



# One NASA Cost Engineering Database (ONCE) 2023 Update NASA Cost & Schedule Symposium

2 – 4 May 2023

NASA HQ OCFO Strategic Investments Division

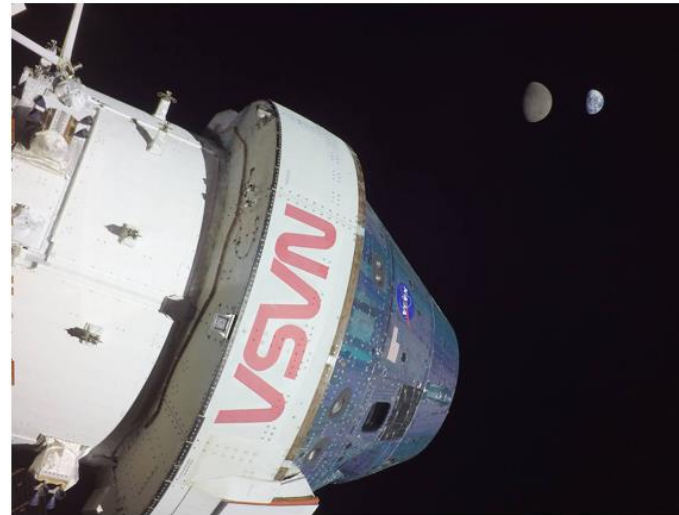
James K. Johnson, Eric Plumer, Julie McAfee (SAIC), Mike Blandford (SAIC)



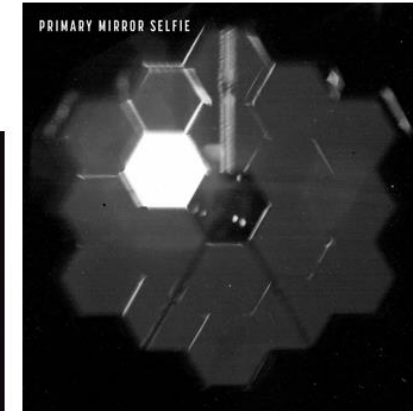
# Overview



- **ONCE Background**
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- **Conclusion**



Orion



JWST Images



SWOT



Artemis 1

## [ONCE Virtual Live Demo:](#)

7 June 2023, 1pm Eastern

RSVP to [hq-oncesupport@mail.nasa.gov](mailto:hq-oncesupport@mail.nasa.gov) for Invite



# What is ONCE and CADRe?



- The ONCE Database (aka <https://oncedata.hq.nasa.gov>, aka “ONCE”) is a government website managed by HQ OCFO SID that provides access to technical, cost, schedule and other programmatic information about NASA Projects.
- The data primarily comes from CADRe (Cost Analysis Data Requirements)
  - CADRe is the Agency’s formal cost data collection initiative in NPR 7120.5F
  - CADRe is managed and funded by SID and performed during lifecycle reviews on Projects
  - Part A = Long narrative describing the mission, design, spacecraft, etc. (MS Word doc)
  - Part B = Technical Data (MS Excel file)
  - Part C = Cost, Schedule, Risk, Programmatic Data (MS Excel file)
- The website provides a user interface to search and retrieve data
  - Enables users to quickly build analogy datasets, develop estimating relationships, conduct assessments, examine historical trends, and many other important functions that support NASA projects and decision makers
- Request access to ONCE via IDMax/NAMS (<https://nams.nasa.gov>)
  - ONCE is behind the NASA firewall and intended for NASA CS and NASA Contractors
    - Exclusions include: NASA prime contractors, Academia/Universities, Foreign/International
  - For more information on ONCE and how to request access:
    - [https://www.nasa.gov/offices/ocfo/functions/models\\_tools/CADRe\\_ONCE.html](https://www.nasa.gov/offices/ocfo/functions/models_tools/CADRe_ONCE.html)

The image displays a collage of screenshots from the ONCE and CADRe web applications. The top row shows the ONCE main interface with a table of project data, a message from OCFO SID, and a 'Number of Users by Center' bar chart. The middle row shows the CADRe interface with a 'CADRes by Milestone' bar chart and a 'CADRe By Status' pie chart. The bottom row shows a detailed CADRe filter grid with various technical parameters and a 'Cost Management' box plot chart.



# ONCE Database at the Center

- The ONCE database is at the center of OCFO SID efforts to build and improve the NASA community.
- ONCE empowers analysts and improves estimating at NASA by providing access to:

- **CADRe Data**

- Active filtering for custom user reports
- CADRe Library

- **Auxiliary Data**

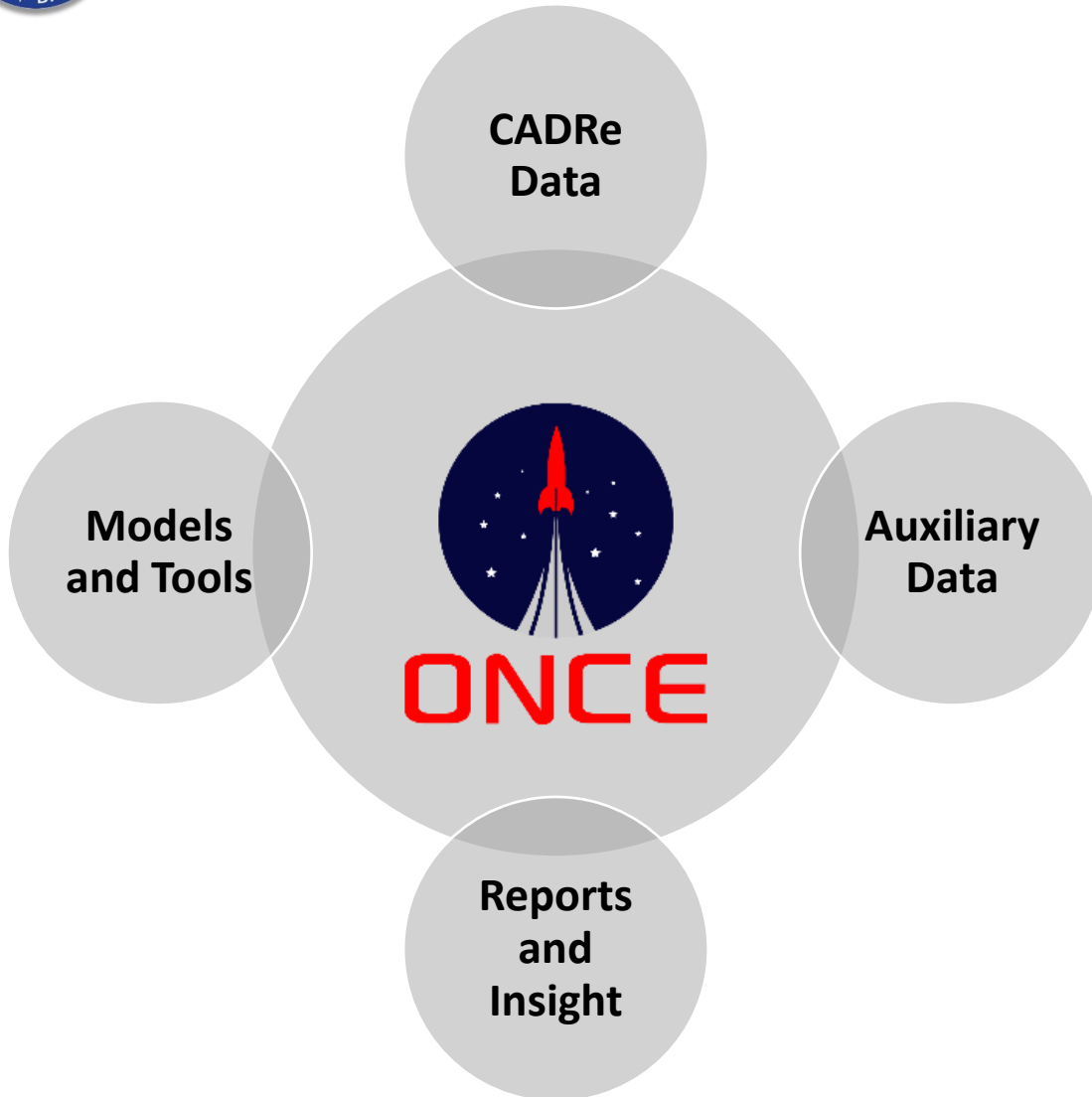
- Normalized datasets
- Multiple Electronic Libraries (Symposium, Schedule, KDP, etc.)

- **Reports and Insight**

- Dynamic graphical & tabular reports
- Structured database reporting
- **PowerBI export format**

- **Models and Tools**

- Model Portal sharing access across community
- Online Models
- **Container Hosting**



# ONCE Major Improvements



## ✓ Online CADRe Entry in ONCE

- Piloting (EZIE) CADRe entry directly into ONCE for CADRe Developers
- Validation of data prior to database import
- Reuse of prior data and structure to improve consistency and save time
- CADRe documents can be created by ONCE

## ✓ AWS Container Hosting

- Container hosting capability via AWS ECS
- Incorporated and operating the first container for models hosted in Other OS (Linux)
- Pilot #1: MSFC Planetary Program Office and Aerospace Corp, “aView” [STAGING]
- Pilot #2: JPL and SID, “ONSET: ASCOT & COMPACT” [ACTIVE DEV]
- Pilot #3: SID and APARC, “SMART” [ACTIVE DEV]

Online CADRe Entry in ONCE

## ✓ PowerBI Export Format

- Export capability from ONCE User Reports menu item
- Includes both Technical and Cost data
- Includes CADRe, NICM, and NAFCOM datasets
- Format is “PowerBI-ready” for easy import and update

PowerBI Export Format

## ✓ Model Portal

- Incorporated new version NICM v10 (CS & Contractor)
- Added SEER by Galorath (Instructions & License only)
- Includes updates to ASCoT and COMPACT

## ✓ File Library

- Large expansion of KDP File Library (KDP Memo’s & Datasheets on 120+ Projects)
- Decision Memo Example Files: KDP0/1/2/A/B/C/D/E (aligned with 7120.5F)



# ONCE Numbers & Information Summary

**Model Downloads: 2380+**  
**Top Models:** Fuse, ACEIT/JACS, NICM, PCEC, MOCET, SMART

10 models & tools available for users to download

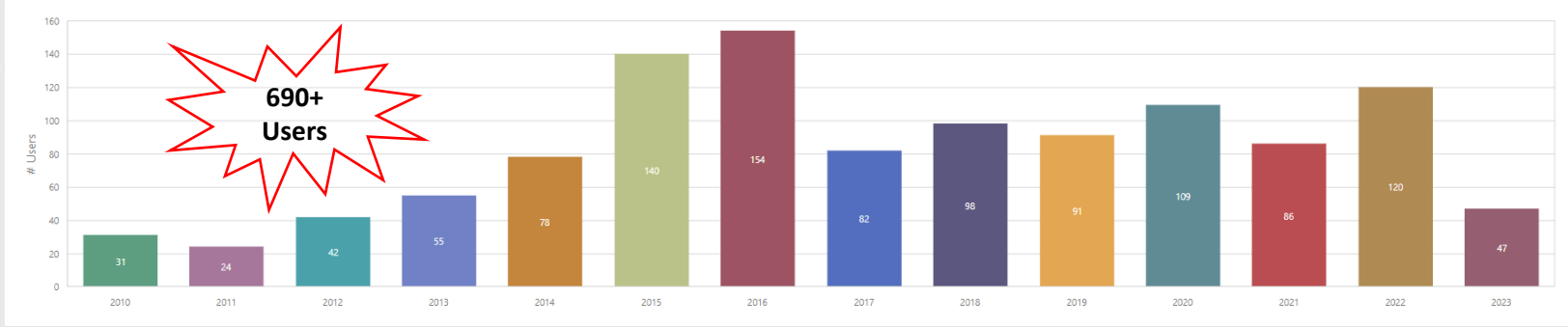
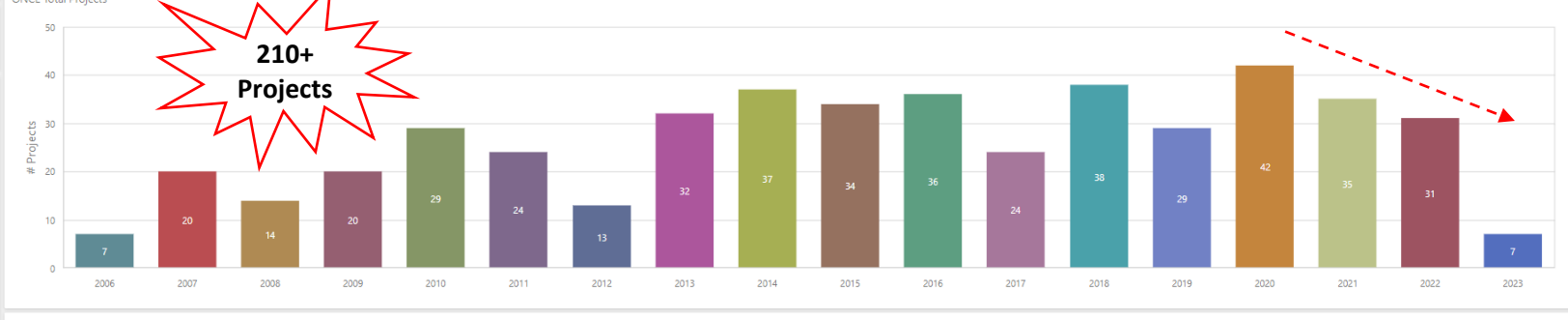
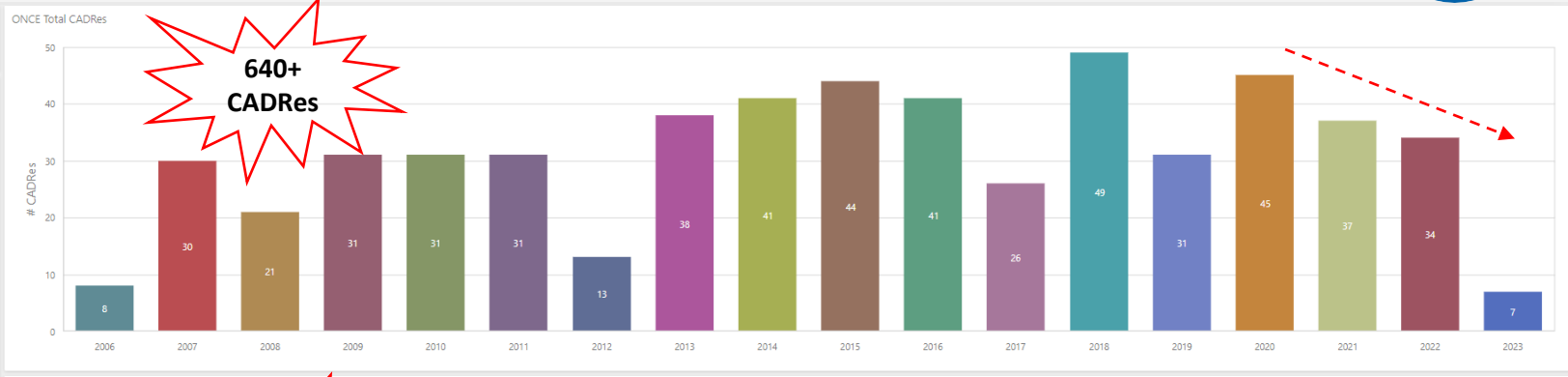
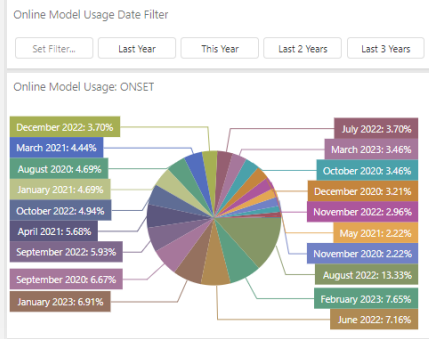
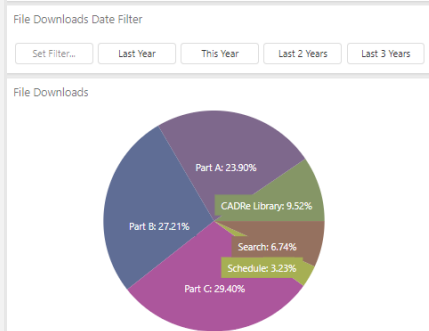
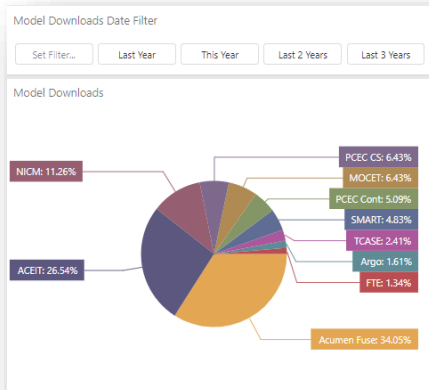
**Total Size: 308GB (+14GB)**  
 79k (+2k) documents

**Most Popular CADRes:**  
 JUNO, ACE, Insight, NuStar

LRD is most popular CADRe Milestones

**Online Model Usage:**  
 30-40 Avg Users/Month

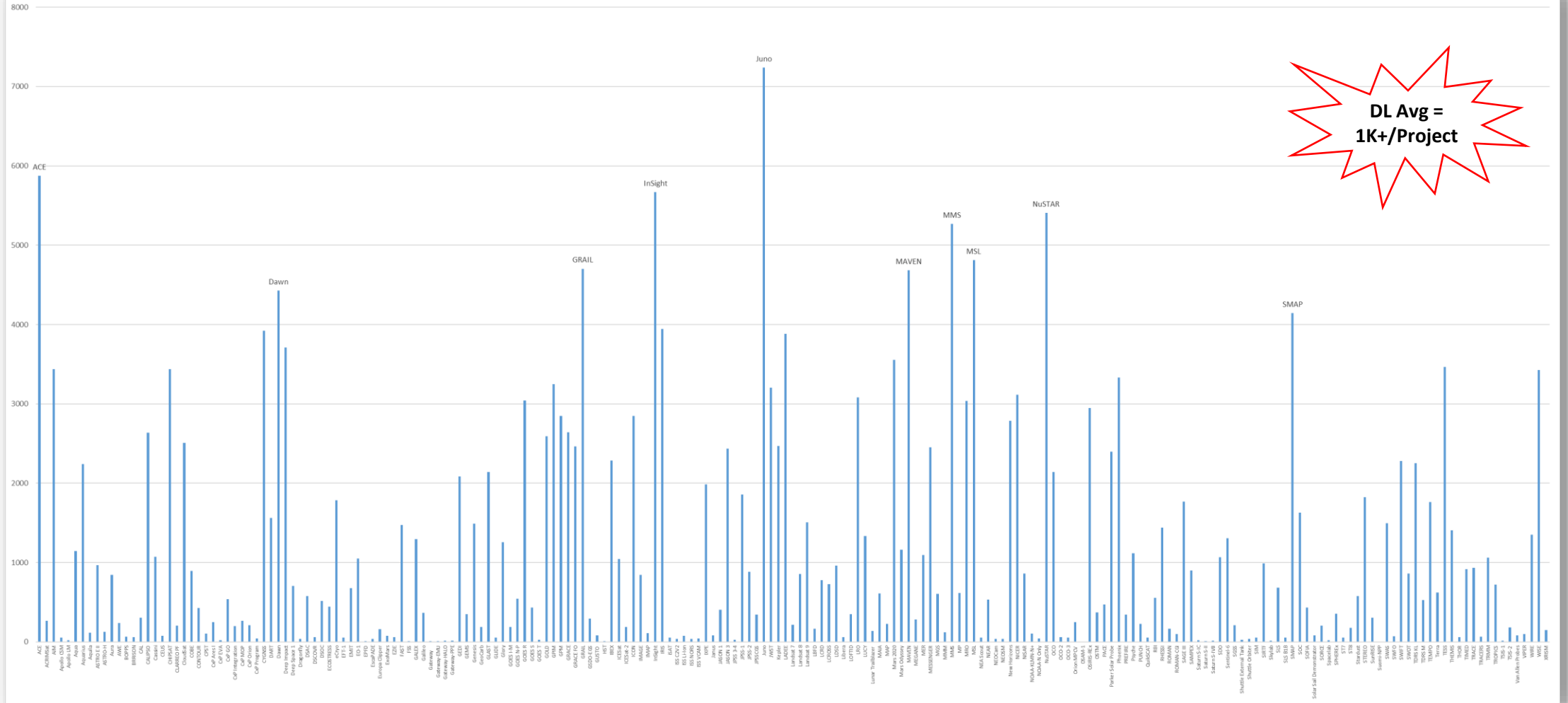
Includes both ASCoT and COMPACT





# ONCE Downloads – CADRe Usage (230K Downloads)

Most Popular CADRe Downloads from ONCE



**DL Avg =  
1K+/Project**

Top 10: JUNO, ACE, InSight, NuSTAR, MMS, MSL, GRAIL, MAVEN, DAWN, SMAP

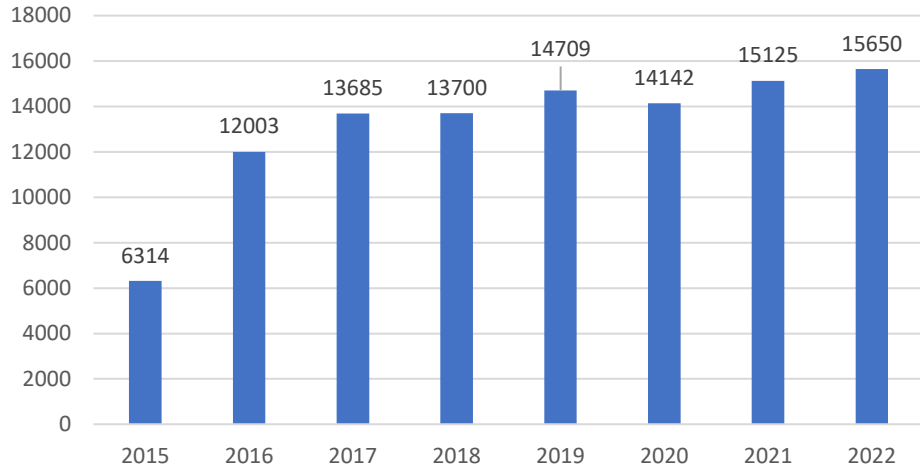


# ONCE Growth- CADRe Usage

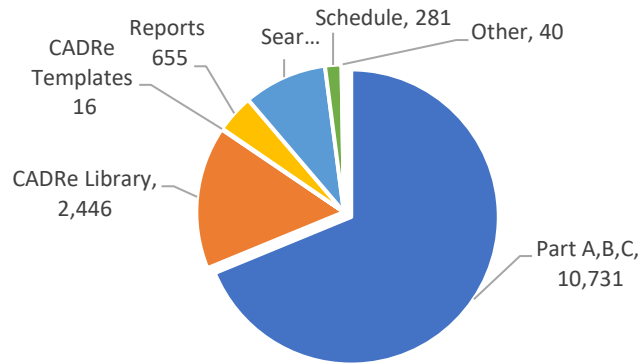


**CADRe has Experienced a 146% Usage Growth just since 2015**

**CADRe File Related Downloads 2015-2022**



**Flavors of CADRe Downloads**



**15,650 Files Downloaded in 2022 equals  
~156,500 pages (10 pages/file)  
Each page is approximately 0.004 Inches  
thick (per google)  
This equals 626 Inches or 52 Feet**

**52 Feet**

**Approximately 52 Feet of CADRes &  
CADRe Source Documents Downloaded  
from ONCE Every Year!**







CADRe DATA

# Online Data Entry



## Online CADRe Entry: Status & Benefits



- **Current Status: Pilot with EZIE CADRe**

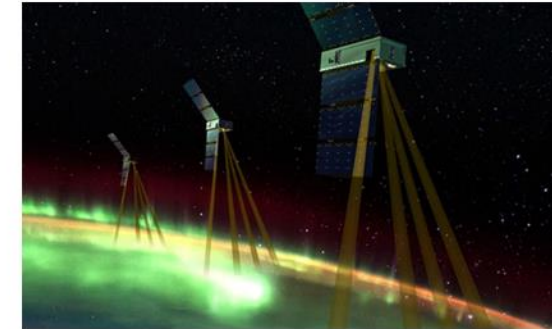
- EZIE CDR CADRe approx. 75% Complete
- Feedback from Pilot will inform next iteration

- **Next Milestones:**

1. Initial Capability for limited rollout (2023)
2. Full Capability for rollout to all CADRe Developers (early 2024)

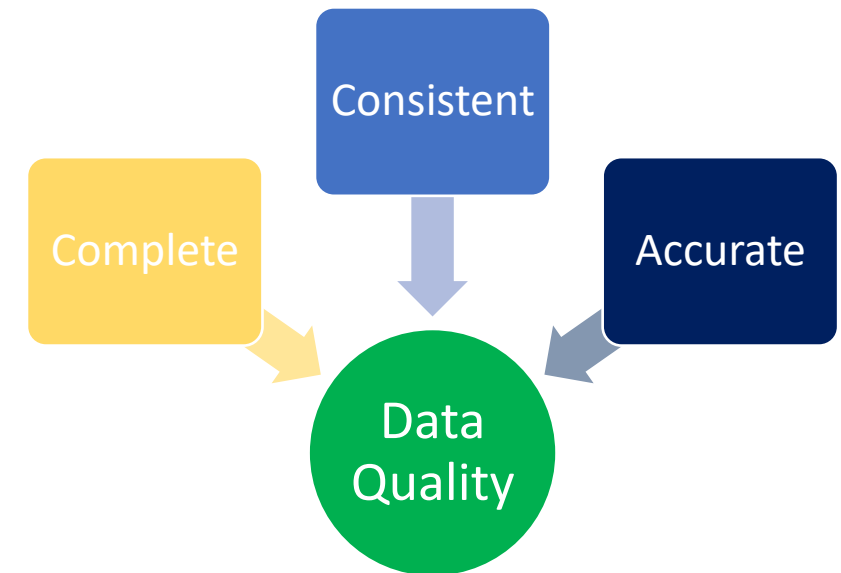
- **Benefits:**

- Improve data quality
- Decrease time to upload/ingest data
- Increase consistency and traceability
- Improve CADRe Developer environment
- Prior milestone brought forward: wbs, naming, etc.
- Multiple entry methods: Online and Offline w/Template
- Offline entry supports equations
- Easy update/revision for new fields, adjustments, etc.



EZIE Mag 4 Kids

EZIE





# CADRe Entry – Online and Offline

- Data entry via Online Entry, Copy/Paste, & Offline Template

Online Data Entry Menu Items & Instructions

The screenshot displays the CADRe online data entry interface. On the left is a sidebar menu with categories like 'Part A', 'Part B', and 'Part C'. The main area shows a spreadsheet titled 'Safety and Mission Assurance' with columns for 'NASA WBS Elements', 'WBS Element Type', 'Level', and 'Thousands?'. A dropdown menu is open for 'Safety and Mission Assurance' showing 'Element Type' options. A blue box labeled 'Entry Selections' points to the dropdown. At the top, navigation buttons include 'View NASA Standard WBS', 'CADRe Notes', 'Download Template', 'Upload Completed Template', and 'Save Worksheet'. A text box explains that users can create a Part C offline or paste data into the spreadsheet.

Online Entry, Copy/Paste, and Offline Template available



# Online CADRe Entry – QA/Error Detection

- New CADRe entry process supports automated QA & error detection

CADRe Part B  
Technical  
Parameters  
Input Form

**MISSION KEY PARAMETERS: EZIE - CDR**

Mission Project Name	<input type="text" value="EZIE"/>
NASA Program Source	* <input type="text" value=""/> <b>Program is required.</b>
Mission Design Life, months	<input type="text" value="18"/>
Num of Contractors	<input type="text" value="5"/>
Num Govt. Organizations	<input type="text" value="1"/>
Cruise Duration (months)	<input type="text" value="18"/>
Primary Science Duration (months)	<input type="text" value="16"/>
Target Body	Earth (Observing) ▾
Mission Reliability Class	D ▾
Mission Category	CAT 3 ▾
AO or Directed	AO Mission ▾
Heritage Design Rating	Mod Design with High Heritage ▾
Is there science during cruise?	Yes ▾
Trajectory Class	LEO-Sun Sync ▾
Power Mode	<input type="text"/>
Total Data Return	<input type="text"/> Gb ▾
Total Dry Mass	<input type="text"/> kg ▾
Total Dry Mass w/Cont	<input type="text"/> kg ▾
Total Average System Power	<input type="text"/> W ▾
Total Peak System Power	<input type="text"/> W ▾
Orbital Periapsis	<input type="text"/>
Orbital Apoapsis	<input type="text"/>
Inclination, degrees	<input type="text"/>
Launch Vehicle	SpaceX Falcon 9
Third Stage?	No ▾

Missing  
Data

**MISSION KEY PARAMETERS: EZIE - CDR**

Mission Project Name	<input type="text" value="EZIE"/>
NASA Program Source	<input type="text" value="Earth Exploration"/>
Mission Design Life, months	<input type="text" value="18"/>
Num of Contractors	two <b>Input is not a number</b>
Num Govt. Organizations	<input type="text" value="1"/>
Cruise Duration (months)	<input type="text" value="18"/>
Primary Science Duration (months)	<input type="text" value="16"/>
Target Body	Earth (Observing) ▾
Mission Reliability Class	D ▾
Mission Category	CAT 3 ▾
AO or Directed	AO Mission ▾
Heritage Design Rating	Mod Design with High Heritage ▾
Is there science during cruise?	Yes ▾
Trajectory Class	LEO-Sun Sync ▾
Power Mode	<input type="text"/>
Total Data Return	<input type="text"/> Gb ▾
Total Dry Mass	<input type="text"/> kg ▾
Total Dry Mass w/Cont	<input type="text"/> kg ▾
Total Average System Power	<input type="text"/> W ▾
Total Peak System Power	<input type="text"/> W ▾
Orbital Periapsis	<input type="text"/>
Orbital Apoapsis	<input type="text"/>
Inclination, degrees	<input type="text"/>
Launch Vehicle	SpaceX Falcon 9
Third Stage?	No ▾

Incorrect  
Format



New User Reports Capability

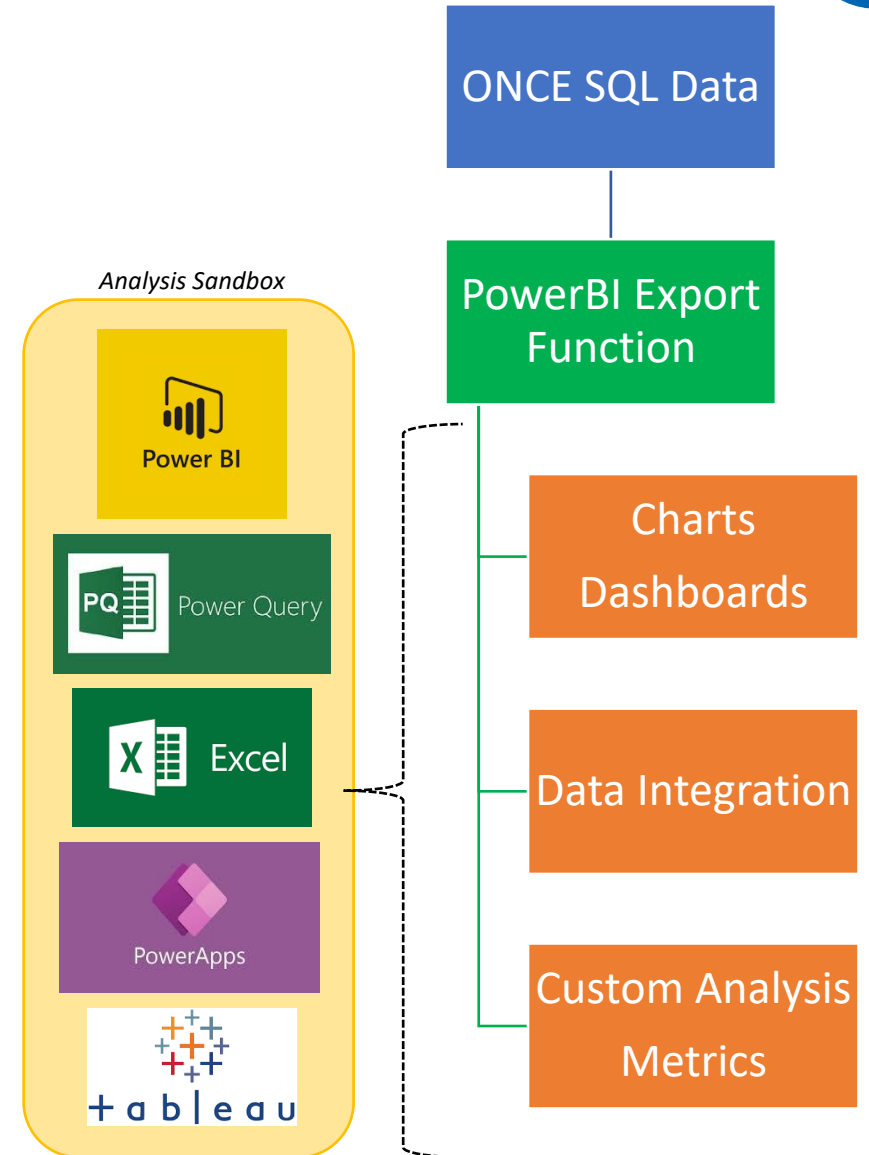
# PowerBI Export Format



# PowerBI Export Capability



- ONCE has added a specific export for MS PowerBI
  - Available on the User Reports menu item
  - OCFO is widely using PowerBI
  - NASA is deploying PowerBI Agency-wide
- Export is ready-to-go for PowerBI import
  - Columns, headers, names, data format, data types, units, individual row records, etc.
- User selects dataset and data to export
  - Excel file is created by ONCE
- User imports data into PowerBI
  - Build charts and dashboards
  - Conduct analysis
  - Create custom metrics
  - Perform data integration
- User can update dataset quickly and easily



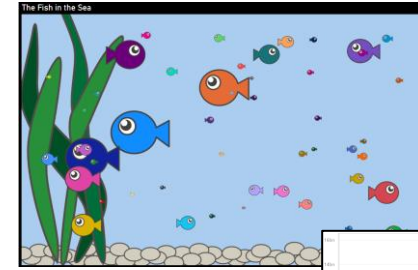
# PowerBI Export Example



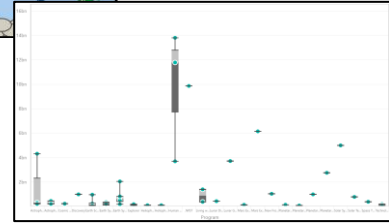
Select "Export PowerBI Format"

2

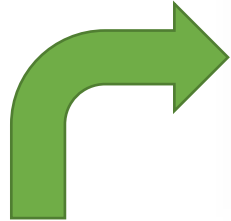
ONCE builds custom Excel file for PowerBI



User can build variety of charts/dashboards



User imports into PowerBI and conducts analysis, builds charts/dashboards, etc.



4

ONCE User Reports Menu Item to Select Data for Export

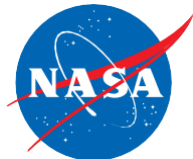
1



ONCE MODEL HOSTING

# Container Capabilities





# Model Portal Updates and Containers

• ONCE offers several avenues for model distribution and hosting:

1. ONCE Model Portal

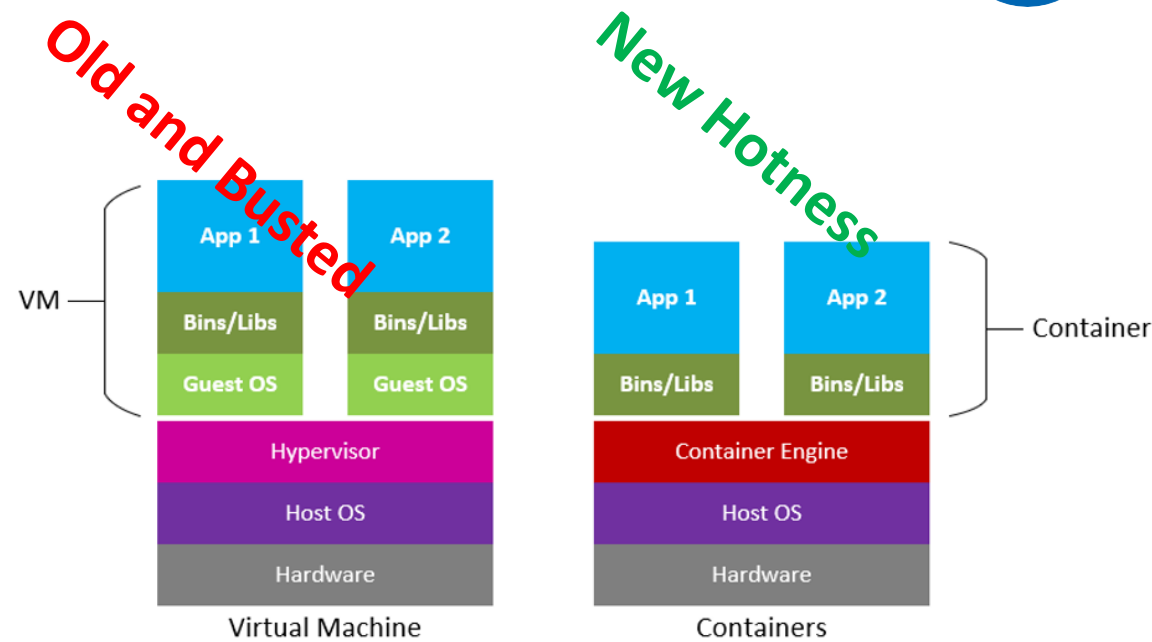
- 9+1 models, More than 2,300 unique model downloads in the last 8 years
- SEER by Galorath recently added (Instructions & License only)
- Requires: Electronic Files and Licensing Information

2. Online Model Hosting

- ONSET (Online NASA Software Estimating Tools) w/ASCoT & COMPACT
- Requires: Compatible Deployment Package (see ONCE Team for details)

3. Container Hosting

- ONCE is hosted on the AWS NASA HQ Managed Cloud Environment (MCE)
  - ONCE's Elastic Container Service (ECS) Fargate instance provides ability to host containers
  - Containers provide a standard way to host software products independent of their operating system
    - Allows products developed in different environments to be hosted within one URL
    - Containers can be operated without having to directly manage and maintain virtual machines
- Requires: Container(s) (see ONCE Team for details)



• Contact us to host and share your models: [james.k.johnson@nasa.gov](mailto:james.k.johnson@nasa.gov)



# Container Environment & Capabilities

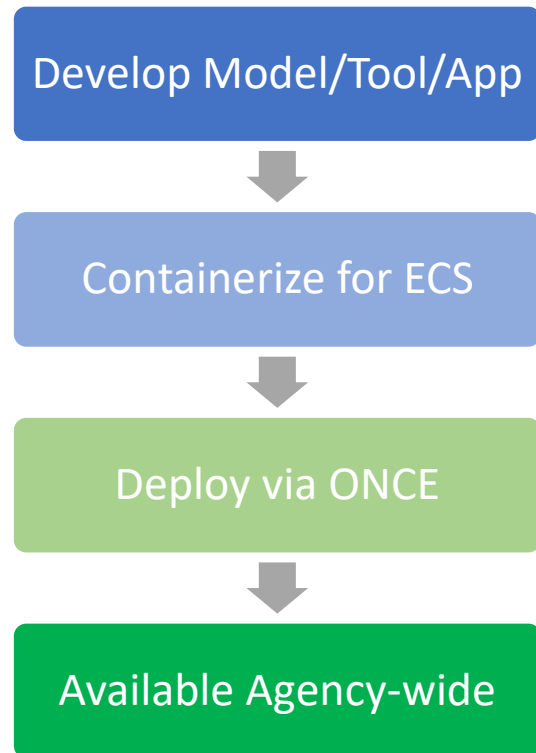


- **Container Environment:**

- Amazon Web Services Elastic Container System ([AWS ECS](#))
  - Similar to Docker and Kubernetes

- **Capabilities:**

- Host an online model/tool/app from other org's, Center, Partner, etc.
  - Available inside the NASA firewall
- Easy and fast updates via AWS Command Line update service
- Develop locally (incl OSS) and deploy independently to Agency-wide
- Deploy inside NASA firewall *AND* internally at your organization
- Full integration with NASA LaunchPad/PIV for Authentication
- Full integration with NASA IdMax/NAMS for User Access Management
- [Elastic Load Balancing](#) and [Relational Database Service](#)
- Integration with NASA GitHub for code repository
- Security and Management by NASA CIO
- Tracking, Reporting, Notifications, Configuration Management
- Easy to scale processing, memory, and storage resources
- **Host a model/tool/app big or small!**

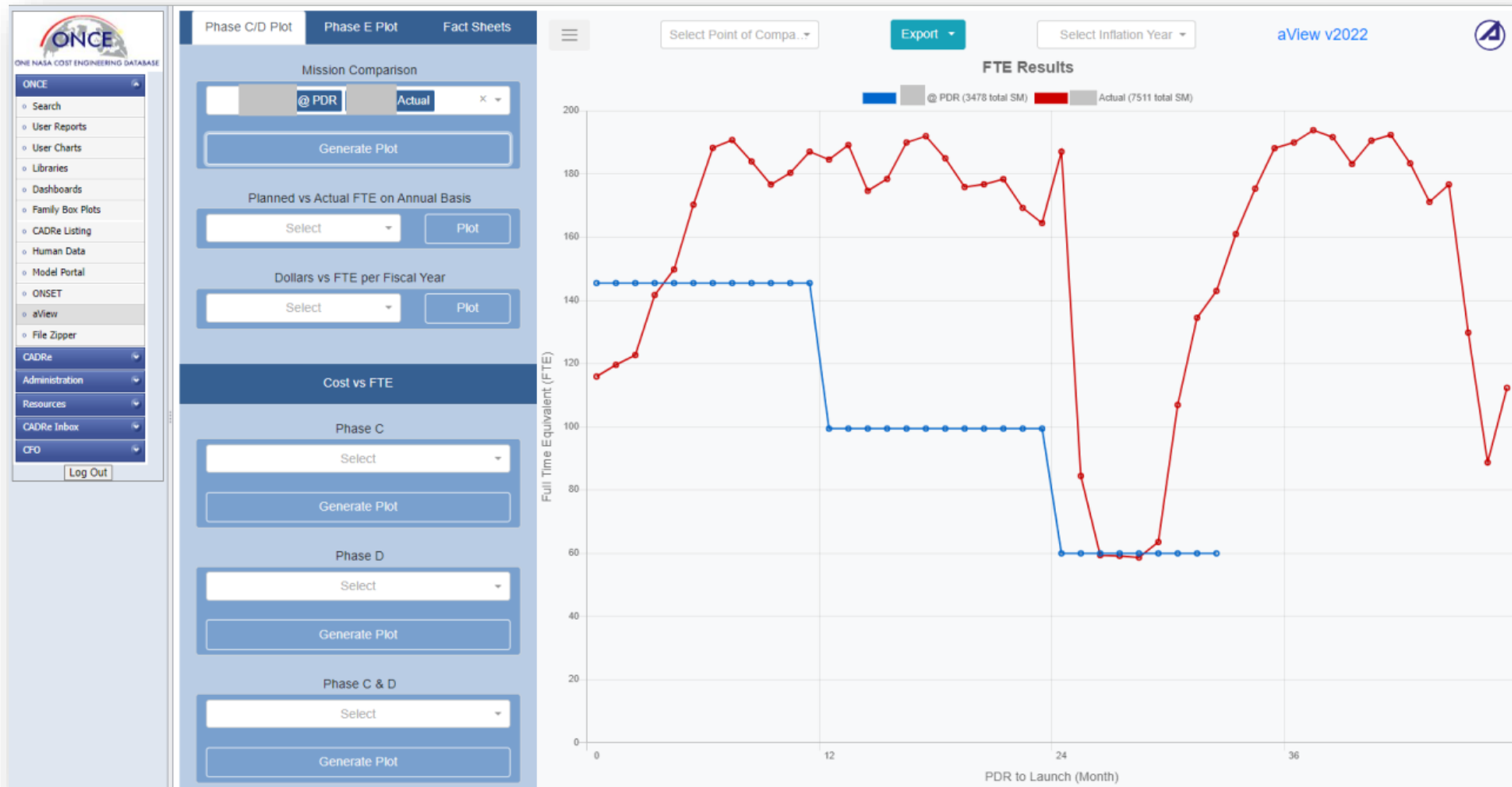


<https://developer.ibm.com/articles/true-benefits-of-moving-to-containers-1/>

## Containers on ONCE: aView Example



aView/App  
Menu Item



- Container hosting capability is fully integrated with ONCE
- Shoutout to Aerospace Corporation & MSFC Planetary Missions Program Office



# Container/Application Requirements, Docs, & Templates



## • Container Image Requirements:

- Model/Tool Developers final delivery is an image file (Not source code)
- Complete and static with a [full snapshot](#) of everything required to function
  - Libraries, dependencies, critical data, etc.
- Run only a single application process

## • Documentation:

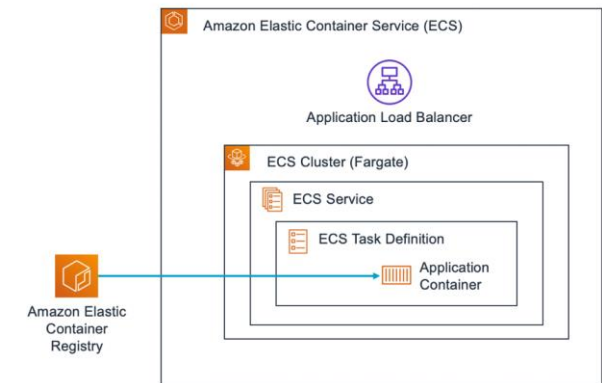
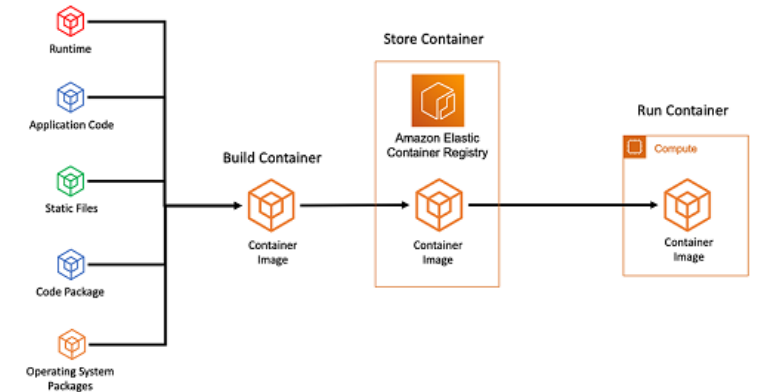
- Must provide documentation on design architecture (diagram, drawing, etc.)
- All application dependencies must be documented (name, list, etc.)
- Developers must maintain their code within a NASA approved Github repository
  - You can use your own repo but must transfer to NASA Git for deployment
- Unique tag for each build using Git

## • Templates:

- Developers must follow the NASA “pipeline template” ([CloudFormation](#)) from AWS
  - Provided to all developers free-of-charge, enables features such as logging, load balance, etc.

## • Authentication:

- Developers should remove any built-in authentication or user access management
- Containers must utilize NASA LaunchPad SAML2 SSO
  - Detailed information provided to all developers





SECURITY AND DATA PROTECTION

# ONCE Access Information



## Allowable Users/User Responsibilities

- **Allowable Users:**

- NASA Civil Servants
- NASA Contractor with active contract and NASA PIV badge
- Other US Government Civil Servant with OCFO SID approval (requires documented agreement)
- Other US Government Contractor with OCFO SID approval (requires documented agreement)

- **Unallowable Users:**

- Academic/University Student (includes interns)
- Foreign Nationals
- Spacecraft Prime Contractors (exception via NASA Cost IPT Vendor Specific Data Package)
- Instrument Prime Contractors (exception via NASA Cost IPT Vendor Specific Data Package)

- **User Responsibilities:**

- All users must have acceptable justification for access to ONCE
- Users accounts must be kept current
  - Periodic review of user accounts is required per NASA IT policy
- Users can be subject to investigation, bans, disciplinary action, and/or criminal prosecution
  - US Federal Government Information System located behind the firewall with full monitoring and tracking
- All users agree to all conditions on the ONCE NAMS request form and each login via Splash Screen



## ONCE Access: Do's and Don'ts



- ✓ Do request a walkthrough of ONCE
- ✓ Do visit the public website on ONCE for more information and how-to access:
  - ✓ [https://www.nasa.gov/offices/ocfo/functions/models\\_tools/CADRe\\_ONCE.html](https://www.nasa.gov/offices/ocfo/functions/models_tools/CADRe_ONCE.html)
- ✓ Do contact us: [hq-oncesupport@mail.nasa.gov](mailto:hq-oncesupport@mail.nasa.gov)
  - ✓ ONCE Access
  - ✓ CADRe data inquiries
  - ✓ Data discrepancies
  - ✓ Security concerns
  - ✓ Other
- ✓ Do follow the [CUI markings](#) and NASA best practices for data security
- ✓ Do follow the [NASA STI](#) process for publishing and presenting
- ✓ Do follow the NASA [Technology Transfer Program](#) processes (e-NTR/SBIR/STTR/etc.)



- ✗ Do not access ONCE or ONCE data from another user's account
- ✗ Do not share ONCE data
  - ✗ Do not include historical data from ONCE in public presentations
  - ✗ Do not assume audiences or other organizations understand and/or are compliant with NASA policies
- ✗ Do not distribute or share models or tools with unauthorized users
- ✗ Do not use ONCE data for any other purpose than what is on contract with NASA
- ✗ Do not sell data from ONCE (incl: trade, lease, rent, or other)
- ✗ Do not use the data from ONCE in models or tools for sale without prior explicit approval from NASA
- ✗ Do not put ONCE data into personal or other unapproved commercial cloud storage services (Google, Dropbox, etc.)
- ✗ Do not keep ONCE data on your personal computer, and/or computers or data storage systems that are not compliant with NASA data protection policies



## Support Updates

- **New ONCE Support Email Address:** [hq-oncesupport@mail.nasa.gov](mailto:hq-oncesupport@mail.nasa.gov)
  - Help Desk: Questions, issues, requests, walk-throughs, technical support
  - Model Portal Updates & other ONCE communications from this address
  - Available in the NASA Global Address Book
- **Outage Notifications**
  - Automatic notifications in case of an outage
  - Support and contact information displayed for users



**We'll be back soon!**

ONCE is temporarily down due to maintenance or network issues. We have been notified of this issue. Please check back later.

— The ONCE Team

Questions or Comments?  
[Email Us!](mailto:hq-oncesupport@mail.nasa.gov)  
Phone: 843-360-9394

*You should never see this, but if you do, we will know about it automatically!*





## Conclusion



- **ONCE is continuing to expand and provide new capabilities for users**
  - PowerBI export format enables many new capabilities & aligns w/Agency direction
  - KDP File Library expansion and examples increase knowledge & improves process
- **The team is prioritizing improvements that will increase data quality**
  - New approach to direct-entry of CADRe data is a significant improvement
- **ONCE offers the community a variety of methods to host models and tools**
  - Model Portal: Electronic files and license information
  - Container(s) via Amazon ECS with many advanced benefits
- **Users are reminded to abide by terms and conditions, to protect the data, and only use it for NASA work**
  - All of ONCE is now marked Controlled Unclassified Information (CUI)
  - Contact HQ OCFO SID with questions to avoid potential issues
- **Reminder:**
  - ONCE Virtual Demo / Training via Teams on 7 June at 1pm Eastern



### Presentations:

Joe Mrozinski (NICM v10)  
 Eric Plumer (CADRe)  
 Melissa Hooke (COMPACT & Bayesian RoT)  
 Andy Prince (Complexity)  
 Justin Hornback (Canceling Projects)  
 Victoria Nilsen (Correlation of Residuals)  
 Drexler & Co. (JCL for Gateway)  
 Alford & Co. (JCL for HLS)  
 Marc Hayhurst (MOCET)  
 Sarah Lang & Justin McNeill (aView)  
 Rachel Sholder & Kathy Kha (Growth)  
 Jon Fleming & Kristen Kherer (EVM)

### Shout-Outs:

Margaret Vo Schaus, NASA CFO  
 Craig McArthur, SID Director  
[Robin Smith, Symposium Coordinator](#)  
 Steve Shinn, DCFO  
 Doug Comstock, DCFO  
 Dave Mitchell, CPMO  
 Charles Hunt, SID APARC

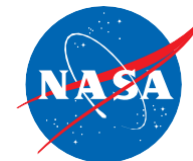


ADDITIONAL INFORMATION

# BACKUP



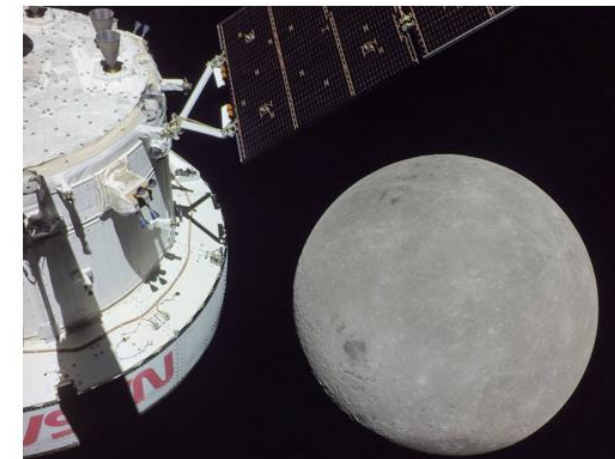
## Additional ONCE Resources



- ONCE Support Email: [hq-oncesupport@mail.nasa.gov](mailto:hq-oncesupport@mail.nasa.gov)
- ONCE CADRe website on public NASA.gov: [https://www.nasa.gov/offices/ocfo/functions/models\\_tools/CADRe\\_ONCE.html](https://www.nasa.gov/offices/ocfo/functions/models_tools/CADRe_ONCE.html)
- ONCE website (NASA network only): <https://oncedata.hq.nasa.gov>
- How to request access: [https://www.nasa.gov/sites/default/files/atoms/files/once\\_user\\_access\\_request\\_form\\_tagged.pdf](https://www.nasa.gov/sites/default/files/atoms/files/once_user_access_request_form_tagged.pdf)
- HQ ONCE POC: James Johnson, [james.k.johnson@nasa.gov](mailto:james.k.johnson@nasa.gov)
- SAIC ONCE Team: Julie McAfee, [julie.e.mcafee@nasa.gov](mailto:julie.e.mcafee@nasa.gov), Mike Blandford, [michael.blandford@nasa.gov](mailto:michael.blandford@nasa.gov)
- HQ CADRe POC: Eric Plumer, [eric.plumer-1@nasa.gov](mailto:eric.plumer-1@nasa.gov)
- 2022 NCSS Presentation: [https://www.nasa.gov/sites/default/files/atoms/files/45\\_once\\_2022\\_ncss\\_main\\_presentation\\_vs\\_submit.pdf](https://www.nasa.gov/sites/default/files/atoms/files/45_once_2022_ncss_main_presentation_vs_submit.pdf)
- 2019 NCSS Presentation: [https://www.nasa.gov/sites/default/files/atoms/files/18\\_once\\_2019\\_ncss\\_main\\_presentation\\_vs\\_submit\\_tagged.pdf](https://www.nasa.gov/sites/default/files/atoms/files/18_once_2019_ncss_main_presentation_vs_submit_tagged.pdf)



Last images of JWST



Orion with Moon



TEMPO



JWST image "Pillars of Creation"



# Resources on Containers, ECS, & Online Applications (Dash/Plotly)



- Develop data visualization interfaces in Python with Dash: <https://realpython.com/python-dash/>
- Video Introduction to Dash Plotly: <https://www.youtube.com/watch?v=hSPmj7mK6ng>
- Plotly Dash: <https://plotly.com/dash/>
- Dash for Beginners: <https://towardsdatascience.com/dash-for-beginners-create-interactive-python-dashboards-338bfc6ffa4>
- **Amazon ECS Containers Best Practices:** <https://docs.aws.amazon.com/AmazonECS/latest/bestpracticesguide/application.html>
- Dockerize/Containerize a Dash App: <https://towardsdatascience.com/dockerize-your-dash-app-1e155dd1cea3>
- Dockerize/Containerize a Python Dash App: <https://awstip.com/docker-ize-a-python-dash-application-and-deploy-it-to-cloud-717a7c25de5b>



*How I imagine the AWS ECS*



*This is why we have backups*



*The description in the plan*



*That AWS Engineer with the right privileges*



*What the budget can afford*



*Available documentation*

## ONCE & PowerBI Future



- Many potential futures...options balanced against constraints and resources combined with timing and enterprise actions...
- **Near-Term Goal:** Enable high-quality and repeatable data export in the correct format for all available datasets on ONCE
  - ONCE will be enabling Users to build their own PowerBI charts/dashboards
  - New Enhancement: Notify Users to re-run export when new Project or CADRe is added
  - New Enhancement: Save/Copy User Report settings for re-run export
- **Long-Term Goal:** Align ONCE with NASA enterprise and OCFO to take full advantage of automation and integration with PowerBI
  - This may include direct connection if/when made available by NASA
  - Users could be capable of building custom queries
  - Publishing online and/or via Sharepoint, MS Teams, etc.
  - ONCE could build and maintain a curated set of charts/dashboards
  - ONCE could host community-created charts/dashboards
  - Analysts could publish ONCE data with presentations online
  - Containerized Apps could be linked to the data with automation
  - Security policies can be enforced in the various “sandboxes”





SECURITY AND DATA PROTECTION


# Controlled Unclassified Information (CUI)




# Terms and Conditions, NAMS, Splash Screen, and CUI



- **NASA Use Only**
  - Agree to use the data within ONCE for the purpose of performing work for NASA and that **Contractors will only use the data when performing work on contract for NASA.**
- **Eligible Users**
  - Agree they are a NASA employee, or an employee of an approved contractor company.
  - Agree they are not a university student, nor employee of an aerospace hardware prime contractor company.
- **Accounts and Monitoring**
  - Agree that by accessing ONCE you are consenting to monitoring and recording with **no expectation of privacy.**
  - Agree to abide by the Security of Information Technology Procedures and Guidelines (NASA NPG 810.1)
  - Understand that **misuse of assigned accounts, sharing accounts, or accessing the accounts of others is not permitted.**
- **Controlled Technical Data**
  - Agree not to disseminate or share controlled technical data in a manner that would violate applicable U.S. Export Control laws and regulations
  - Agree that they have not been disbarred, suspended, or otherwise deemed ineligible to perform work on U.S. Government contracts, or have previously violated U.S. Export Control laws
  - **Acknowledge their individual responsibilities** under applicable U.S. Export Control laws and regulations - including the obligation, under certain circumstances, to obtain an export license from the U.S. Government prior to the release of controlled technical data within the United States.
- **Model Portal**
  - Agree to **follow the applicable license agreements** for software models and tools that are available for download on the ONCE Model Portal.
  - Agree to **not share the software models and tools** outside of the ONCE Model Portal or in violation of the posted guidelines or license restrictions.
- **OCFO Data**
  - Agree to only access OCFO data with a legitimate business justification and prior approval from a HQ OCFO SID supervisor.
- **Splash Screen**
  - User reiterates their agreement to all responsibilities every time ONCE is accessed and the splash screen terms are accepted.

  
Office of the  
Chief Financial Officer

  
**ONCE**

**By clicking "OK" you agree:**

- The use of data within the ONCE database is for the purpose of performing a contract with NASA.
- The misuse of data may constitute grounds for termination of access privileges, administrative action, and/or civil or criminal prosecution.
- To abide by proprietary software regulations and the Security of Information Technology Procedures and Guidelines (NPG 810.1).
- To acknowledge your individual responsibilities under applicable U.S. Export Control laws and regulations - including the obligation, under certain circumstances, to obtain an export license from the U.S. Government prior to the release of controlled technical data within the United States.
- To not share the software models and tools outside of the ONCE Model Portal or in violation of the posted guidelines or license restrictions.
- You are accessing a U.S. Government information system that may contain CUI.

**ONCE Support email:** [hq-oncesupport@mail.nasa.gov](mailto:hq-oncesupport@mail.nasa.gov)  
**ONCE Support phone:** 843-360-9394

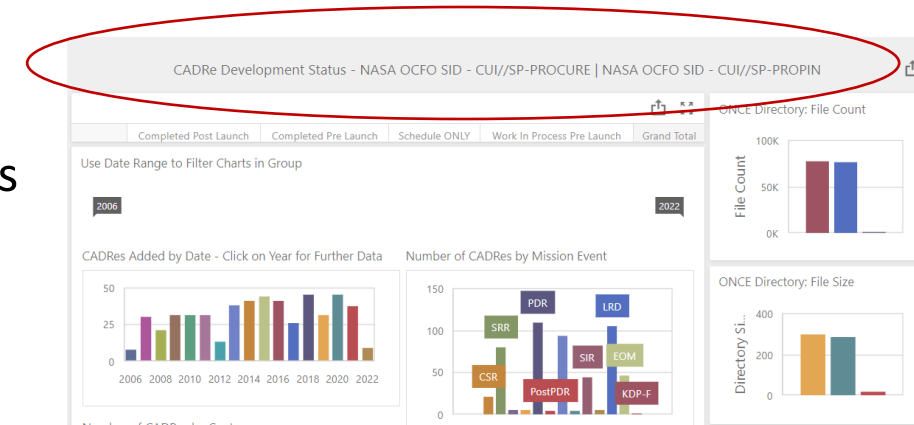
ONCE Data, Dashboards, and Downloads are marked CUI!



## Integrating CUI into CADRe and ONCE



- Requirement to modify all systems to the standard identified in the [32 CFR 2002](#) by 31 December 2021
- ONCE Team spent from Fall 2021 to Early 2022 on planning and updates
  - Decision made to use [CUI//SP-PROCURE](#) and [CUI//SP-PROPIN](#) for all ONCE information
- Historical CADRe documents updated to include the CUI cover page and headers
  - Purple cover page added to all CADRe files
  - Over 1,500 documents (Part A/B/C)
  - Change-logs incorporate updates and document any future edits
- CADRe templates now include the appropriate CUI markings
  - Available for CADRe Developers and others
- ONCE now has required CUI markings in all applicable areas:
  - All dashboards and their exports include the applicable CUI cover page and headers
  - All exported files now include the applicable CUI cover page
  - All exported data (e.g. User Report data) include the applicable CUI cover page and headers



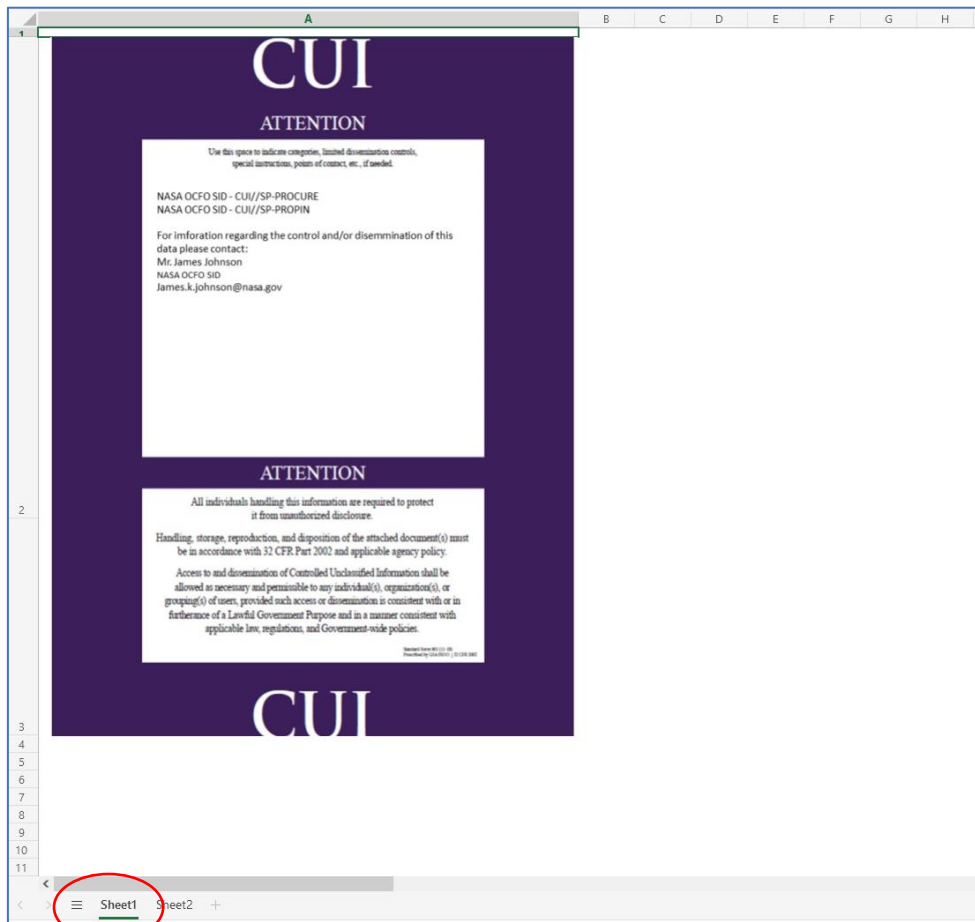




# ONCE Export Example



CUI cover page added to first tab in Excel documents



NASA OCFO SID - CUI//SP-PROCURE | NASA OCFO SID - CUI//SP-PROPIN

			Mass CIE (kg)	Mass CIE + Cont (kg)
ADM	SRP	ADM - SRP		
		Payload(s)		
		Solar Occultation For Ice Experiment (SOIE)		
		Instrument Payload Interface (SPI)		
PDR	ADM - PDR	The Cloud Imaging and Particle Size (CIPS)		
		Cosmic Dust Experiment (CDE)		
		Payload(s)		
		Solar Occultation For Ice Experiment (SOIE)		
CDR	ADM - CDR	The Cloud Imaging and Particle Size (CIPS)		
		Cosmic Dust Experiment (CDE)		
		Instrument Payload Interface (SPI)		
		Payload(s)		
LRD	ADM - LRD	Solar Occultation For Ice Experiment (SOIE)		
		The Cloud Imaging and Particle Size (CIPS)		
		Cosmic Dust Experiment (CDE)		
		Payload(s)		

NASA OCFO SID - CUI//SP-PROCURE | NASA OCFO SID - CUI//SP-PROPIN

Page 1 of 2

CUI headers and footers integrated into exported data