



2024 NSF RESEARCH INFRASTRUCTURE
WORKSHOP

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NSF OPAL RI-1: Mid-scale RI Panel

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Image Credit: Vera C. Rubin Observatory, CTIO/NOIRLab/DOE/NSF/AURA T.A. R, Richard F. Caris Mirror Lab/Gabrielle Perez



NSF OPAL PEP development and lessons learned

PEP Development Approach

- The NSF OPAL Project Execution Plan was built on the previous University of Rochester experience with the design and build of similar scale laser facilities

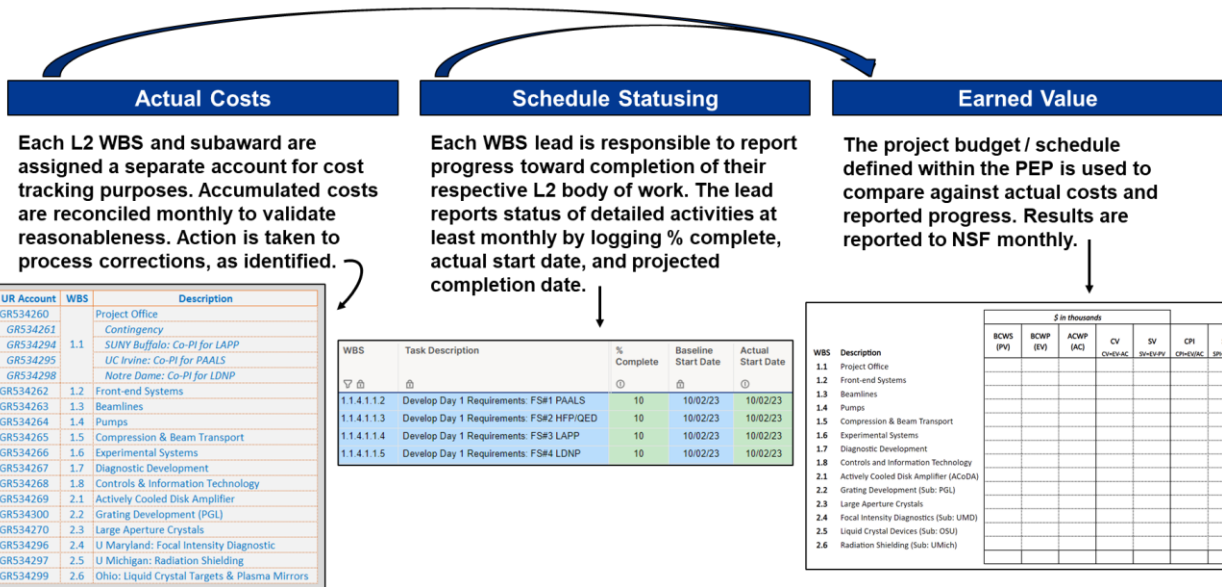
Lessons Learned/Advice

- Utilize NSF resources
 - NSF has an excellent set of webinars walking you through some of the key processes
 - The Proposal & Award Policies & Procedures Guide (PAPPG) and Research Infrastructure Guide (RIG) are your friend
- Keep the scope of your project in mind
 - NSF OPAL is an RI-1 design project with the goal of receiving a RI-2 Construction project; do not include details that will be relevant to the constructing effort
- Less is more; do not put in a lot of extraneous scientific detail
- Remember that the PEP is a living document
 - It is okay to change/improve your approaches



The NSF OPAL Project is using a scaled and scalable approach to Earned Value Metrics

Earned Value Metrics – methodology



Lessons Learned

- Make sure the first three to six months of your schedule is detailed and reasonably time-cost loaded
- Navigating multiple different University invoicing systems will always be a challenge
- Earned Value metrics will be 'bad' for the first few months; it is important to review the variance reports to ensure that the variances are from expected sources (i.e. invoice lags)

