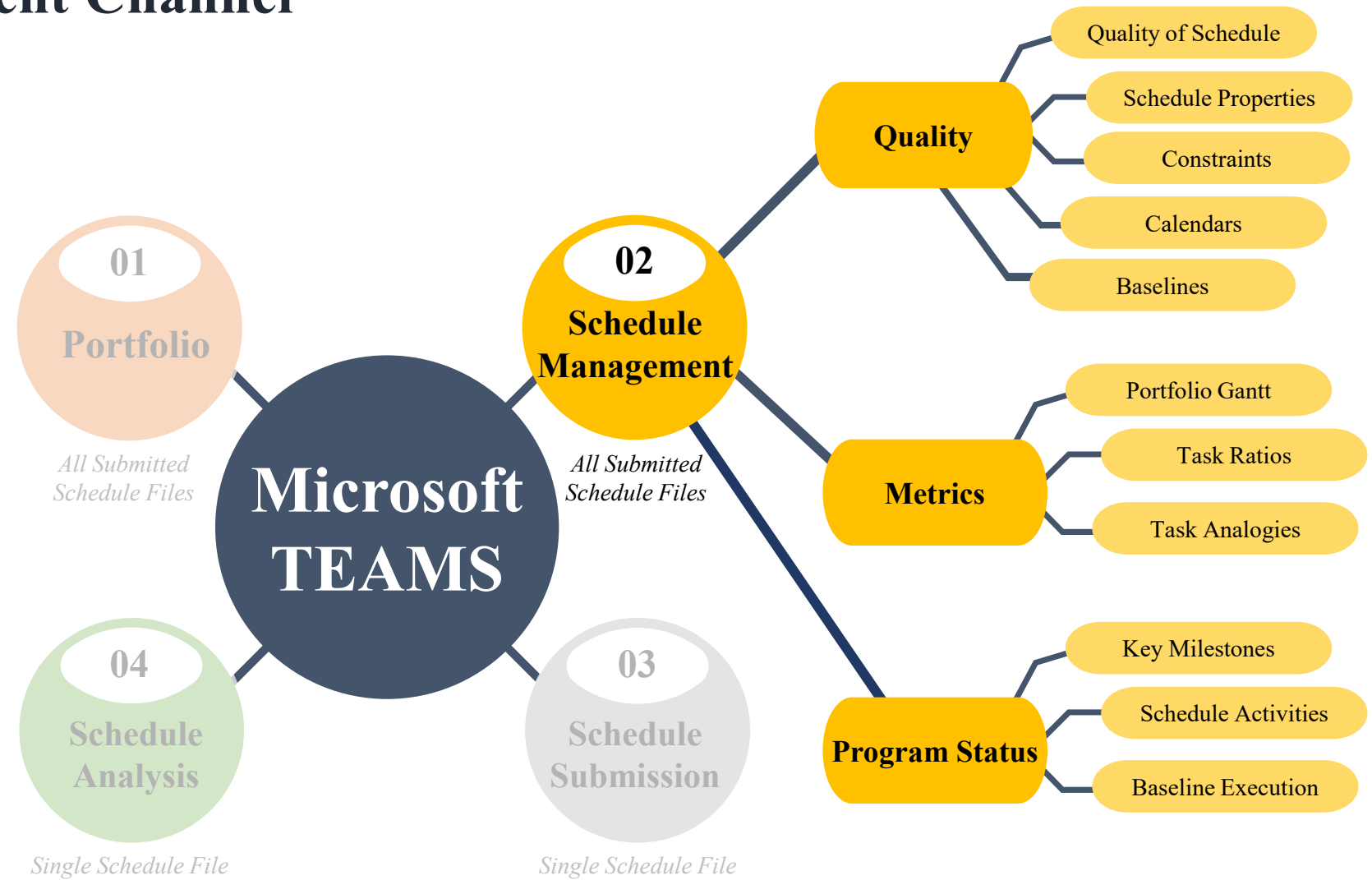
Comments
Theme Exploration S
Program Exploration C
Category CAT 1
Scheduling S
Status Development
Lead Center KSC
Task Count 566
Directorate HEOMD
Focus Ground Syst



Information from different sources can be effectively integrated.



Schedule Management Channel





Schedule Management || Quality || Quality of Schedule

QUALITY OF SCHEDULE

Mission Lead Center
All

Mission Directorate
All

Mission Category
All

Mission Name
All

Submission Period
All

Work Stage
All

Common WBS
All

Detail Task Ratio
Critical Task Ratio
Avg Task Duration
Activities Missing Calendars
Manually Scheduled Activities
Estimated Duration Activities
Activities Missing Baseline Date
Activities With Deadlines
Activities With Leads
Non-FS Relationships
External Relationships
Activities Missing Logic (Open Ends)
Non-ASAP Activities
Dangling Start Activities
Dangling Finish Activities

Activity Status

 Select all
 Completed
 In Progress
 Not Started

MISSION COUNT
19

FILE COUNT
32

ACTIVITY COUNT
137814

AVG TASK DURATION
100
DAYS

Mission Name	PWA Project Schedule Link	Mission Directorate	Status Date	Detail Task Ratio	Critical Task Ratio	Avg Task Duration [Days]	Activities Missing Calendar	Manually Scheduled Activities	Estimated Duration Activities	Activities Missing Baseline Date
LandSAT9		SMD	2/28/2020	0.6	0.0	92	0	0	0	0
LandSAT9_IMS_20200228_FY20Q2		SMD	2/28/2020	0.6	0.0	92	0	0	0	0
IXPE		SMD	3/28/2020	0.7	0.0	75	2029	0	0	1
IXPE_IMS_20200530_FY20Q3		SMD	5/30/2020	0.7	0.0	75	2029	0	0	0
IXPE_IMS_20200328_FY20Q2		SMD	3/28/2020	0.7	0.0	76	0	0	0	0
Lucy		SMD	3/29/2020	0.7	0.1	80	0	3	0	0
Lucy_IMS_20200329_FY20Q2		SMD	3/29/2020	0.7	0.1	80	0	1	0	0
Total		ARMED	12/31/2019	0.6	0.1	100	22466	30625	197	178

Activity Count by Criticality & Activity Type

Task Duration [Days]

ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity Name	Activity Type
OrionMPCV	3/31/2020		Detail
PACE	3/31/2020		Detail
WFIRST	3/31/2020		Detail
WFIRST	3/31/2020		Summary
WFIRST	3/31/2020		Summary
SWOT	3/31/2020	Re-Work ACME SMD-0.2 Package	Detail
SWOT	6/30/2020	Re-Work ACME SMD-0.2 Package	Detail

Quality of Schedule
Schedule Properties
Constraints
Calendars
Baselines

A Quality of Schedule report provides an easy way to gauge all submitted schedules.



Schedule Management || Quality || Quality of Schedule



QUALITY OF SCHEDULE

Mission Lead Center: All | Mission Directorate: All | Mission Category: All | Mission Name: All | Submission Period: All | Work Stage: All | Common WBS: All



- Activity Status
- Select all
 - Completed
 - In Progress
 - Not Started

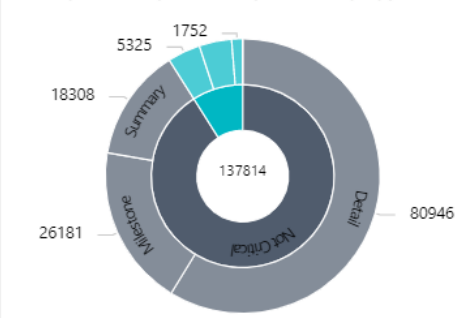
MISSION COUNT: 19 | FILE COUNT: 32

ACTIVITY COUNT: 137814 | AVG TASK DURATION: 100 DAYS

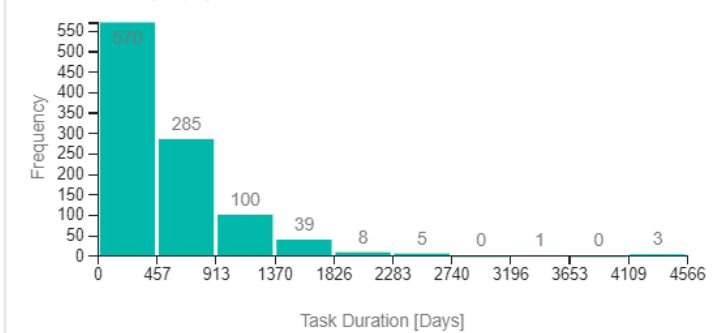
QUALITY OF SCHEDULE DATA

Mission Name	PWA Project Schedule Link	Mission Directorate	Status Date	Detail Task Ratio	Critical Task Ratio	Avg Task Duration [Days]	Activities Missing Calendar	Manually Scheduled Activities	Estimated Duration Activities	Activities Missing Baseline Date
LandSAT9		SMD	2/28/2020	0.6	0.0	92	0	0	0	0
LandSAT9_IMS_20200228_FY20Q2		SMD	2/28/2020	0.6	0.0	92	0	0	0	0
IXPE		SMD	3/28/2020	0.7	0.0	75	2029	0	0	1
IXPE_IMS_20200530_FY20Q3		SMD	5/30/2020	0.7	0.0	75	2029	0	0	0
IXPE_IMS_20200328_FY20Q2		SMD	3/28/2020	0.7	0.0	76	0	0	0	0
Lucy		SMD	3/29/2020	0.7	0.1	80	0	3	0	0
Lucy_IMS_20200329_FY20Q2		SMD	3/29/2020	0.7	0.1	80	0	1	0	0
Total		ARMED	12/31/2019	0.6	0.1	100	22466	30625	197	178

Activity Count by Criticality & Activity Type



Task Duration [Days]



ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity Name	Activity Type
OrionMPCV	3/31/2020		Detail
PACE	3/31/2020		Detail
WFIRST	3/31/2020		Detail
WFIRST	3/31/2020		Summary
WFIRST	3/31/2020		Summary
SWOT	3/31/2020	Re-Work ACME SMD-0.2 Package	Detail
SWOT	6/30/2020	Re-Work ACME SMD-0.2 Package	Detail

Quality of Schedule | Schedule Properties | Constraints | Calendars | Baselines



Metric and benchmark survey results are incorporated into fuel gauges and color formatting.



Schedule Management || Quality || Quality of Schedule

QUALITY OF SCHEDULE

Mission Lead Center: All | Mission Directorate: All | Mission Category: All | Mission Name: All | Submission Period: All | Work Stage: All | Common WBS: All



- Activity Status
- Select all
 - Completed
 - In Progress
 - Not Started

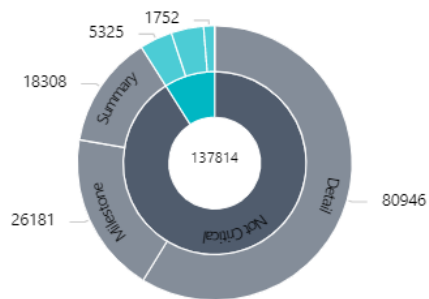
MISSION COUNT: 19 | FILE COUNT: 32

ACTIVITY COUNT: 137814 | AVG TASK DURATION: 100 DAYS

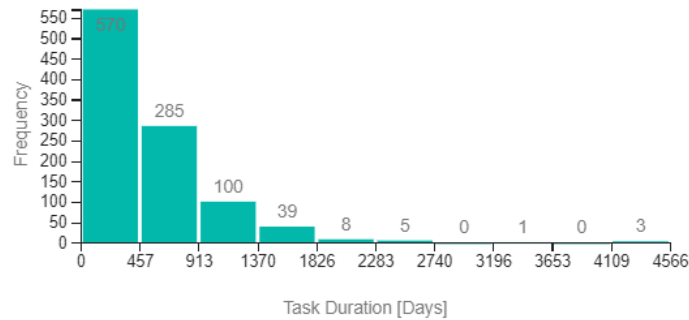
QUALITY OF SCHEDULE DATA

Mission Name	PWA Project Schedule Link	Mission Directorate	Status Date	Detail Task Ratio	Critical Task Ratio	Avg Task Duration [Days]	Activities Missing Calendar	Manually Scheduled Activities	Estimated Duration Activities	Activities Missing Baseline Date
LandSAT9	[Link]	SMD	2/28/2020	0.6	0.0	92	0	0	0	0
LandSAT9_IMS_20200228_FY20Q2	[Link]	SMD	2/28/2020	0.6	0.0	92	0	0	0	0
IXPE	[Link]	SMD	3/28/2020	0.7	0.0	75	2029	0	0	1
IXPE_IMS_20200530_FY20Q3	[Link]	SMD	5/30/2020	0.7	0.0	75	2029	0	0	0
IXPE_IMS_20200328_FY20Q2	[Link]	SMD	3/28/2020	0.7	0.0	76	0	0	0	0
Lucy	[Link]	SMD	3/29/2020	0.7	0.1	80	0	3	0	0
Lucy_IMS_20200329_FY20Q2	[Link]	SMD	3/29/2020	0.7	0.1	80	0	1	0	0
Total		SMD	12/31/2019	0.6	0.1	100	22466	30625	197	178

Activity Count by Criticality & Activity Type



Task Duration [Days]



ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity Name	Activity Type
OrionMPCV	3/31/2020		Detail
PACE	3/31/2020		Detail
WFIRST	3/31/2020		Detail
WFIRST	3/31/2020		Summary
WFIRST	3/31/2020		Summary
SWOT	3/31/2020	Re-Work ACME SMD-0.2 Package	Detail
SWOT	6/30/2020	Re-Work ACME SMD-0.2 Package	Detail

Embedded links allow for quick and easy access to Project Web Apps (PWA).



Direct Access to Project Web Apps (PWA) From TEAMS



Project

BROWSE PROJECT PAGE TASK OPTIONS

Project Site Build Team Documents Risks Issues Deliverables Previous Next

Landsat9_IMS_2020022_8_FY20Q2

Status: Checked-in Last Modified: 11/23/2020 1:07 PM Version: Published

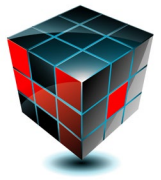
Schedule

Project Details April 2021 Today May 2021 June 2021

Project Site Add tasks with dates to the timeline

ID	Mode	Task Name	Duration	Start	Finish	% Complete	Work	Resource Name	Task Predecessors
1		L9 Schedule Control Section	1,653d	3/4/2015	9/30/2021	82%	0h		
2		Start of Project	0d	3/4/2015	3/4/2015	100%	0h		
3		End of Project	0d	9/30/2021	9/30/2021	0%	0h		98,4,5,6,7,8,9
4		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
5		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
6		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
7		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
8		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
9		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
10		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
11		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
12		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
13		(L-72) or Month 1 (LOE)	30d	3/4/2015	4/14/2015	100%	0h	2	
14		(L-71) or Month 2 (LOE)	21d	4/15/2015	5/13/2015	100%	0h	13	
15		(L-70) or Month 3 (LOE)	21d	5/14/2015	6/12/2015	100%	0h	14	
16		(L-69) or Month 4 (LOE)	21d	6/15/2015	7/14/2015	100%	0h	15	
17		(L-68) or Month 5 (LOE)	21d	7/15/2015	8/12/2015	100%	0h	16	
18		(L-67) or Month 6 (LOE)	21d	8/13/2015	9/11/2015	100%	0h	17	
19		(L-66) or Month 7 (LOE)	21d	9/14/2015	10/13/2015	100%	0h	18	
20		(L-65) or Month 8 (LOE)	21d	10/14/2015	11/12/2015	100%	0h	19	
21		(L-64) or Month 9 (LOE)	21d	11/13/2015	12/14/2015	100%	0h	20	
22		(L-63) or Month 10 (LOE)	21d	12/15/2015	1/14/2016	100%	0h	21	
23		(L-62) or Month 11 (LOE)	21d	1/15/2016	2/16/2016	100%	0h	22	
24		(L-61) or Month 12 (LOE)	21d	2/17/2016	3/16/2016	100%	0h	23	

Clicking on embedded links opens a selected project file in the web browser through PWA.



Check Out And Edit Projects Directly Within PWA





Check Out And Edit Projects Directly Within PWA

Project

BROWSE PROJECT PAGE **TASK** OPTIONS

Clipboard Project Editing Tasks Data Zoom

Status: Checked-in Last Modified: 11/23/2020 1:07 PM Version: Published

Schedule

Project Details April 2021 Today May 2021 June 2021

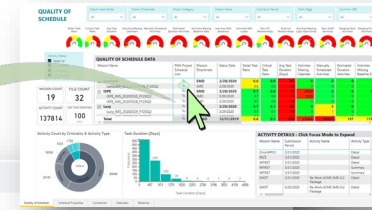
Project Site Add tasks with dates to the timeline

ID	Mode	Task Name	Duration	Start	Finish	% Complete	Work	Resource Name	Task Predecessors
1		L9 Schedule Control Section	1,653d	3/4/2015	9/30/2021	82%	0h		
2		Start of Project	0d	3/4/2015	3/4/2015	100%	0h		
3		End of Project	0d	9/30/2021	9/30/2021	0%	0h		98,4,5,6,7,8,9
4		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
5		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
6		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
7		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
8		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
9		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
10		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
11		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
12		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
13		(L-72) or Month 1 (LOE)	30d	3/4/2015	4/14/2015	100%	0h	2	
14		(L-71) or Month 2 (LOE)	21d	4/15/2015	5/13/2015	100%	0h	13	
15		(L-70) or Month 3 (LOE)	21d	5/14/2015	6/12/2015	100%	0h	14	
16		(L-69) or Month 4 (LOE)	21d	6/15/2015	7/14/2015	100%	0h	15	
17		(L-68) or Month 5 (LOE)	21d	7/15/2015	8/12/2015	100%	0h	16	
18		(L-67) or Month 6 (LOE)	21d	8/13/2015	9/11/2015	100%	0h	17	
19		(L-66) or Month 7 (LOE)	21d	9/14/2015	10/13/2015	100%	0h	18	
20		(L-65) or Month 8 (LOE)	21d	10/14/2015	11/12/2015	100%	0h	19	
21		(L-64) or Month 9 (LOE)	21d	11/13/2015	12/14/2015	100%	0h	20	
22		(L-63) or Month 10 (LOE)	21d	12/15/2015	1/14/2016	100%	0h	21	
23		(L-62) or Month 11 (LOE)	21d	1/15/2016	2/16/2016	100%	0h	22	
24		(L-61) or Month 12 (LOE)	21d	2/17/2016	3/16/2016	100%	0h	23	

Or from the *Task* tab.



Check Out And Edit Projects Directly Within PWA



Project

BROWSE PROJECT PAGE TASK OPTIONS

Clipboard Editing Tasks Data Zoom

LANDSAT9_IMS_2020022_8_FY20Q2

Status: Checked-in Last Modified: 11/23/2020 1:07 PM Version: Published

Schedule

Project Details

Project Site

Projects

Approvals

Tasks

Resources

Reports

EDIT LINKS

ID	Mode	Task Name	Duration	Start	Finish	% Complete	Work	Resource Name	Task Predecessors
1		L9 Schedule Control Section	1,653d	3/4/2015	9/30/2021	82%	0h		
2		Start of Project	0d	3/4/2015	3/4/2015	100%	0h		
3		End of Project	0d	9/30/2021	9/30/2021	0%	0h		98,4,5,6,7,8,9
4		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
5		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
6		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
7		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
8		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
9		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
10		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
11		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
12		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
13		(L-72) or Month 1 (LOE)	30d	3/4/2015	4/14/2015	100%	0h	2	
14		(L-71) or Month 2 (LOE)	21d	4/15/2015	5/13/2015	100%	0h	13	
15		(L-70) or Month 3 (LOE)	21d	5/14/2015	6/12/2015	100%	0h	14	
16		(L-69) or Month 4 (LOE)	21d	6/15/2015	7/14/2015	100%	0h	15	
17		(L-68) or Month 5 (LOE)	21d	7/15/2015	8/12/2015	100%	0h	16	
18		(L-67) or Month 6 (LOE)	21d	8/13/2015	9/11/2015	100%	0h	17	
19		(L-66) or Month 7 (LOE)	21d	9/14/2015	10/13/2015	100%	0h	18	
20		(L-65) or Month 8 (LOE)	21d	10/14/2015	11/12/2015	100%	0h	19	
21		(L-64) or Month 9 (LOE)	21d	11/13/2015	12/14/2015	100%	0h	20	
22		(L-63) or Month 10 (LOE)	21d	12/15/2015	1/14/2016	100%	0h	21	
23		(L-62) or Month 11 (LOE)	21d	1/15/2016	2/16/2016	100%	0h	22	
24		(L-61) or Month 12 (LOE)	21d	2/17/2016	3/16/2016	100%	0h	23	



Check In Projects Directly Within PWA

The screenshot shows the Project Workbench (PWA) interface. At the top, there's a navigation bar with 'Project' and 'Options' tabs. Below that is a toolbar with various icons, including 'Close' (highlighted with a red circle and a green arrow). The main area displays a task list for 'Landsat9_IMS_2020022_8_FY20Q2'. The task list includes columns for ID, Mode, Task Name, Duration, Start, Finish, % Complete, Work, and Resource Name. A Gantt chart is visible on the right side of the task list, showing task dependencies and progress. A green arrow points from the 'Close' button in the toolbar to the 'Check In' button in the task list. Another green arrow points from the main interface to a 'Quality of Schedule Data' dashboard in the top right corner.

ID	Mode	Task Name	Duration	Start	Finish	% Complete	Work	Resource Name	Task Predecessors
1		L9 Schedule Control Section	1,653d	3/4/2015	9/30/2021	82%	0h		
2		Start of Project	0d	3/4/2015	3/4/2015	100%	0h		
3		End of Project	0d	9/30/2021	9/30/2021	0%	0h		98,4,5,6,7,8,9
4		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
5		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
6		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
7		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
8		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
9		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
10		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
11		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
12		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
13		(L-72) or Month 1 (LOE)	30d	3/4/2015	4/14/2015	100%	0h	2	
14		(L-71) or Month 2 (LOE)	21d	4/15/2015	5/13/2015	100%	0h	13	
15		(L-70) or Month 3 (LOE)	21d	5/14/2015	6/12/2015	100%	0h	14	
16		(L-69) or Month 4 (LOE)	21d	6/15/2015	7/14/2015	100%	0h	15	
17		(L-68) or Month 5 (LOE)	21d	7/15/2015	8/12/2015	100%	0h	16	
18		(L-67) or Month 6 (LOE)	21d	8/13/2015	9/11/2015	100%	0h	17	
19		(L-66) or Month 7 (LOE)	21d	9/14/2015	10/13/2015	100%	0h	18	
20		(L-65) or Month 8 (LOE)	21d	10/14/2015	11/12/2015	100%	0h	19	
21		(L-64) or Month 9 (LOE)	21d	11/13/2015	12/14/2015	100%	0h	20	
22		(L-63) or Month 10 (LOE)	21d	12/15/2015	1/14/2016	100%	0h	21	
23		(L-62) or Month 11 (LOE)	21d	1/15/2016	2/16/2016	100%	0h	22	
24		(L-61) or Month 12 (LOE)	21d	2/17/2016	3/16/2016	100%	0h	23	

Easily save edits and check a project file back in.



Check In Projects Directly Within PWA

The screenshot shows a PWA interface for project management. The main area displays a table of tasks for the project 'Landsat9_IMS_2020022_8_FY20Q2'. A dialog box titled 'Close - Landsat9_IMS_2020022...' is overlaid on the table, asking 'Check in Do you want to check your project in?' with radio buttons for 'Check it in' (selected) and 'Keep it checked out'. The background table lists tasks with columns for ID, Mode, Task Name, Duration, and dates.

ID	Mode	Task Name	Duration	Start Date	End Date	Progress	Other
1		L9 Schedule Control Section	1,653d				
2		Start of Project	0d				
3		End of Project	0d				
4		Current Milestones Label	0d				
5		Current Milestones Label	0d				
6		Current Milestones Label	0d				
7		Current Milestones Label	0d				
8		Current Milestones Label	0d				
9		Current Milestones Label	0d				
10		Current Milestones Label	0d				
11		Current Milestones Label	0d	3/4/2015	3/4/2015	100%	0h
12		Current Milestones Label	0d	3/4/2015	3/4/2015	100%	0h
13		(L-72) or Month 1 (LOE)	30d	3/4/2015	4/14/2015	100%	0h
14		(L-71) or Month 2 (LOE)	21d	4/15/2015	5/13/2015	100%	0h
15		(L-70) or Month 3 (LOE)	21d	5/14/2015	6/12/2015	100%	0h
16		(L-69) or Month 4 (LOE)	21d	6/15/2015	7/14/2015	100%	0h
17		(L-68) or Month 5 (LOE)	21d	7/15/2015	8/12/2015	100%	0h
18		(L-67) or Month 6 (LOE)	21d	8/13/2015	9/11/2015	100%	0h
19		(L-66) or Month 7 (LOE)	21d	9/14/2015	10/13/2015	100%	0h
20		(L-65) or Month 8 (LOE)	21d	10/14/2015	11/12/2015	100%	0h
21		(L-64) or Month 9 (LOE)	21d	11/13/2015	12/14/2015	100%	0h
22		(L-63) or Month 10 (LOE)	21d	12/15/2015	1/14/2016	100%	0h
23		(L-62) or Month 11 (LOE)	21d	1/15/2016	2/16/2016	100%	0h
24		(L-61) or Month 12 (LOE)	21d	2/17/2016	3/16/2016	100%	0h

✓ The PWA check-in prompt can help build good habits.





Easily View Other Submitted Projects

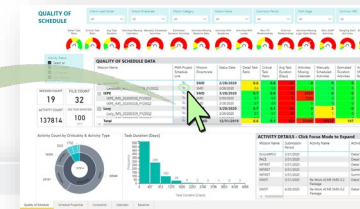
The screenshot shows a project management application interface. At the top, there's a navigation bar with 'Project' and various icons. Below that, a toolbar contains 'Edit', 'Save', 'Close', 'Project Site', 'Build Team', 'Documents', 'Risks', 'Issues', 'Deliverables', 'Previous', and 'Next'. The main content area displays project details for 'Landsat9_IMS_2020022_8_FY20Q2', including a status bar and a 'Schedule' section. A table lists tasks with columns for ID, Mode, Task Name, Duration, Start, Finish, % Complete, Work, and Resource Name. To the right, a Gantt chart shows task timelines from April 2021 to June 2021. A left sidebar contains navigation links: 'Project Details', 'Project Site', 'Projects' (circled in red), 'Approvals', 'Tasks', 'Resources', 'Reports', and 'EDIT L'. A green arrow points from a dashboard overview in the top right to the main interface. A green mouse cursor points to the 'Projects' link in the sidebar.

ID	Mode	Task Name	Duration	Start	Finish	% Complete	Work	Resource Name	Task Preced
1		L9 Schedule Control Section	1,653d	3/4/2015	9/30/2021	82%	0h		
2		Start of Project	0d	3/4/2015	3/4/2015	100%	0h		
3		End of Project	0d	9/30/2021	9/30/2021	0%	0h		98,4,5,6,7,8,9
4		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
5		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
6		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
7		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
8		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
9		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
10		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
11		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
12		Current Milestones Label (	0d	3/4/2015	3/4/2015	100%	0h	2	
13		(L-72) or Month 1 (LOE)	30d	3/4/2015	4/14/2015	100%	0h	2	
14		(L-71) or Month 2 (LOE)	21d	4/15/2015	5/13/2015	100%	0h	13	
15		(L-70) or Month 3 (LOE)	21d	5/14/2015	6/12/2015	100%	0h	14	
16		(L-69) or Month 4 (LOE)	21d	6/15/2015	7/14/2015	100%	0h	15	
17		(L-68) or Month 5 (LOE)	21d	7/15/2015	8/12/2015	100%	0h	16	
18		(L-67) or Month 6 (LOE)	21d	8/13/2015	9/11/2015	100%	0h	17	
19		(L-66) or Month 7 (LOE)	21d	9/14/2015	10/13/2015	100%	0h	18	
20		(L-65) or Month 8 (LOE)	21d	10/14/2015	11/12/2015	100%	0h	19	
21		(L-64) or Month 9 (LOE)	21d	11/13/2015	12/14/2015	100%	0h	20	
22		(L-63) or Month 10 (LOE)	21d	12/15/2015	1/14/2016	100%	0h	21	
23		(L-62) or Month 11 (LOE)	21d	1/15/2016	2/16/2016	100%	0h	22	
24		(L-61) or Month 12 (LOE)	21d	2/17/2016	3/16/2016	100%	0h	23	

A list of all (or a subset of) submitted projects can be accessed.



Easily View Other Submitted Projects



Project

BROWSE PROJECTS

Project: New, Open, Add SharePoint Sites, Build Team, Project Permissions, Check in My Projects, Zoom In, Zoom Out, Scroll to Project, Outline, View: Summary Plus, Rollups, Filter: No Filter, Add Project, Add Task, Export to Excel, Print, Subprojects, Time with Date, Change

Projects

Approvals

Tasks

Resources

Reports

EDIT LINKS

Create a big picture view of your projects with Roadmap. Visit [Project Home](#) to get started on a new roadmap.

Today

March 27 April 6 April 16 April 26 May 6 May 16 May 26 June 5

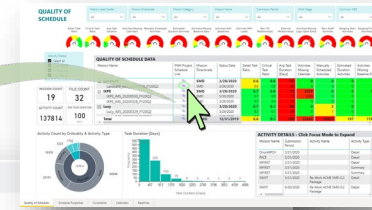
Add tasks with dates to the timeline

Project ID	Project Name ↑	Start	Finish	% Complete	Work	Duration	Owner	Last Published	Enterprise Proj	Project Departn	Project
IMSConsoL_0003	JPSS2_IMS_20200525_FY20Q3	1/7/2013	6/29/2022	98%	0h	2,380d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	JPSS2_IM
IMSConsoL_0005	JPSS2_IMS_20200531_FY20Q3	11/13/2015	4/5/2028	88%	0h	3,110d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	JPSS2_IM
100043	Landsat9_IMS_20200228_FY20Q2	3/4/2015	9/30/2021	94%	0h	1,653d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	Landsat
100044	LBFD_IMS_20200430_FY20Q2	3/17/2016	2/23/2024	69%	32,728h	1,910d	Shanling Yang	10/25/2020	IMS Consolidate	IMS	LBFD_ILV
IMSConsoL_0010	LBFD_IMS_20200630_FY20Q3	3/17/2016	2/23/2024	72%	32,744h	1,910d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	LBFD_ILV
100045	Lucy_IMS_20200329_FY20Q2	1/2/2019	11/5/2021	78%	574,086.38h	716d	Shanling Yang	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0011	Lucy_IMS_20200628_FY20Q3	1/2/2019	11/5/2021	78%	574,086.38h	716d	Shanling Yang @NASAPoC	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0014	Lucy_IMS_20200927_FY20Q4	1/2/2019	11/5/2021	89%	626,102.86h	716d	Shanling Yang @NASAPoC	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0008	OrionArtemis1_IMS_20200531_FY20Q3	9/28/2012	12/2/2025	60%	0h	3,438d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	OrionAr
100046	OrionMPCV_IMS_20200223_FY20Q2	9/28/2012	8/13/2026	61%	0h	3,620d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	OrionM
100047	PACE_IMS_20200415_FY20Q2	1/13/2015	7/29/2026	73%	7,622.5h	2,910d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	PACE_ILV
100049	RestoreL_IMS_20200331_FY20Q2	5/26/2015	10/2/2025	81%	276,160.8h	2,596d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	RestoreL
IMSConsoL_0006	RestoreL_IMS_20200630_FY20Q3	5/26/2015	12/12/2025	80%	294,728.8h	2,644d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	RestoreL
100048	SLSArtemis1_IMS_20200331_FY20Q2	3/6/2014	7/11/2021	92%	0h	2,684.5d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SLSArte
100050	SLSArtemis2_IMS_20200331_FY20Q2	9/1/2015	8/14/2023	38%	0h	2,048d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SLSArte
100052	SWOT_IMS_20200329_FY20Q2	10/1/2008	10/28/2025	93%	0h	4,271d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SWOT_IL
IMSConsoL_0012	SWOT_IMS_20200624_FY20Q3	10/1/2008	10/28/2025	94%	0h	4,271d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	SWOT_IL
IMSConsoL_0013	SWOT_IMS_20200927_FY20Q4	10/1/2008	10/28/2025	94%	0h	4,271d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	SWOT_IL
IMSConsoL_0015	TSIS2_IMS_20200401_FY20Q2	10/1/2018	5/8/2026	28%	0h	1,985d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IL
IMSConsoL_0016	TSIS2_IMS_20200630_FY20Q3	10/1/2018	5/8/2026	40%	0h	1,985d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IL
IMSConsoL_0017	TSIS2_IMS_20200930_FY20Q4	10/1/2018	4/6/2027	38%	0h	2,222d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IL

Data fields can be easily customized depending on what information is desired to be shown.



Easily Select Individual Projects to Open



Project

BROWSE PROJECTS

Project | Navigate | Zoom | Data | Timeline | Share | Show/Hide | Project Type

Projects

Approvals

Tasks

Resources

Reports

EDIT LINKS

Create a big picture view of your projects with Roadmap. Visit [Project Home](#) to get started on a new roadmap.

Today

March 27 | April 6 | April 16 | April 26 | May 6 | May 16 | May 26 | June 5

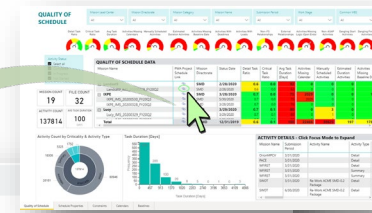
Add tasks with dates to the timeline

Project ID	Project Name	Start	Finish	% Complete	Work	Duration	Owner	Last Published	Enterprise Proj	Project Departn	Project
IMSConsoL_0003	JPSS2_IMS_20200525_FY20Q3	1/7/2013	6/29/2022	98%	0h	2,380d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	JPSS2_IM
IMSConsoL_0005	JPSS2_IMS_20200531_FY20Q3	11/13/2015	4/5/2028	88%	0h	3,110d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	JPSS2_IM
100043	Landsat9_IMS_20200228_FY20Q2	3/4/2015	9/30/2021	94%	0h	1,653d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	Landsat
100044	LBFD_IMS_20200430_FY20Q2	3/17/2016	2/23/2024	69%	32,728h	1,910d	Shanling Yang	10/25/2020	IMS Consolidate	IMS	LBFD_ILV
IMSConsoL_0004	LBFD_IMS_20200630_FY20Q3	3/17/2016	2/23/2024	72%	32,744h	1,910d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	LBFD_ILV
100045	Lucy_IMS_20200329_FY20Q2	1/2/2019	11/5/2021	78%	574,086.38h	716d	Shanling Yang	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0005	Lucy_IMS_20200628_FY20Q3	1/2/2019	11/5/2021	78%	574,086.38h	716d	Shanling Yang @NASAPoC	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0006	Lucy_IMS_20200927_FY20Q4	1/2/2019	11/5/2021	89%	626,102.86h	716d	Shanling Yang @NASAPoC	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0007	OrionArtemis1_IMS_20200531_FY20Q3	9/28/2012	12/2/2025	60%	0h	3,438d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	OrionAr
100046	OrionMPCV_IMS_20200223_FY20Q2	9/28/2012	8/13/2026	61%	0h	3,620d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	OrionMIV
100047	OrionMPCV_IMS_20200415_FY20Q2	1/13/2015	7/29/2026	73%	7,622.5h	2,910d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	PACE_ILV
100049	RestoreIL_ILS_20200331_FY20Q2	5/26/2015	10/2/2025	81%	276,160.8h	2,596d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	RestoreIL
IMSConsoL_0006	RestoreIL_ILS_20200630_FY20Q3	5/26/2015	12/12/2025	80%	294,728.8h	2,644d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	RestoreIL
100048	SLSArtemis1_IMS_20200331_FY20Q2	3/6/2014	7/11/2021	92%	0h	2,684.5d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SLSArtem
100050	SLSArtemis2_IMS_20200331_FY20Q2	9/1/2015	8/14/2023	38%	0h	2,048d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SLSArtem
100052	SWOT_IMS_20200329_FY20Q2	10/1/2008	10/28/2025	93%	0h	4,271d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SWOT_IL
IMSConsoL_0012	SWOT_IMS_20200624_FY20Q3	10/1/2008	10/28/2025	94%	0h	4,271d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	SWOT_IL
IMSConsoL_0013	SWOT_IMS_20200927_FY20Q4	10/1/2008	10/28/2025	94%	0h	4,271d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	SWOT_IL
IMSConsoL_0015	TSIS2_IMS_20200401_FY20Q2	10/1/2018	5/8/2026	28%	0h	1,985d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IL
IMSConsoL_0016	TSIS2_IMS_20200630_FY20Q3	10/1/2018	5/8/2026	40%	0h	1,985d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IL
IMSConsoL_0017	TSIS2_IMS_20200930_FY20Q4	10/1/2018	4/6/2027	38%	0h	2,222d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IL

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Today

March 27 April 6 April 16 April 26 May 6 May 16 May 26 June 5

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Project ID	Project Name ↑	Start	Finish	% Complete	Work	Duration	Owner	Last Published	Enterprise Proj	Project Departn	Project
IMSConsoL_0003	JPSS2_IMS_20200525_FY20Q3	1/7/2013	6/29/2022	98%	0h	2,380d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	JPSS2_IM
IMSConsoL_0005	JPSS2_IMS_20200531_FY20Q3	11/13/2015	4/5/2028	88%	0h	3,110d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	JPSS2_IM
100043	Landsat9_IMS_20200228_FY20Q2	3/4/2015	9/30/2021	94%	0h	1,653d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	Landsat
100044	LBFD_IMS_20200430_FY20Q2	3/17/2016	2/23/2024	69%	32,728h	1,910d	Shanling Yang	10/25/2020	IMS Consolidate	IMS	LBFD_ILV
IMSConsoL_0010	LBFD_IMS_20200630_FY20Q3	3/17/2016	2/23/2024	72%	32,744h	1,910d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	LBFD_ILV
100045	Lucy_IMS_20200329_FY20Q2	1/2/2019	11/5/2021	78%	574,086.38h	716d	Shanling Yang	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0011	Lucy_IMS_20200628_FY20Q3	1/2/2019	11/5/2021	78%	574,086.38h	716d	Shanling Yang @NASAPoC	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0014	Lucy_IMS_20200927_FY20Q4	1/2/2019	11/5/2021	89%	626,102.86h	716d	Shanling Yang @NASAPoC	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0008	OrionArtemis1_IMS_20200531_FY20Q3	9/28/2012	12/2/2025	60%	0h	3,438d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	OrionAr
100046	OrionMPCV_IMS_20200223_FY20Q2	9/28/2012	8/13/2026	61%	0h	3,620d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	OrionM
100047	PACE_IMS_20200415_FY20Q2	1/13/2015	7/29/2026	73%	7,622.5h	2,910d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	PACE_ILV
100049	RestoreL_IMS_20200331_FY20Q2	5/26/2015	10/2/2025	81%	276,160.8h	2,596d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	RestoreL
IMSConsoL_0006	RestoreL_IMS_20200630_FY20Q3	5/26/2015	12/12/2025	80%	294,728.8h	2,644d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	RestoreL
100048	SLSArtemis1_IMS_20200331_FY20Q2	3/6/2014	7/11/2021	92%	0h	2,684.5d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SLSArte
100050	SLSArtemis2_IMS_20200331_FY20Q2	9/1/2015	8/14/2023	38%	0h	2,048d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SLSArte
100052	SWOT_IMS_20200329_FY20Q2	10/1/2008	10/28/2025	93%	0h	4,271d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SWOT_IL
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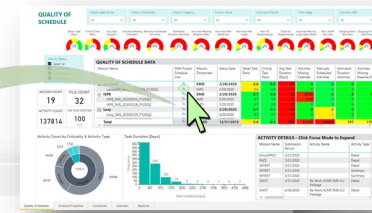
The screenshot shows a project management application with a 'PROJECTS' toolbar and a table of project data. The toolbar includes buttons for 'New', 'Open', 'Add SharePoint Sites', 'Build Team', 'Project Permissions', 'Check in My Projects', 'Zoom In', 'Zoom Out', 'Scroll to Project', 'Outline', 'View', 'Summary Plus', 'Rollups', 'Filter', 'No Filter', 'Add Project', 'Add Task', 'Export to Excel', 'Print', 'Subprojects', 'Time with Date', and 'Change'. The table below lists various projects with columns for Project ID, Project Name, Start, Finish, % Complete, Work, Duration, Owner, Last Published, Enterprise Proj, Project Departn, and Project.

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100046	OrionMPCV_IMS_20200223_FY20Q2	9/28/2012	8/13/2026	61%	0h	3,620d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	OrionM
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Today

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IMSConsoL_0010	LBFD_IMS_20200630_FY20Q3	3/17/2016	2/23/2024	72%	32,744h	1,910d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	LBFD_ILV
100045	Lucy_IMS_20200329_FY20Q2	1/2/2019	11/5/2021	78%	574,086.38h	716d	Shanling Yang	1/16/2021	IMS Consolidate	IMS	Lucy_ILM
IMSConsoL_0011	Lucy_IMS_20200628_FY20Q3	1/2/2019	11/5/2021	78%	574,086.38h	716d	Shanling Yang @NASAPoC	1/16/2021	IMS Consolidate	IMS	Lucy_ILM
IMSConsoL_0014	Lucy_IMS_20200927_FY20Q4	1/2/2019	11/5/2021	89%	626,102.86h	716d	Shanling Yang @NASAPoC	1/16/2021	IMS Consolidate	IMS	Lucy_ILM
IMSConsoL_0008	OrionArtemis1_IMS_20200531_FY20Q3	9/28/2012	12/2/2025	60%	0h	3,438d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	OrionAr
100046	OrionMPCV_IMS_20200223_FY20Q2	9/28/2012	8/13/2026	61%	0h	3,620d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	OrionM
100047	PACE_IMS_20200415_FY20Q2	1/13/2015	7/29/2026	73%	7,622.5h	2,910d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	PACE_ILV
100049	RestoreL_IMS_20200331_FY20Q2	5/26/2015	10/2/2025	81%	276,160.8h	2,596d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	RestoreL
IMSConsoL_0006	RestoreL_IMS_20200630_FY20Q3	5/26/2015	12/12/2025	80%	294,728.8h	2,644d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	RestoreL
100048	SLSArtemis1_IMS_20200331_FY20Q2	3/6/2014	7/11/2021	92%	0h	2,684.5d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SLSArte
100050	SLSArtemis2_IMS_20200331_FY20Q2	9/1/2015	8/14/2023	38%	0h	2,048d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SLSArte
100052	SWOT_IMS_20200329_FY20Q2	10/1/2008	10/28/2025	93%	0h	4,271d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SWOT_IL
IMSConsoL_0012	SWOT_IMS_20200624_FY20Q3	10/1/2008	10/28/2025	94%	0h	4,271d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	SWOT_IL
IMSConsoL_0013	SWOT_IMS_20200927_FY20Q4	10/1/2008	10/28/2025	94%	0h	4,271d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	SWOT_IL
IMSConsoL_0015	TSIS2_IMS_20200401_FY20Q2	10/1/2018	5/8/2026	28%	0h	1,985d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IL
IMSConsoL_0016	TSIS2_IMS_20200630_FY20Q3	10/1/2018	5/8/2026	40%	0h	1,985d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IL
IMSConsoL_0017	TSIS2_IMS_20200930_FY20Q4	10/1/2018	4/6/2027	38%	0h	2,222d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IL



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EDIT LINKS

Project ID	Project Name ↑	Start	Finish	% Complete	Work	Duration	Owner	Last Published	Enterprise Proj	Project Depart	Project
IMSConsoL_0003	JPSS2_IMS_20200525_FY20Q3	1/7/2013	6/29/2022	98%	0h	2,380d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	JPSS2_IH
IMSConsoL_0005	JPSS2_IMS_20200531_FY20Q3	11/13/2015	4/5/2028	88%	0h	3,110d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	JPSS2_IH
100043	Landsat9_IMS_20200228_FY20Q2	3/4/2015	9/30/2021	94%	0h	1,653d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	Landsat
100044	LBFD_IMS_20200430_FY20Q2	3/17/2016	2/23/2024	69%	32,728h	1,910d	Shanling Yang	10/25/2020	IMS Consolidate	IMS	LBFD_IH
IMSConsoL_0010	LBFD_IMS_20200630_FY20Q3	3/17/2016	2/23/2024	72%	32,744h	1,910d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	LBFD_IH
100045	Lucy_IMS_20200329_FY20Q2	1/2/2019	11/5/2021	78%	574,086.38h	716d	Shanling Yang	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0011	Lucy_IMS_20200628_FY20Q3	1/2/2019	11/5/2021	78%	574,086.38h	716d	Shanling Yang @NASAPoC	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0014	Lucy_IMS_20200927_FY20Q4	1/2/2019	11/5/2021	89%	626,102.86h	716d	Shanling Yang @NASAPoC	1/16/2021	IMS Consolidate	IMS	Lucy_IM
IMSConsoL_0008	OrionArtemis1_IMS_20200531_FY20Q3	9/28/2012	12/2/2025	60%	0h	3,438d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	OrionAr
100046	OrionMPCV_IMS_20200223_FY20Q2	9/28/2012	8/13/2026	61%	0h	3,620d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	OrionM
100047	PACE_IMS_20200415_FY20Q2	1/13/2015	7/29/2026	73%	7,622.5h	2,910d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	PACE_IH
100049	RestoreL_IMS_20200331_FY20Q2	5/26/2015	10/2/2025	81%	276,160.8h	2,596d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	RestoreL
IMSConsoL_0006	RestoreL_IMS_20200630_FY20Q3	5/26/2015	12/12/2025	80%	294,728.8h	2,644d	Shanling Yang @NASAPoC	12/1/2020	IMS Consolidate	IMS	RestoreL
100048	SLSArtemis1_IMS_20200331_FY20Q2	3/6/2014	7/11/2021	92%	0h	2,684.5d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SLSArte
100050	SLSArtemis2_IMS_20200331_FY20Q2	9/1/2015	8/14/2023	38%	0h	2,048d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SLSArte
100052	SWOT_IMS_20200329_FY20Q2	10/1/2008	10/28/2025	93%	0h	4,271d	Shanling Yang	11/23/2020	IMS Consolidate	IMS	SWOT_IH
IMSConsoL_0012	SWOT_IMS_20200624_FY20Q3	10/1/2008	10/28/2025	94%	0h	4,271d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	SWOT_IH
IMSConsoL_0013	SWOT_IMS_20200927_FY20Q4	10/1/2008	10/28/2025	94%	0h	4,271d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	SWOT_IH
IMSConsoL_0015	TSIS2_IMS_20200401_FY20Q2	10/1/2018	5/8/2026	28%	0h	1,985d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IH
IMSConsoL_0016	TSIS2_IMS_20200630_FY20Q3	10/1/2018	5/8/2026	40%	0h	1,985d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IH
IMSConsoL_0017	TSIS2_IMS_20200930_FY20Q4	10/1/2018	4/6/2027	38%	0h	2,222d	Shanling Yang @NASAPoC	1/17/2021	IMS Consolidate	IMS	TSIS2_IH





Schedule Management || Quality || Quality of Schedule

QUALITY OF SCHEDULE

Mission Lead Center: All | Mission Directorate: All | Mission Category: All | Mission Name: All | Submission Period: All | Work Stage: All | Common WBS: All



- Activity Status
- Select all
 - Completed
 - In Progress
 - Not Started

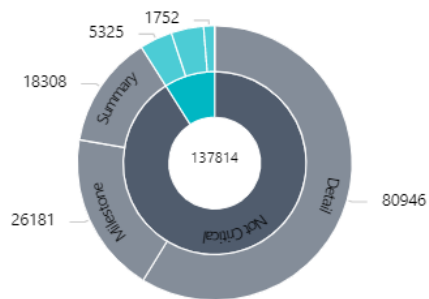
MISSION COUNT: 19 | FILE COUNT: 32

ACTIVITY COUNT: 137814 | AVG TASK DURATION: 100 DAYS

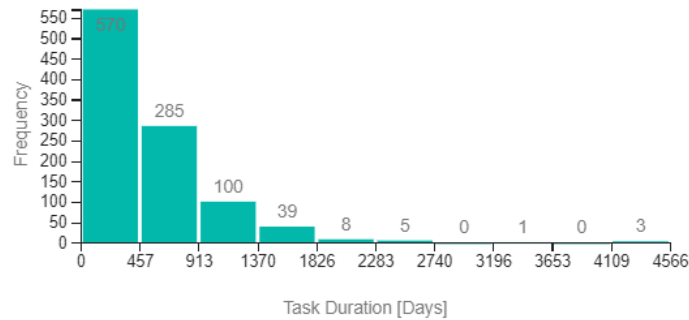
QUALITY OF SCHEDULE DATA

Mission Name	PWA Project Schedule Link	Mission Directorate	Status Date	Detail Task Ratio	Critical Task Ratio	Avg Task Duration [Days]	Activities Missing Calendar	Manually Scheduled Activities	Estimated Duration Activities	Activities Missing Baseline Date
LandSAT9		SMD	2/28/2020	0.6	0.0	92	0	0	0	0
LandSAT9_IMS_20200228_FY20Q2		SMD	2/28/2020	0.6	0.0	92	0	0	0	0
IXPE		SMD	3/28/2020	0.7	0.0	75	2029	0	0	1
IXPE_IMS_20200530_FY20Q3		SMD	5/30/2020	0.7	0.0	75	2029	0	0	0
IXPE_IMS_20200328_FY20Q2		SMD	3/28/2020	0.7	0.0	76	0	0	0	0
Lucy		SMD	3/29/2020	0.7	0.1	80	0	3	0	0
Lucy_IMS_20200329_FY20Q2		SMD	3/29/2020	0.7	0.1	80	0	1	0	0
Total		ARMED	12/31/2019	0.6	0.1	100	22466	30625	197	178

Activity Count by Criticality & Activity Type



Task Duration [Days]



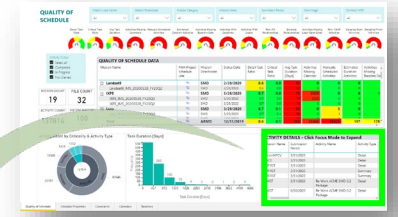
ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity Name	Activity Type
OrionMPCV	3/31/2020		Detail
PACE	3/31/2020		Detail
WFIRST	3/31/2020		Detail
WFIRST	3/31/2020		Summary
WFIRST	3/31/2020		Summary
SWOT	3/31/2020	Re-Work ACME SMD-0.2 Package	Detail
SWOT	6/30/2020	Re-Work ACME SMD-0.2 Package	Detail

Additional details and information can be viewed by expanding graphics.



Additional Details Are Only Clicks Away



Back to report | ACTIVITY DETAILS - CLICK FOCUS MODE TO EXPAND | LAST REFRESH: 4/5/2021, 3:51:45 PM

Mission Name	Submission Period	Activity Name	Activity Type	Task Calendar Name	Common WBS	Start Date	Finish Date	Task Duration [Days]	Total Slack [Days]	Criticality	Task Percent Completed	Constraint Type	Constraint Date	Deadline Date	External Relationships	Manually Scheduled	Merge Type	Predecessors
OrionMPCV	3/31/2020		Detail					0	0	Not Critical	0					0	00	None
PACE	3/31/2020		Detail	None		1/13/2015	1/14/2015	1	0	Critical	0	As Soon As Possible				0	00	None
WFIRST	3/31/2020		Detail	None	7120.5-06.0 Flight System	12/9/2019	2/21/2020	55	0	Not Critical	100	As Soon As Possible				1	00	None
WFIRST	3/31/2020		Summary	None	7120.5-06.0 Flight System	12/9/2019	3/26/2020	79	293	Not Critical	44	As Soon As Possible				1	00	None
WFIRST	3/31/2020		Summary	None	7120.5-06.0 Flight System	6/13/2019	2/18/2020	179	1,478	Not Critical	48	As Soon As Possible				1	00	None
SWOT	3/31/2020	Re-Work ACME SMD-0.2 Package	Detail	None	7120.5-05.0 Payload	7/9/2018	11/6/2018	86	0	Not Critical	100	As Soon As Possible			0	0	00	None
SWOT	6/30/2020	Re-Work ACME SMD-0.2 Package	Detail	None	7120.5-05.0 Payload	7/9/2018	11/6/2018	86	0	Not Critical	100	As Soon As Possible				0	00	None
SWOT	9/30/2020	Re-Work ACME SMD-0.2 Package	Detail	None	7120.5-05.0 Payload	7/9/2018	11/6/2018	86	0	Not Critical	100	As Soon As Possible				0	00	None
Landsat9	3/31/2020	DPAS Dev	Summary	None	7120.5-09.0 Ground	12/2/2016	4/27/2020	853	44	Not Critical	99	As Soon As Possible				0	00	None
Landsat9	3/31/2020	GNE Dev	Summary	None	7120.5-09.0 Ground	12/2/2016	9/22/2020	956	114	Not Critical	86	As Soon As Possible				0	00	None
SWOT	3/31/2020	Coupon Testing (EM2 KDES Controller PDU)	Milestone	None	7120.5-05.0 Payload	5/19/2016	5/19/2016	0	0	Not Critical	100	As Soon As Possible			0	0	01	Single
SWOT	6/30/2020	Coupon Testing (EM2 KDES Controller PDU)	Milestone	None	7120.5-05.0 Payload	5/19/2016	5/19/2016	0	0	Not Critical	100	As Soon As Possible				0	00	None
SWOT	9/30/2020	Coupon Testing (EM2 KDES Controller PDU)	Milestone	None	7120.5-05.0 Payload	5/19/2016	5/19/2016	0	0	Not Critical	100	As Soon As Possible				0	00	None
SWOT	3/31/2020	Develop reduced AMR thermal model for payload	Detail	None	7120.5-05.0 Payload	3/28/2016	5/27/2016	45	0	Not Critical	100	As Soon As Possible			0	0	01	Single
SWOT	6/30/2020	Develop reduced AMR thermal model for payload	Detail	None	7120.5-05.0 Payload	3/28/2016	5/27/2016	45	0	Not Critical	100	As Soon As Possible				0	00	None
SWOT	9/30/2020	Develop reduced AMR thermal model for payload	Detail	None	7120.5-05.0 Payload	3/28/2016	5/27/2016	45	0	Not Critical	100	As Soon As Possible				0	00	None
SWOT	3/31/2020	Electronics Fabrication Prep (EM2 KDES Controller PDUs)	Summary	None	7120.5-05.0 Payload	4/29/2016	5/19/2016	15	0	Not Critical	100	As Soon As Possible				0	00	None
SWOT	6/30/2020	Electronics Fabrication Prep (EM2 KDES Controller PDUs)	Summary	None	7120.5-05.0 Payload	4/29/2016	5/19/2016	15	0	Not Critical	100	As Soon As Possible				0	00	None
SWOT	9/30/2020	Electronics Fabrication Prep (EM2 KDES Controller PDUs)	Summary	None	7120.5-05.0 Payload	4/29/2016	5/19/2016	15	0	Not Critical	100	As Soon As Possible				0	00	None
SWOT	3/31/2020	Initiate HBBs (EM2 KDES Controller PDU)	Detail	None	7120.5-05.0 Payload	5/6/2016	5/19/2016	10	0	Not Critical	100	As Soon As Possible			0	0	01	Single
SWOT	6/30/2020	Initiate HBBs (EM2 KDES Controller PDU)	Detail	None	7120.5-05.0 Payload	5/6/2016	5/19/2016	10	0	Not Critical	100	As Soon As Possible				0	00	None
SWOT	9/30/2020	Initiate HBBs (EM2 KDES Controller PDU)	Detail	None	7120.5-05.0 Payload	5/6/2016	5/19/2016	10	0	Not Critical	100	As Soon As Possible				0	00	None
SWOT	3/31/2020	Procure PWB (EM2 KDES Controller PDU)	Detail	None	7120.5-05.0 Payload	5/6/2016	5/19/2016	10	0	Not Critical	100	As Soon As Possible			0	0	01	Single



Limitless data can be contained within a single page's graphics.



Schedule Management || Metrics || Portfolio Gantt

PORTFOLIO GANTT

Mission Lead Center: All | Mission Directorate: All | Mission Category: All | Mission Name: All | Submission Period: All | Work Stage: All | Common WBS: All

Activity Type

- Select all
- Detail
- Milestone
- Project Summary
- Summary

Activity Status

- Select all
- Completed
- In Progress
- Not Started

MISSION COUNT
19

FILE COUNT
32

ACTIVITY COUNT
114149

AVG TASK DURATION
43
DAYS

PROJECT START DATES OVER TIME

	2011	2012	2015	2016	2018	2020
1	1	4	9	4	13	1

PROJECT FINISH DATES OVER TIME

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	7	1	4	4	6	4	2	1	2	1

SCHEDULE ACTIVITY STARTS OVER TIME

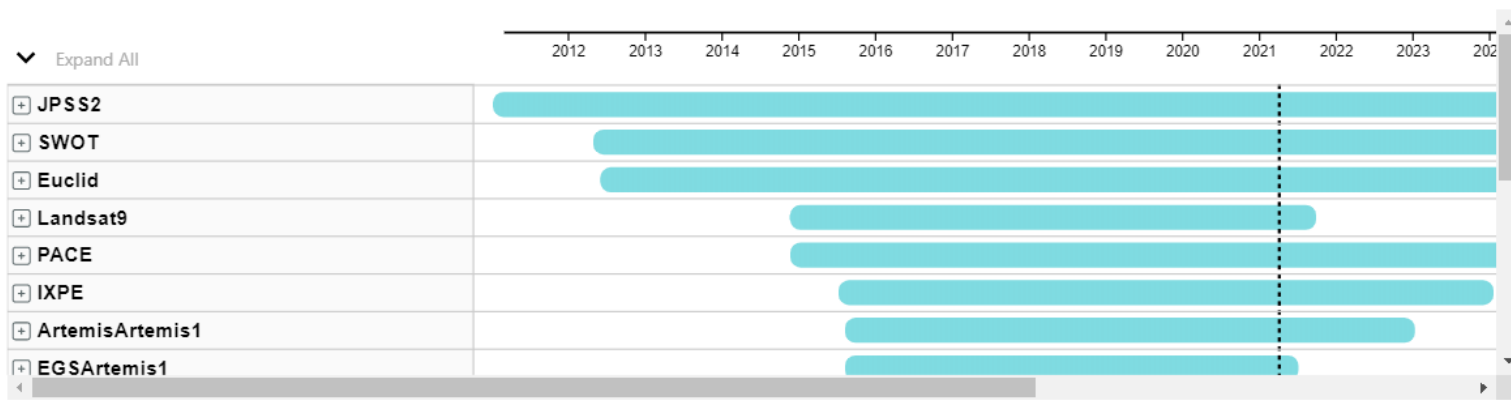
	2008	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	3	3	85	412	1152	1488	3777	9468	10404	14783	22927	30176	12540	4100	1871	675	190	49	20	11	13	1

SCHEDULE ACTIVITY FINISHES OVER TIME

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	3	67	198	1039	1198	3151	8574	9976	14551	21953	32011	13787	4466	2050	721	255	65	24	13	16	30

ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity
ArtemisArtemis1	12/31/2019	Artemi Mass F
ArtemisArtemis1	12/31/2019	Artemi
Gateway	12/31/2019	Develc
Gateway	12/31/2019	Develc Follow
Gateway	12/31/2019	Develc standa



Gantt views can also be created in the TEAMS reports.



Schedule Management || Metrics || Portfolio Gantt

PORTFOLIO GANTT

Mission Lead Center: All | Mission Directorate: All | Mission Category: All | Mission Name: All | Submission Period: All | Work Stage: All | Common WBS: All

Activity Type

- Select all
- Detail
- Milestone
- Project Summary
- Summary

Activity Status

- Select all
- Completed
- In Progress
- Not Started

MISSION COUNT
19

FILE COUNT
32

ACTIVITY COUNT
114149

AVG TASK DURATION
43
DAYS

PROJECT START DATES OVER TIME

	2011	2012	2015	2016	2018	2020
1	1	4	9	4	13	1

PROJECT FINISH DATES OVER TIME

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	7	1	4	4	6	4	2	1	2	1

SCHEDULE ACTIVITY STARTS OVER TIME

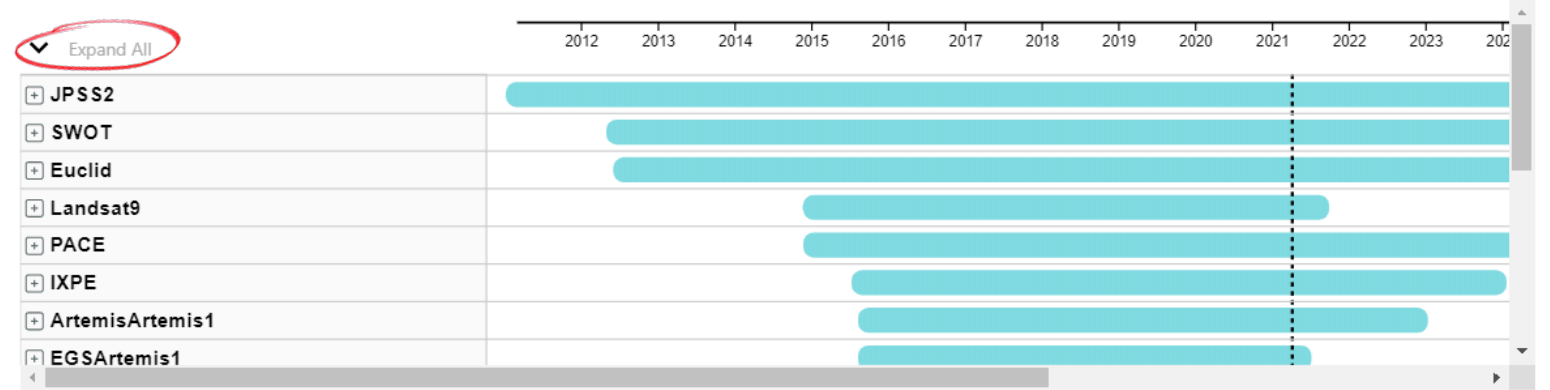
	2008	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	3	3	85	412	1152	1488	3777	9468	10404	14783	22927	30176	12540	4100	1871	675	190	49	20	11	13	1

SCHEDULE ACTIVITY FINISHES OVER TIME

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	3	67	198	1039	1198	3151	8574	9976	14551	21953	32011	13787	4466	2050	721	255	65	24	13	16	30

ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity
ArtemisArtemis1	12/31/2019	Artemi Mass F
ArtemisArtemis1	12/31/2019	Artemi
Gateway	12/31/2019	Develc
Gateway	12/31/2019	Develc Follow
Gateway	12/31/2019	Develc standa



Graphics can easily be expanded to show lower level details.



Schedule Management || Metrics || Portfolio Gantt

PORTFOLIO GANTT

Mission Lead Center: All | Mission Directorate: All | Mission Category: All | Mission Name: All | Submission Period: All | Work Stage: All | Common WBS: All

Activity Type

- Select all
- Detail
- Milestone
- Project Summary
- Summary

Activity Status

- Select all
- Completed
- In Progress
- Not Started

MISSION COUNT
19

FILE COUNT
32

ACTIVITY COUNT
114149

AVG TASK DURATION
43
DAYS

PROJECT START DATES OVER TIME

2011			2012			2015			2016		
2011 Q1	2011 Q2	2011 Q3	2012 Q1	2012 Q2	2012 Q3	2015 Q1	2015 Q3	2015 Q4	2016 Q1	2016 Q2	2016 Q3
1	3	1	2	2	5	2					

PROJECT FINISH DATES OVER TIME

2021			2022			2023			2024			2025		
2021 Q3	2021 Q4	2022 Q1	2022 Q2	2022 Q3	2022 Q4	2023 Q1	2023 Q2	2023 Q3	2023 Q4	2024 Q1	2024 Q2	2024 Q3	2024 Q4	2025 Q1
4	3	1	3	1	4	6								

SCHEDULE ACTIVITY STARTS OVER TIME

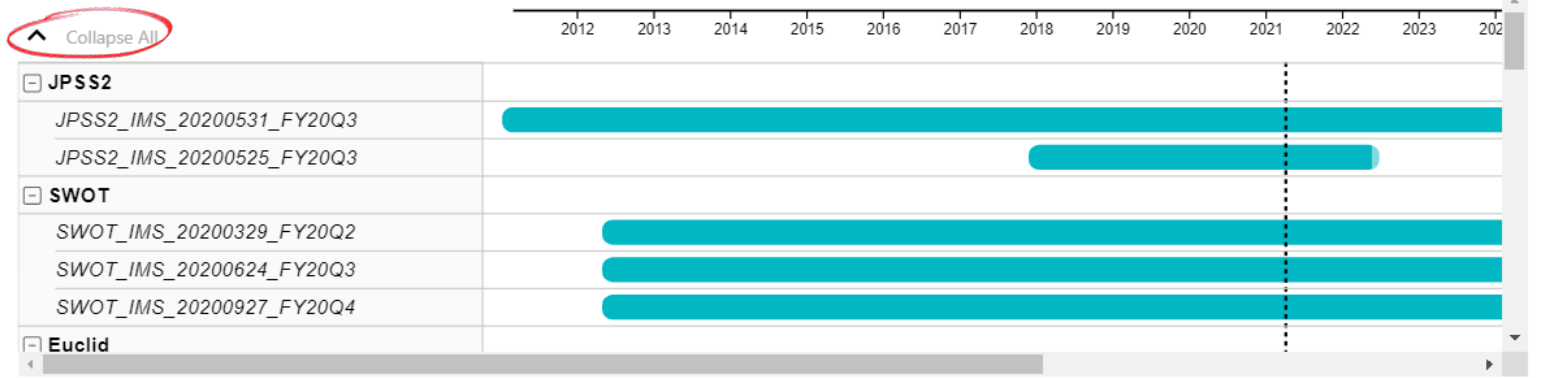
2008				2010			2011				2012				2013				2014	
2008 Q4	2010 Q1	2010 Q2	2010 Q3	2011 Q1	2011 Q2	2011 Q3	2011 Q4	2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3	2013 Q4	2014 Q1	2014 Q2			
1	3	3	1	3	81	45	33	100	234	291	339	343	179	251	596					

SCHEDULE ACTIVITY FINISHES OVER TIME

2010			2011				2012				2013				2014		
2010 Q1	2010 Q2	2010 Q3	2011 Q1	2011 Q2	2011 Q3	2011 Q4	2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3	2013 Q4	2014 Q1	2014 Q2	2014 Q3
1	3	1	3	63	51	21	57	69	226	292	348	173	260	433	227		

ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity
ArtemisArtemis1	12/31/2019	Artemis Mass F
ArtemisArtemis1	12/31/2019	Artemis
Gateway	12/31/2019	Develc
Gateway	12/31/2019	Develc Follow
Gateway	12/31/2019	Develc standa



Portfolio Gantt | Task Ratios | Task Analogies

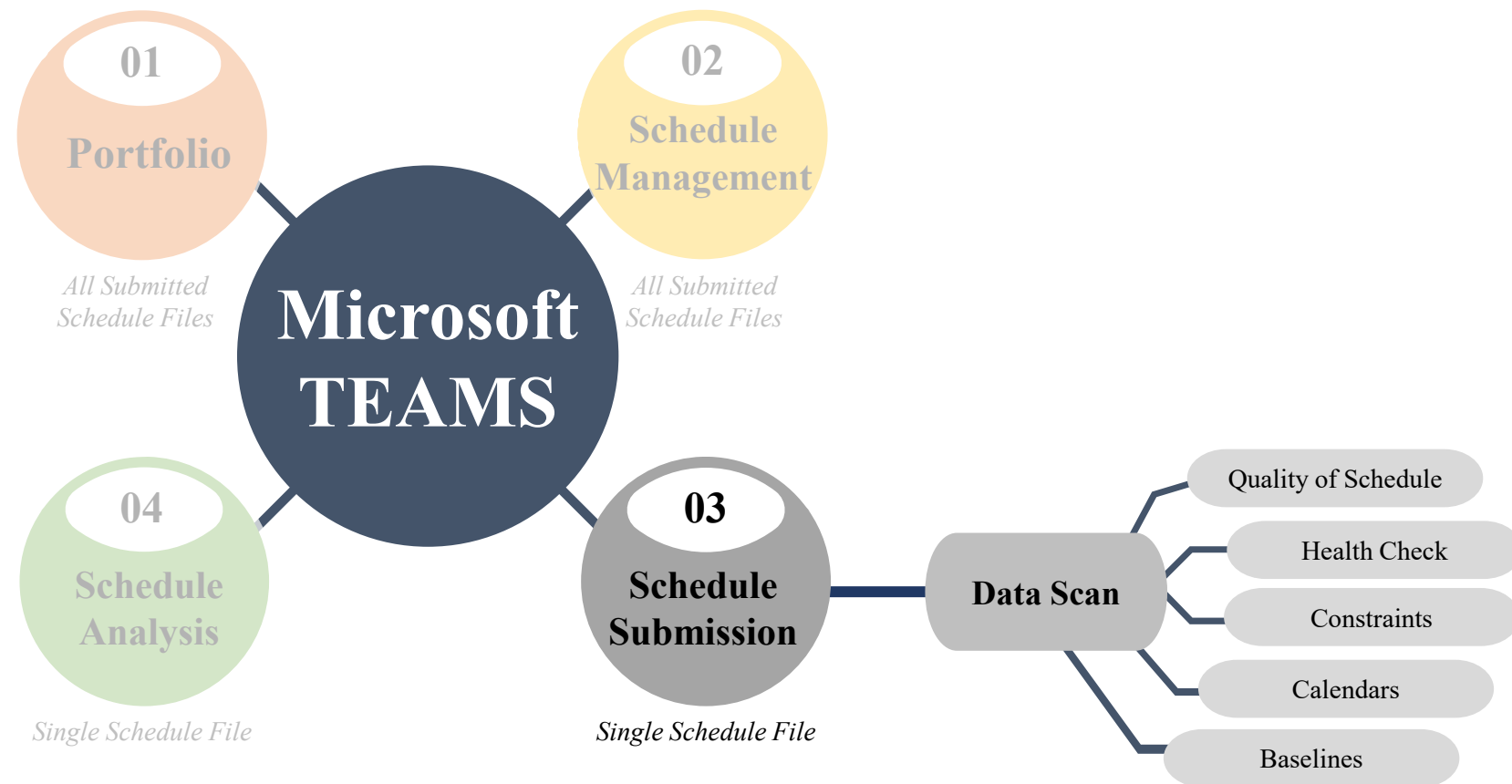


Multiple levels of information can be communicated.





Schedule Submission Channel





Schedule Submission || Data Scan || Health Check

HEALTH CHECK

Home Previous Next

ACTIVITY COUNT

615

AVG TASK DURATION

153

DAYS

Project File

GSF (Mission Lead Center) + JPSS2_IM...

Mission

JPSS2

Mission Lead Center

GSFC

Submission Period

6/30/2020

Status Date

5/25/2020

Activity Type

Select all

Detail

Milestone

Project Summary

Summary

Activity Status

Select all

Completed

In Progress

Not Started

Task Common WBS	Hard Constraint Activities	Soft Constraint Activities	ASAP Activities	Non-ASAP Activities	Activities Missing Logic (Open Ends)	Activities Missing Predecessor	Activities Missing Successor	Summary Tasks With Logic	Avg Task Duration [Days]	Activities Missing Baseline Date
Activities With Constraints										
ASAP Activities										
ALAP Activities										
SNET Activities										
FNET Activities										
SNLT Activities										
FNLT Activities										
MSO Activities										
MFO Activities										
Activities Missing Predecessors										
Activities Missing Successors										
Tasks With Dangling Logic										
Tasks With Leads										
Summary Tasks With Logic										
Activities Missing Baseline Finish										
Invalid Finish Activities										
Activities Missing WBS										
Activities Missing Calendars										
Total	2	613	300	315	56	35	27	0	153	606

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Hard Constraint Activities	0	0	0	1	0	0	0	0	0	1
Soft Constraint Activities	23	32	71	77	59	73	97	118	47	16
ASAP Activities	5	8	27	21	15	29	64	79	36	16
Non-ASAP Activities	18	24	44	57	44	44	33	39	11	1
Activities Missing Logic (Open Ends)	5	3	4	3	1	5	13	15	6	1
Activities Missing Predecessor	5	3	3	3	1	4	7	9	0	0
Activities Missing Successor	1	0	1	0	0	3	7	8	6	1

Activity Count by Constraint & Activity Type

Activity Type: ● Detail ● Milestone

ASAP 127, Milestone 488, Total 615

Activity Count by Constraint Type & Criticality

Criticality: ● Critical ● Not Critical

ASAP 23, Critical 592, Total 615

ACTIVITY DETAILS - Click Focus Mode to Expand

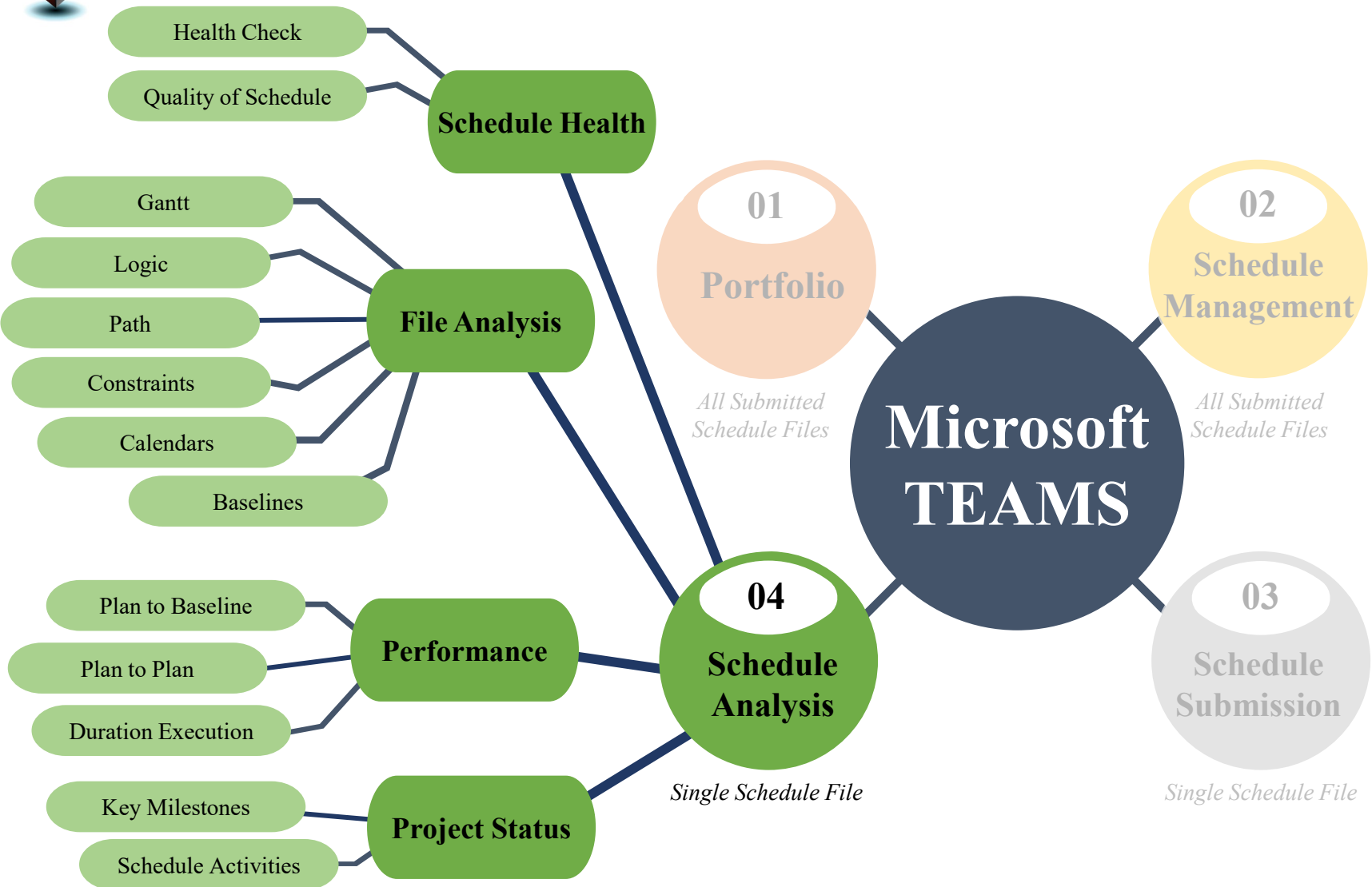
Mission Name	Submission Period	Activity Name	Activity Type	Task Calendar Name	Common WBS	S
JPSS2	6/30/2020	ACS Bench (Temp)	Detail	SSG_Base_2025_v1.0		3
JPSS2	6/30/2020	ACS Bench Assembly/Integration	Detail	JPSS 6d Work Week		1
JPSS2	6/30/2020	Aeroflex PSU Rework, ATP & Close-out Datapacks	Detail	Exelis 5d 8h Standard		1

DATA SCAN [Navigation Page] Quality of Schedule **Health Check** Constraints Calendars Baselines

A Health Check report provides a view into a schedule's build up and components.



Schedule Analysis Channel





Schedule Analysis || Performance || Plan to Baseline Performance

PLAN TO BASELINE PERFORMANCE

Mission Lead Center + Project File

JPL (Mission Lead Center) + SWOT_IMS_20200927_FY20Q4 (Project)

Activity Type: Select all, Detail, Milestone, Project Summary, Summary

Common WBS: All

Work Stage: All

Mission Lead Center: JPL

Project File Name: SWOT_IMS_20200927_FY20Q4

Total Activities	6751
Completed Activities	6520
Non-Completed Activities	231
Activities With Baseline Finish	6145
Activities Missing Baseline Finish	606
Baseline Execution Index BEI	0.91

Activity Finishes

Year	Baseline Finishes	Planned Finishes	Actual Finishes
2010	20	45	
2015	258	687	1784
2020	148	86	714
2025	3	70	
2030	8	4	

Cumulative Activity Finishes

Year	Baseline Finishes	Planned Finishes	Actual Finishes
2010	2	413	
2015	1039	1039	2674
2020	5760	6166	6520
2025	6145	6145	6145
2030	6145	6145	6145

Activities With Baseline Finish

6145

In Progress Baseline Finishes: **58**

Future Baseline Finishes: **167**

Completed Baseline Finishes

5920

Completed By Baseline Finish: **3910**

Completed Late to Baseline Finish: **2010**

Finish Slips to Baseline (Finish Variance) [Days]

MTS SME Su...	885
LRA CTM and...	825
FM2 vacuum ...	762
DAA Shippin...	752
FM2 accepta...	736

Start Delays to Baseline (Start Variance) [Days]

FM DE functi...	4128
FM2 vacuum ...	753
FM2 accepta...	683
Payload Ship...	629
FM2 bake ou...	622

Duration Changes to Baseline (Duration Variance) [Days]

FM DE functi...	3650
MTS Manage...	1052
Software upg...	593
PSE Support	563
SW SE	563

Activities Completed Relative to Baseline Finish

● By Baseline ● Late to Baseline

2010 (34%)

3910 (66%)

Activity Finishes Relative to Baseline Finish

● By Baseline ● Late to Baseline

5K

0K

Completed In Progress Not Started

ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity Name	Baseline Start Date	Baseline Finish Date	Start Date	Fi
SWOT	9/30/2020	DEL Inputs to Update L3 Mission System Requirements	10/1/2008	1/16/2013	10/1/2008	1/
SWOT	9/30/2020	Finalize design, make parts list, order components	10/27/2011	11/2/2011	10/27/2011	11
SWOT	9/30/2020	Develop mold technology (Johnny's lead)	11/1/2011	7/9/2012	11/1/2011	7/

Plan to Baseline
Plan to Plan
Duration Execution

A Plan to Baseline Performance report details a schedule's current performance compared to its baseline.



Schedule Analysis || Performance || Plan to Baseline Performance

PLAN TO BASELINE PERFORMANCE

Mission Lead Center + Project File

JPL (Mission Lead Center) + SWOT_IMS_20200927_FY20Q4 (Project)

Mission Lead Center: JPL
Project File Name: SWOT_IMS_20200927_FY20Q4

Activity Type

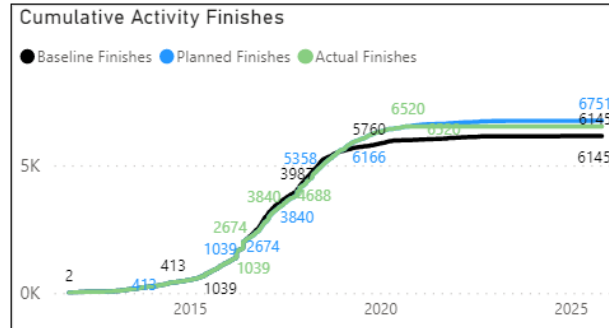
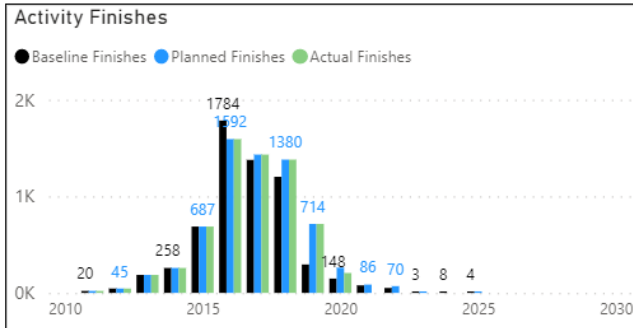
- Select all
- Detail
- Milestone
- Project Summary
- Summary

Common WBS

All

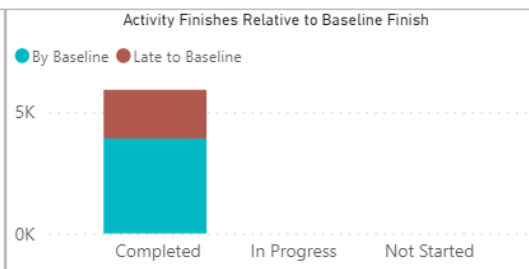
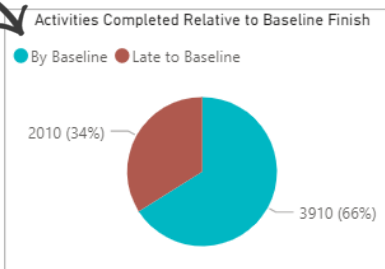
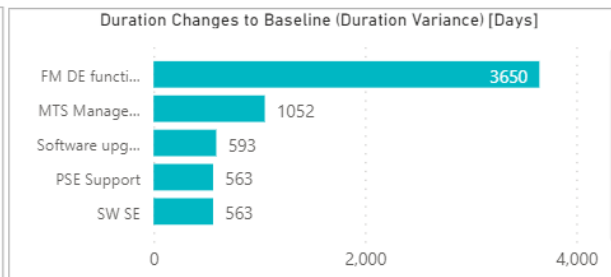
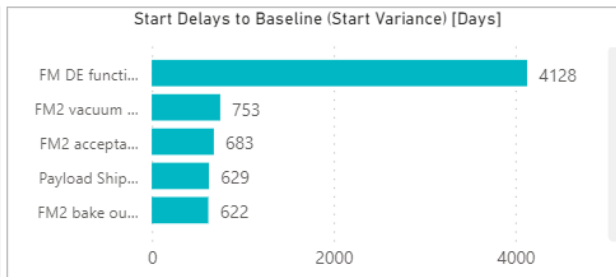
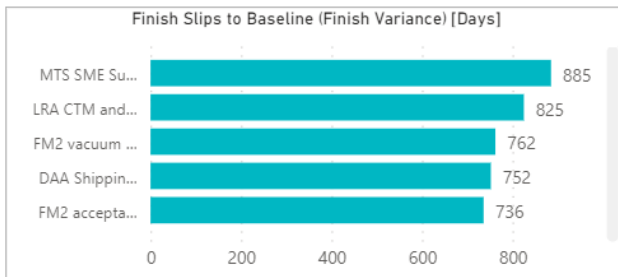
Work Stage

All



Total Activities	6751
Completed Activities	6520
Non-Completed Activities	231
Activities With Baseline Finish	6145
Activities Missing Baseline Finish	606
Baseline Execution Index BEI	0.91

Activities With Baseline Finish	Completed Baseline Finishes
6145	5920
In Progress Baseline Finishes	Completed By Baseline Finish
58	3910
Future Baseline Finishes	Completed Late to Baseline Finish
167	2010



Mission Name	Submission Period	Activity Name	Baseline Start Date	Baseline Finish Date	Start Date	Fi
SWOT	9/30/2020	DEL Inputs to Update L3 Mission System Requirements	10/1/2008	1/16/2013	10/1/2008	1/
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SWOT	9/30/2020	Develop mold technology (Johnny's lead)	11/1/2011	7/9/2012	11/1/2011	7/

Plan to Baseline | Plan to Plan | Duration Execution

✓ Important performance information can be efficiently communicated with various graphics.



Schedule Analysis || Performance || Plan to Plan Performance

PLAN TO PLAN PERFORMANCE

Mission Lead Center + Project File: JPL (Mission Lead Center) + SWOT_IMS_20200927_FY20Q4 (Project)

Common WBS: All

Work Stage: All

Mission Lead Center: JPL

Project File Name: SWOT_IMS_20200927_FY20Q4

Activity Type

- Select all
- Detail
- Milestone
- Project Summary
- Summary

Finish Date Trend From Prior Submission

● Finish Accelerated ● Finish Slipped ● Finish Unchanged

Duration Trend From Prior Submission Activity Count

● Duration Compression ● Duration Growth ● Duration Unchanged

Finish Trend From Prior Submission	Activity Count
Finish Accelerated	9
Finish Slipped	174
Finish Unchanged	6562

Start Trend From Prior Submission	Activity Count
Start Accelerated	8
Start Delayed	150
Start Unchanged	6587

Total Activities	
Total Activities	6751
Completed Activities	6520
Non-Completed Activities	231

Duration Trend From Prior Submission	Activity Count
Duration Compression	51
Duration Growth	63
Duration Unchanged	6631

Finish Date Trend From Prior Submission [Days]

Start Date Trend From Prior Submission [Days]

Duration Changes From Prior Submission [Days]

ACTIVITY DETAILS - Click Focus Mode to Expand

Mission Name	Submission Period	Activity Name	Baseline Start Date	Baseline Finish Date	Start Date	Finish Date	Finish Date Trend [Days]	Start Date Trend [Days]	Duration Trend [Days]	Start Variance [Days]	Finish Variance [Days]	Baseline Duration [Days]	Task Duration [Days]	C	V
SWOT	9/30/2020	Engineering Design Cleanup	12/2/2019	2/21/2020	12/2/2019	7/24/2020	-174	0	-117.00	0	154	81	163		
SWOT	9/30/2020	Cal/Val Develop (Labor)	2/10/2022	1/31/2025	8/25/2022	3/25/2025	-143	0	-101.00	196	53	1086	645		
SWOT	9/30/2020	Cal/Val Ops	4/4/2022	3/25/2025	8/25/2022	3/25/2025	-86	0	-61.00	143	0	1086	645		
SWOT	9/30/2020	Launch Site Sup	8/6/2021	10/29/2021	1/12/2022	4/8/2022	-49	-51	0.00	159	161	84	60		

Plan to Baseline
Plan to Plan
Duration Execution

A Plan to Plan Performance report shows a project schedule's performance trends across multiple submission periods.



NASA Schedule Database: Major Accomplishments

- Commercial tenant setup and configuration (and reconfigurations)
 - 4 months to achieve initial capability demonstration (Oct 2020)
- Processing of submitted schedule files from 4 submission periods in 2020
- Cohesive implementation of MS TEAMS, Power BI, web browser and Project Online (PWA)
- Utilization of FK&A software for efficient data extraction, modeling, and reporting
- Thorough metric survey and creation of initial consolidated list of pertinent metrics and benchmarks
- Documentation of “Lessons Learned”
 - Actual schedule files, setup of the tenant, relevant metrics and thresholds
- Demonstration of system responsiveness and ease of updating
 - 6 new files (3 new missions, 3 existing missions) were added to system and available for analysis within 24 hours





NASA Schedule Database: The Initial Tool Has Been Released



NASA Schedule Database: The Initial Tool Has Been Released

- All licensing costs are included in the Enterprise (TEAMS, Office, PWA)



NASA Schedule Database: The Initial Tool Has Been Released

- ✓ All licensing costs are included in the Enterprise (TEAMS, Office, PWA)
- ✓ Database meets requirements of the requested schedule repository as a schedule file library



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- ✓ Database meets requirements of the requested schedule repository as a schedule file library
- ✓ Individual project files can be given permission-controlled access



NASA Schedule Database: The Initial Tool Has Been Released

- ✓ All licensing costs are included in the Enterprise (TEAMS, Office, PWA)
- ✓ Database meets requirements of the requested schedule repository as a schedule file library
- ✓ Individual project files can be given permission-controlled access
- ✓ Reports are easily customizable for various users with multiple permission level structures



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- ✓ Reports are easily customizable for various users with multiple permission level structures
- ✓ Database reads in files from different NASA directorates



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- ✓ Project files can be easily opened and edited in PWA or Desktop Project



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- ✓ All pieces of the architecture are integrated



NASA Schedule Database: The Initial Tool Has Been Released

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- Database meets requirements of the requested schedule repository as a schedule file library
- Individual project files can be given permission-controlled access
- Reports are easily customizable for various users with multiple permission level structures
- Database reads in files from different NASA directorates
- Project files can be easily opened and edited in PWA or Desktop Project
- Analytics tool can report trending snapshots across multiple submission periods
- Easy report access from Microsoft TEAMS or web browser (Power BI Online)
- All pieces of the architecture are integrated
- Move schedule database and analytics tool inside of the NASA firewall



NASA Schedule Database: A Sandbox For Further Development

Next Steps and Goals:

- Involve other NASA centers to take advantage of the initial schedule database sandbox.
- Obtain feedback from more participants to further develop and mature the tool.

To learn more, please contact the following:

- **Charles Hunt**, APARC Branch Manager, charles.d.hunt@nasa.gov
- **Michele King**, SCoPE Lead, michele.t.king@nasa.gov





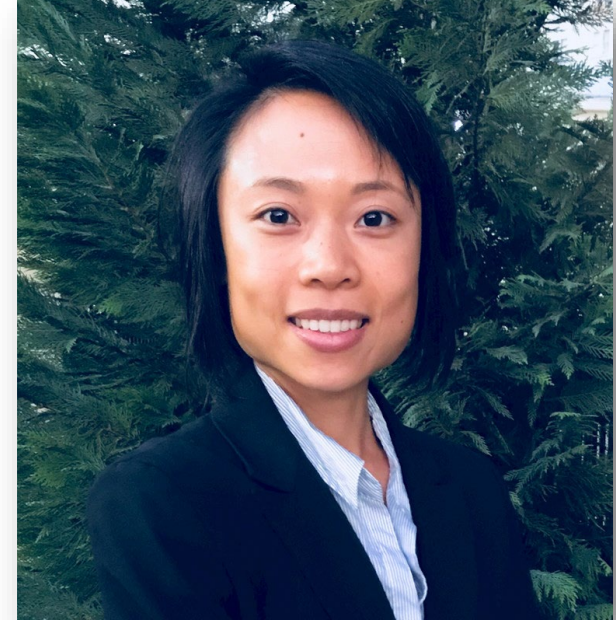
Back Up





Presenter Biography: Shanling Yang, Ph.D.

Shanling Yang obtained her B.S., M.S., and Ph.D. in Aerospace Engineering from the University of Southern California with a research emphasis in low-Reynolds number aerodynamics. Dr. Yang has published numerous journal articles and conference proceedings and has spoken at multiple conferences and international universities. She has several years of Program Management experience, managing programs for various clients including NASA, DARPA, SOCOM, and AFRL. She is currently a Senior Consultant with 4-D Risk Corporation, providing expertise in cost and schedule analysis and risk management.





Schedule Management || Quality || Baselines

BASELINES

Mission Lead Center: All |
 Mission Directorate: All |
 Mission Category: All |
 Mission Name: All |
 Submission Period: All |
 Work Stage: All |
 Common WBS: All

Activity Type
 Select all
 Detail
 Milestone
 Project Summary
 Summary

Activity Status
 Select all
 Completed
 In Progress
 Not Started

MISSION COUNT
 19

FILE COUNT
 32

ACTIVITY COUNT
 137814

AVG TASK DURATION
 100 DAYS

ACTIVITY DETAILS - Click Focus Mode to Expand

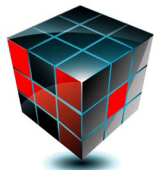
Mission Name	Submission Period	Activity Name
ArtemisArtemis1	12/31/2019	Artemis 1 Mass Prop
ArtemisArtemis1	12/31/2019	Artemis 2 I
Gateway	12/31/2019	Crew and f Training fo
Gateway	12/31/2019	Develop ar
Gateway	12/31/2019	Develop Pi Following
Gateway	12/31/2019	Develop pi

ACTIVITY COUNT BY MISSION & PROJECT FILE

Mission	Project File Name	Activity Count
ArtemisArtemis1	ArtemisArtemis1_IMS_20191231_FY20Q1	513
EGSArtemis1	EGSArtemis1_IMS_20200331_FY20Q2	279
EGSArtemis1	EGSArtemis1_IMS_20200531_FY20Q3	287
Euclid	Euclid_IMS_20200628_FY20Q3	683
Gateway	Gateway_IMS_20200130_FY20Q1	925
Gateway	Gateway_IMS_20200331_FY20Q2	905
IXPE	IXPE_IMS_20200328_FY20Q2	1994
IXPE	IXPE_IMS_20200530_FY20Q3	2029
JPSS2	JPSS2_IMS_20200525_FY20Q3	721
JPSS2	JPSS2_IMS_20200531_FY20Q3	475
Landsat9	Landsat9_IMS_20200228_FY20Q2	7323
LBFD	LBFD_IMS_20200430_FY20Q2	3467
LBFD	LBFD_IMS_20200630_FY20Q3	3621
Lucy	Lucy_IMS_20200329_FY20Q2	2767
Lucy	Lucy_IMS_20200628_FY20Q3	2767
Lucy	Lucy_IMS_20200927_FY20Q4	3052
OrionArtemis1	OrionArtemis1_IMS_20200531_FY20Q3	2641
OrionMPCV	OrionMPCV_IMS_20200223_FY20Q2	2391
PACE	PACE_IMS_20200415_FY20Q2	7922
RestoreL	RestoreL_IMS_20200331_FY20Q2	12225
RestoreL	RestoreL_IMS_20200630_FY20Q3	12259
SLSArtemis1	SLSArtemis1_IMS_20200331_FY20Q2	824
SLSArtemis2	SLSArtemis2_IMS_20200331_FY20Q2	551
SWOT	SWOT_IMS_20200329_FY20Q2	10041
SWOT	SWOT_IMS_20200624_FY20Q3	10072
SWOT	SWOT_IMS_20200927_FY20Q4	10042
TSIS2	TSIS2_IMS_20200401_FY20Q2	1266
TSIS2	TSIS2_IMS_20200630_FY20Q3	1268

BASELINED ACTIVITY COUNT BY MISSION & PROJECT FILE & BASELINE NUMBER

Mission	Project File Name	0	1	2	3
ArtemisArtemis1	ArtemisArtemis1_IMS_20191231_FY20Q1				
EGSArtemis1	EGSArtemis1_IMS_20200331_FY20Q2				
EGSArtemis1	EGSArtemis1_IMS_20200531_FY20Q3				
Euclid	Euclid_IMS_20200628_FY20Q3	651	595	624	
Gateway	Gateway_IMS_20200130_FY20Q1	70			
Gateway	Gateway_IMS_20200331_FY20Q2	70			
IXPE	IXPE_IMS_20200328_FY20Q2	1896	1260		
IXPE	IXPE_IMS_20200530_FY20Q3	1969	1260		
JPSS2	JPSS2_IMS_20200525_FY20Q3	15	3	12	12
JPSS2	JPSS2_IMS_20200531_FY20Q3	31	13	13	13
Landsat9	Landsat9_IMS_20200228_FY20Q2	7323		9	10
LBFD	LBFD_IMS_20200430_FY20Q2	3415	1997	2184	
LBFD	LBFD_IMS_20200630_FY20Q3	3434	1991	2159	
Lucy	Lucy_IMS_20200329_FY20Q2	2759			
Lucy	Lucy_IMS_20200628_FY20Q3	2759			
Lucy	Lucy_IMS_20200927_FY20Q4	3052			
OrionArtemis1	OrionArtemis1_IMS_20200531_FY20Q3				
OrionMPCV	OrionMPCV_IMS_20200223_FY20Q2				
PACE	PACE_IMS_20200415_FY20Q2	7908	7866		
RestoreL	RestoreL_IMS_20200331_FY20Q2	10377	1509	12021	
RestoreL	RestoreL_IMS_20200630_FY20Q3	12188	1513		
SLSArtemis1	SLSArtemis1_IMS_20200331_FY20Q2	51			
SLSArtemis2	SLSArtemis2_IMS_20200331_FY20Q2	11			
SWOT	SWOT_IMS_20200329_FY20Q2	9263	10041	9946	9943
SWOT	SWOT_IMS_20200624_FY20Q3	9283	10060	9966	9963
SWOT	SWOT_IMS_20200927_FY20Q4	9252	10029	9967	9964
TSIS2	TSIS2_IMS_20200401_FY20Q2	1266	33	37	33
TSIS2	TSIS2_IMS_20200630_FY20Q3	1268	47	37	33



Schedule Management || Quality || Baselines

Number of Activities for Baseline 0 (Default)

Mission	Project File Name	Activity Count
ArtemisArtemis1	ArtemisArtemis1_IMS_20191231_FY20Q1	513
EGSArtemis1	EGSArtemis1_IMS_20200331_FY20Q2	279
EGSArtemis1	EGSArtemis1_IMS_20200531_FY20Q3	287
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Gateway	Gateway_IMS_20200130_FY20Q1	925
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IXPE	IXPE_IMS_20200328_FY20Q2	1994
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JPSS2	JPSS2_IMS_20200525_FY20Q3	721
JPSS2	JPSS2_IMS_20200531_FY20Q3	475
Landsat9	Landsat9_IMS_20200228_FY20Q2	7323
Lbfd	Lbfd_IMS_20200430_FY20Q2	3467
Lbfd	Lbfd_IMS_20200630_FY20Q3	3621
Lucy	Lucy_IMS_20200329_FY20Q2	2767
Lucy	Lucy_IMS_20200628_FY20Q3	2767
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SLSArtemis1	SLSArtemis1_IMS_20200331_FY20Q2	824
SLSArtemis2	SLSArtemis2_IMS_20200331_FY20Q2	551
SWOT	SWOT_IMS_20200329_FY20Q2	10041
SWOT	SWOT_IMS_20200624_FY20Q3	10072
SWOT	SWOT_IMS_20200927_FY20Q4	10042
TSIS2	TSIS2_IMS_20200401_FY20Q2	1266
TSIS2	TSIS2_IMS_20200630_FY20Q3	1268
TSIS2	TSIS2_IMS_20200930_FY20Q4	1782
WFIRST	WFIRST_IMS_20200331_FY20Q2	30573
X57	X57_IMS_20200403_FY20Q2	1066
X57	X57_IMS_20200702_FY20Q3	1083

Number of Baselined Activities For Each Project Baseline

Mission	Project File Name	0	1	2	3	4	5	6	7	9	10	Total
ArtemisArtemis1	ArtemisArtemis1_IMS_20191231_FY20Q1											
EGSArtemis1	EGSArtemis1_IMS_20200331_FY20Q2											
EGSArtemis1	EGSArtemis1_IMS_20200531_FY20Q3											
Euclid	Euclid_IMS_20200628_FY20Q3	651	595	624								1870
Gateway	Gateway_IMS_20200130_FY20Q1	70										70
Gateway	Gateway_IMS_20200331_FY20Q2	70										70
IXPE	IXPE_IMS_20200328_FY20Q2	1896	1260									3156
IXPE	IXPE_IMS_20200530_FY20Q3	1969	1260									3229
JPSS2	JPSS2_IMS_20200525_FY20Q3	15	3	12	12	3						45
JPSS2	JPSS2_IMS_20200531_FY20Q3	31	13	13	13	13						83
Landsat9	Landsat9_IMS_20200228_FY20Q2	7323		9	10	17					7016	14375
Lbfd	Lbfd_IMS_20200430_FY20Q2	3415	1997	2184								7596
Lbfd	Lbfd_IMS_20200630_FY20Q3	3434	1991	2159								7584
Lucy	Lucy_IMS_20200329_FY20Q2	2759										2759
Lucy	Lucy_IMS_20200628_FY20Q3	2759										2759
Lucy	Lucy_IMS_20200927_FY20Q4	3052										3052
OrionArtemis1	OrionArtemis1_IMS_20200531_FY20Q3											
OrionMPCV	OrionMPCV_IMS_20200223_FY20Q2											
PACE	PACE_IMS_20200415_FY20Q2	7908	7866								2037	17811
RestoreL	RestoreL_IMS_20200331_FY20Q2	10377	1509	12021							4664	28571
RestoreL	RestoreL_IMS_20200630_FY20Q3	12188	1513								4421	18122
SLSArtemis1	SLSArtemis1_IMS_20200331_FY20Q2	51								9		60
SLSArtemis2	SLSArtemis2_IMS_20200331_FY20Q2	11										11
SWOT	SWOT_IMS_20200329_FY20Q2	9263	10041	9946	9943	9943	9915	88	9556		9453	78148
SWOT	SWOT_IMS_20200624_FY20Q3	9283	10060	9966	9963	9963	9935	88	9576		9473	78307
SWOT	SWOT_IMS_20200927_FY20Q4	9252	10029	9967	9964	9964	9904	88	9577		9474	78219
TSIS2	TSIS2_IMS_20200401_FY20Q2	1266	33	37	33						1	1370
TSIS2	TSIS2_IMS_20200630_FY20Q3	1268	47	37	33						1	1386
TSIS2	TSIS2_IMS_20200930_FY20Q4	1782	49	38	34						1	1904
WFIRST	WFIRST_IMS_20200331_FY20Q2	29957										29957
X57	X57_IMS_20200403_FY20Q2		610	596							950	2156
X57	X57_IMS_20200702_FY20Q3		610	596							966	2172

Schedule Managers can quickly identify how well any given schedule's activities are baselined.



Schedule Management || Quality || Baselines

ACTIVITY COUNT BY MISSION & PROJECT FILE

Mission	Project File Name	Activity Count
ArtemisArtemis1	ArtemisArtemis1_IMS_20191231_FY20Q1	513
EGSArtemis1	EGSArtemis1_IMS_20200331_FY20Q2	279
EGSArtemis1	EGSArtemis1_IMS_20200531_FY20Q3	287
Euclid	Euclid_IMS_20200628_FY20Q3	683
Gateway	Gateway_IMS_20200130_FY20Q1	925
Gateway	Gateway_IMS_20200331_FY20Q2	905
IXPE	IXPE_IMS_20200328_FY20Q2	1994
IXPE	IXPE_IMS_20200530_FY20Q3	2029
JPSS2	JPSS2_IMS_20200525_FY20Q3	721
JPSS2	JPSS2_IMS_20200531_FY20Q3	475
Landsat9	Landsat9_IMS_20200228_FY20Q2	7323
LBFD	LBFD_IMS_20200430_FY20Q2	3467
LBFD	LBFD_IMS_20200630_FY20Q3	3621
Lucy	Lucy_IMS_20200329_FY20Q2	2767
Lucy	Lucy_IMS_20200628_FY20Q3	2767
Lucy	Lucy_IMS_20200927_FY20Q4	3052
OrionArtemis1	OrionArtemis1_IMS_20200531_FY20Q3	2641
OrionMPCV	OrionMPCV_IMS_20200223_FY20Q2	2391
PACE	PACE_IMS_20200415_FY20Q2	7922
RestoreL	RestoreL_IMS_20200331_FY20Q2	12225
RestoreL	RestoreL_IMS_20200630_FY20Q3	12259
SLSArtemis1	SLSArtemis1_IMS_20200331_FY20Q2	824
SLSArtemis2	SLSArtemis2_IMS_20200331_FY20Q2	551
SWOT	SWOT_IMS_20200329_FY20Q2	10041
SWOT	SWOT_IMS_20200624_FY20Q3	10072
SWOT	SWOT_IMS_20200927_FY20Q4	10042
TSIS2	TSIS2_IMS_20200401_FY20Q2	1266
TSIS2	TSIS2_IMS_20200630_FY20Q3	1268
TSIS2	TSIS2_IMS_20200930_FY20Q4	1782
WFIRST	WFIRST_IMS_20200331_FY20Q2	30573
X57	X57_IMS_20200403_FY20Q2	1066
X57	X57_IMS_20200702_FY20Q3	1083

Number of Activities for Baseline 0 (Default)

Mission	Project File Name	Activity Count
ArtemisArtemis1	ArtemisArtemis1_IMS_20191231_FY20Q1	513
EGSArtemis1	EGSArtemis1_IMS_20200331_FY20Q2	279
EGSArtemis1	EGSArtemis1_IMS_20200531_FY20Q3	287
Euclid	Euclid_IMS_20200628_FY20Q3	683
Gateway	Gateway_IMS_20200130_FY20Q1	925
Gateway	Gateway_IMS_20200331_FY20Q2	905
IXPE	IXPE_IMS_20200328_FY20Q2	1994
IXPE	IXPE_IMS_20200530_FY20Q3	2029
JPSS2	JPSS2_IMS_20200525_FY20Q3	721
JPSS2	JPSS2_IMS_20200531_FY20Q3	475
Landsat9	Landsat9_IMS_20200228_FY20Q2	7323
LBFD	LBFD_IMS_20200430_FY20Q2	3467
LBFD	LBFD_IMS_20200630_FY20Q3	3621
Lucy	Lucy_IMS_20200329_FY20Q2	2767
Lucy	Lucy_IMS_20200628_FY20Q3	2767
Lucy	Lucy_IMS_20200927_FY20Q4	3052
OrionArtemis1	OrionArtemis1_IMS_20200531_FY20Q3	2641
OrionMPCV	OrionMPCV_IMS_20200223_FY20Q2	2391
PACE	PACE_IMS_20200415_FY20Q2	7922
RestoreL	RestoreL_IMS_20200331_FY20Q2	12225
RestoreL	RestoreL_IMS_20200630_FY20Q3	12259
SLSArtemis1	SLSArtemis1_IMS_20200331_FY20Q2	824
SLSArtemis2	SLSArtemis2_IMS_20200331_FY20Q2	551
SWOT	SWOT_IMS_20200329_FY20Q2	10041
SWOT	SWOT_IMS_20200624_FY20Q3	10072
SWOT	SWOT_IMS_20200927_FY20Q4	10042
TSIS2	TSIS2_IMS_20200401_FY20Q2	1266
TSIS2	TSIS2_IMS_20200630_FY20Q3	1268
TSIS2	TSIS2_IMS_20200930_FY20Q4	1782
WFIRST	WFIRST_IMS_20200331_FY20Q2	30573
X57	X57_IMS_20200403_FY20Q2	1066
X57	X57_IMS_20200702_FY20Q3	1083

Number of Baselined Activities For Each Project Baseline

Mission	Project File Name	0	1	2	3	4	5	6	7	9	10	Total
ArtemisArtemis1	ArtemisArtemis1_IMS_20191231_FY20Q1											
EGSArtemis1	EGSArtemis1_IMS_20200331_FY20Q2											
EGSArtemis1	EGSArtemis1_IMS_20200531_FY20Q3											
Euclid	Euclid_IMS_20200628_FY20Q3	651	595	624								1870
Gateway	Gateway_IMS_20200130_FY20Q1	70										70
Gateway	Gateway_IMS_20200331_FY20Q2	70										70
IXPE	IXPE_IMS_20200328_FY20Q2	1896	1260									3156
IXPE	IXPE_IMS_20200530_FY20Q3	1969	1260									3229
JPSS2	JPSS2_IMS_20200525_FY20Q3	15	3	12	12	3						45
JPSS2	JPSS2_IMS_20200531_FY20Q3	31	13	13	13	13						83
Landsat9	Landsat9_IMS_20200228_FY20Q2	7323			9	10	17				7016	14375
LBFD	LBFD_IMS_20200430_FY20Q2	3415	1997	2184								7596
LBFD	LBFD_IMS_20200630_FY20Q3	3434	1991	2159								7584
Lucy	Lucy_IMS_20200329_FY20Q2	2759										2759
Lucy	Lucy_IMS_20200628_FY20Q3	2759										2759
Lucy	Lucy_IMS_20200927_FY20Q4	3052										3052
OrionArtemis1	OrionArtemis1_IMS_20200531_FY20Q3											
OrionMPCV	OrionMPCV_IMS_20200223_FY20Q2											
PACE	PACE_IMS_20200415_FY20Q2	7908	7866							2037		17811
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SWOT	SWOT_IMS_20200329_FY20Q2	9263	10041	9946	9943	9943	9915	88	9556	9453		78148
SWOT	SWOT_IMS_20200624_FY20Q3	9283	10060	9966	9963	9963	9935	88	9576	9473		78307
SWOT	SWOT_IMS_20200927_FY20Q4	9252	10029	9967	9964	9964	9904	88	9577	9474		78219
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TSIS2	TSIS2_IMS_20200930_FY20Q4	1782	49	38	34						1	1904
WFIRST	WFIRST_IMS_20200331_FY20Q2	29957										29957
X57	X57_IMS_20200403_FY20Q2		610	596						950		2156
X57	X57_IMS_20200702_FY20Q3		610	596						966		2172

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