

2016 NSF Large Facilities Workshop



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Washington, DC

2016 NSF Large Facilities Workshop

Purpose & Vision

- Two-Way & Open Exchange
 - ✓ Formal & Informal
 - ✓ Transparent
- Best-Practices & Lessons-Learned
- New Policy
- Identify & Solve Challenges

2016 NSF Large Facilities Workshop

Participants

- Facilities Representatives: ~50%
- NSF: ~ 30%
- Other: ~20%

	Facilities	NSF	Other Orgs/Agencies
Business Professionals	27	19	2
Project/Operations Managers, Program Officers	14	25	18
Executive	19		5
Scientists	9		6
Other	8	7	3
TOTAL	77	51	34

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NAPA Report

*“It is clear, that in the past, NSF has prioritized the innovative scientific aspects of large facility construction projects; the agency now needs to apply **equal emphasis on increased internal management of the business practices** critical to enhanced oversight and project success.”*

*NAPA Report
Executive Summary, Page 6
December 17, 2015*



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Breakouts

- Speaker, Lead & Scribe
- No formal sign-up (“first-come/first-serve”)
- Open dialog & exchange of ideas
- Summary Workshop Report

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Projects in the Design Stage

Regional Class Research Vessel (RCRV)

- Final Design Phase
- 2-Ship Build (\$255.5M TPC)
- FY17 Budget Request



Antarctic Infrastructure Modernization for Science (AIMS)

- Preliminary Design Phase
- Refining Project Scope and Schedule
- PDR - Fall 2016



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Projects in the Design Stage

Large Hadron Collider – High Luminosity Upgrades (LHC-HL)

- Conceptual Design Phase
- CMS and ATLAS Detectors (CERN)
- CDR – March 2016



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Projects in the Construction Stage

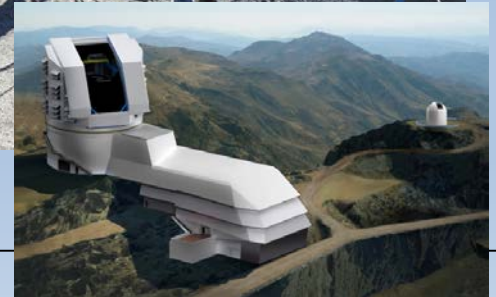
Daniel K. Inouye Solar Telescope (DKIST)

- ~80% complete
- Court decisions pending
- Risks being evaluated



Large Synoptic Survey Telescope (LSST)

- ~20% complete
- Partnership with DOE (Camera)
- Fully compliant with latest NSF oversight policies in LFM

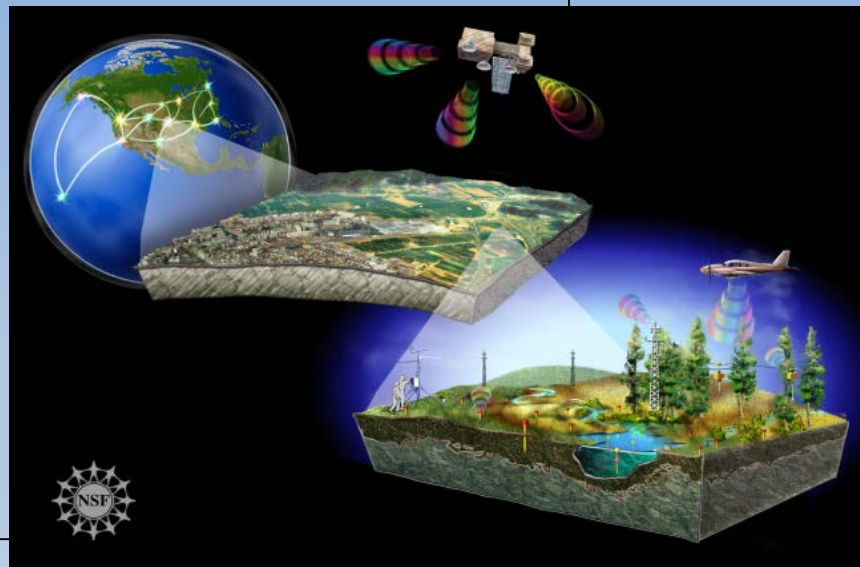


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Projects in the Construction Stage

National Environmental Observatory Network (NEON)

- ~75% Complete
- Transition to operations at many sites
- NSF “No Cost Overrun” Policy Implemented
- Management Transition > Battelle



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Projects Transitioned to Operations Stage

Alaska Region Research Vessel (ARRV; R/V *Sikuliaq*)

Advanced Laser Interferometer Gravitational-wave Observatory (AdvLIGO)

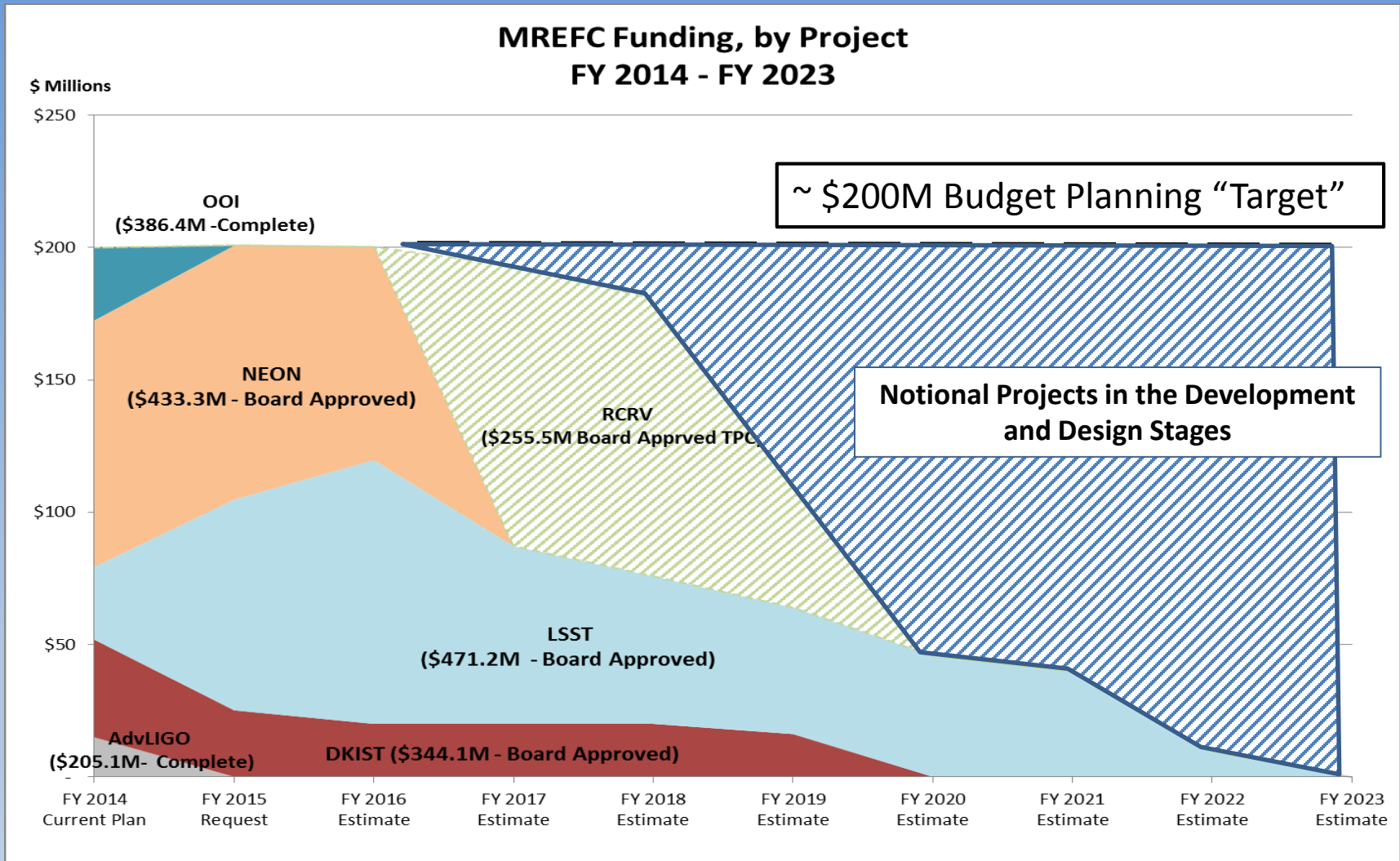


Ocean Observatory Initiative (OOI)



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MREFC Budget Profile



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2017 Host Volunteers

- UT Austin (NHERI-CI)
- Jefferson Lab (Newport News, Virginia)
- Gemini (Chile)
- LIGO (Livingston Observatory, Louisiana)