



National Aeronautics and
Space Administration



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NASA Cost & Schedule Symposium – EVM Year in Review

Jon Fleming, NASA EVM Program Executive | 26 April 2022

Discussion Topics

- EVM Year in Review Summary
- NPR 7120.5F Version - EVM Language Changes
- Integrated Baseline Reviews (IBRs)
- NASA-led EVMS Compliance Review Update
- Major Accomplishment
- NASA EVM Website

EVM Year in Review Summary

- (12) quarterly, Agency EVMS Surveillance Reviews on In-house projects
- (18) quarterly, NASA-led EVMS Surveillance Reviews at APL, JPL, and SwRI
- (~60) quarterly, DCMA-led EVMS Surveillance Reviews on approximately 15 contracts
- (3) EVMS Compliance Reviews on NASA Primes, and began (1) NASA-led EVMS Compliance Review on UC-LASP
- (9) Integrated Baseline Reviews
 - IBR Findings Database, Initial study Sep 2020 for SID Insights publication. Now well over 400+ Findings, from over 30+ IBRs, spanning 2 decades
- (15) EVM/IBR training sessions
- (2) Agency PP&C Steering Group meetings
- (4) EVM Working Group meetings & (1) EVM Steering Committee meeting

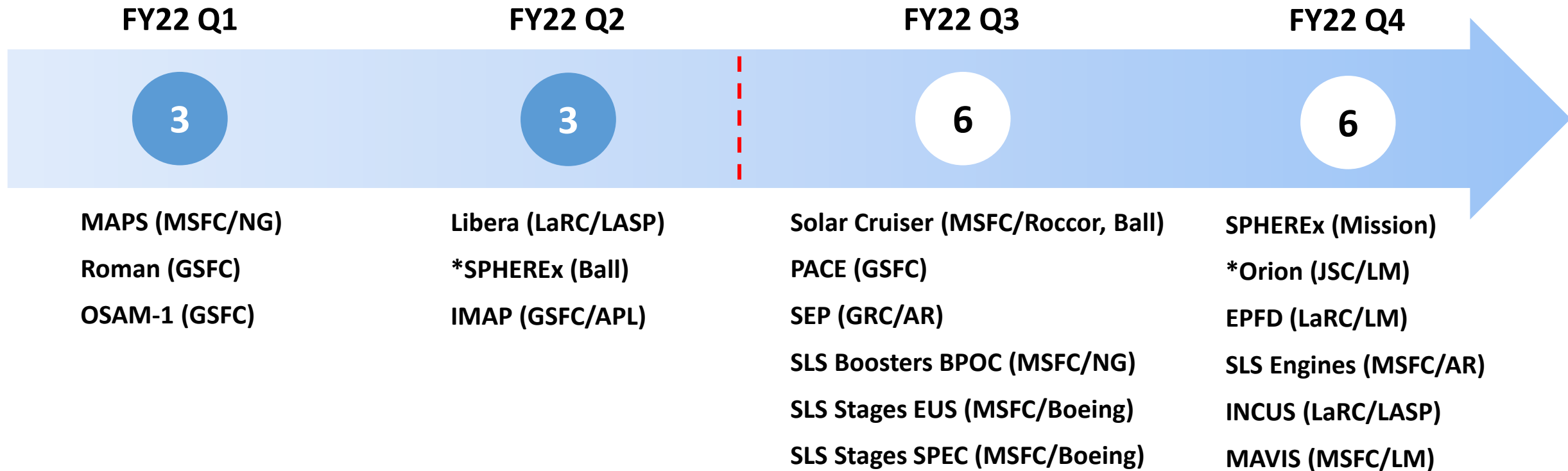
EVM Year in Review Summary

- Closing the 2012 GAO Audit Recommendation by implementing a formal EVMS Surveillance program and including EVMS Surveillance requirements in NPR 7120.5F
- Completed the 2019 GAO Corrective Action Plan (CAP) Enhanced EVM Implementation Initiatives for the NASA AA (GAO High Risk List)
- College of Performance Management (CPM) Champions Series Virtual Workshop & National Defense Industrial Association (NDIA) Winter 2022 Integrated Program Management Division (IPMD) Virtual Meeting
- NASA EVM Tools Team is continuing improving the system administration/database management of Cobra and Empower software

NPR 7120.5F – EVM Language Changes

- Pulling EVM requirements to the left in the project life cycle
- Replacing the Contract Performance Report (CPR) with the Integrated Program management Report (IPMR)
- Continue to require utilization of NASA's EVM system (NASA EVM Capability)
- An EVM System (EVMS) is not required on non-developmental work, steady state operations, or basic and applied research
- Added EVMS Surveillance requirement

FY22 Integrated Baseline Reviews (IBRs)



NASA-led EVMS Compliance Review Update

University of Colorado-Laboratory for Atmospheric and Space Physics (UC-LASP)
– Boulder, CO

- Libera Project
- Diverse team of experts (NASA EVM team & Focal Points, DOE, MDA, and DCMA)
- LASP EVM System Description and other supporting documentation review
- Team Training, Apr 15
- Data Drops (Apr, May, Jun)
- Onsite/virtual EVMS CR, Jul 18-29

NASA-led EVMS Compliance Review Update (continued)

- Libera Project

- Science Mission Directorate's, Earth Science Division, Earth System Science Pathfinder Program Office (LaRC) manages Earth Venture Missions.
- Libera mission, led by LASP is NASA's first Earth Venture Continuity (EVC) selection and will maintain the decades long climate data record from NASA's suite of Clouds and the Earth's Radiant Energy System (CERES) instruments.
- The new space-based instrument is an innovative and cost-effective approach to maintaining the 40-year data record of the balance between the solar radiation entering Earth's atmosphere and the amount absorbed, reflected, and emitted. This radiation balance is a key factor in determining our climate: if Earth absorbs more heat than it emits, it warms up; if it emits more than it absorbs, it cools down.

lasp.colorado.edu

nasa.gov

Major EVM Accomplishment


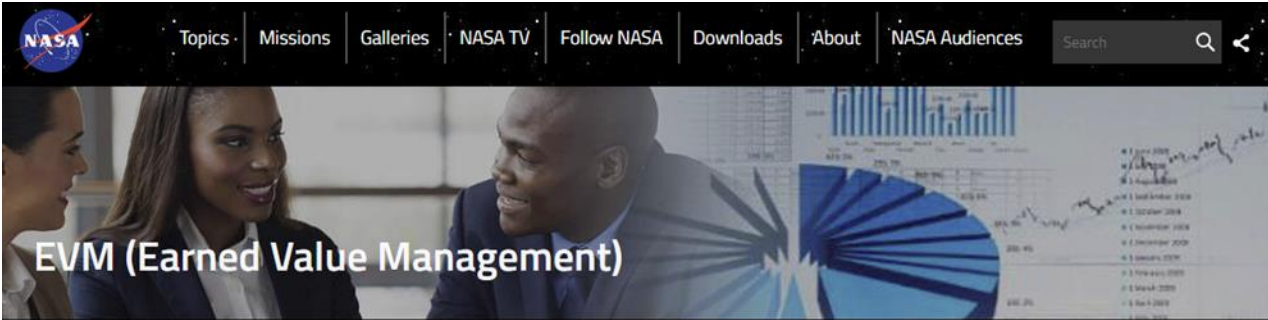
GAO to close the longstanding high priority recommendation on EVM implementation

“To improve NASA management and oversight of its spaceflight projects, and to improve the reliability of project EVM data, **the NASA Administrator should direct the appropriate offices to modify the NASA Procedural Requirements (NPR) 7120.5 to require projects to implement a formal surveillance program** that: (1) Ensures anomalies in contractor-delivered and in-house monthly earned value management reports are identified and explained, and report periodically to the center and mission directorate's leadership on relevant trends in the number of unexplained anomalies...”

<https://www.gao.gov/products/gao-13-22>

Where to find more information on EVM...

nasa.gov/evm



EVM Overview

EVM is an integrated management control system for assessing, understanding and quantifying what a contractor or field activity is achieving with program dollars.

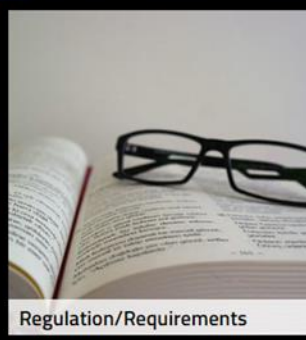
- Integrates technical, cost, schedule, with risk management
- Allows objective assessment and quantification of current project performance
- Helps predict future performance based on trends.

EVM provides project management with objective, accurate and timely data for effective decision making.

[Click here to read more about EVM](#)



Tutorial



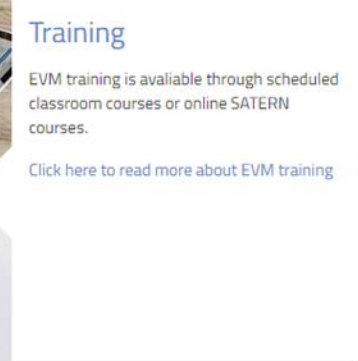
Regulation/Requirements



Training

EVM training is available through scheduled classroom courses or online SATERN courses.

[Click here to read more about EVM training](#)



Reports



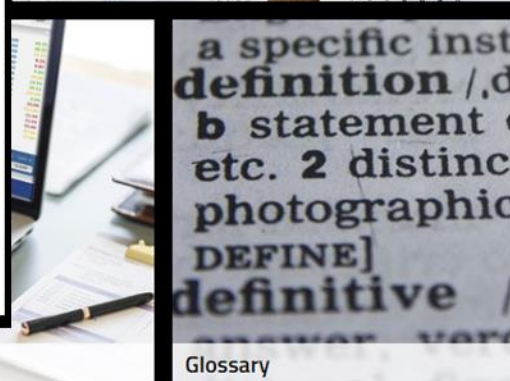
Handbooks

Looking for EVM Implementation Handbooks? Look no further - we have all your EVM Handbooks in one place.

[Click here for EVM Implementation Handbooks](#)



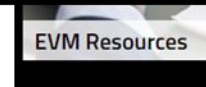
Glossary



Acronyms



EVM Working Group



EVM Resources

Who to Contact

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