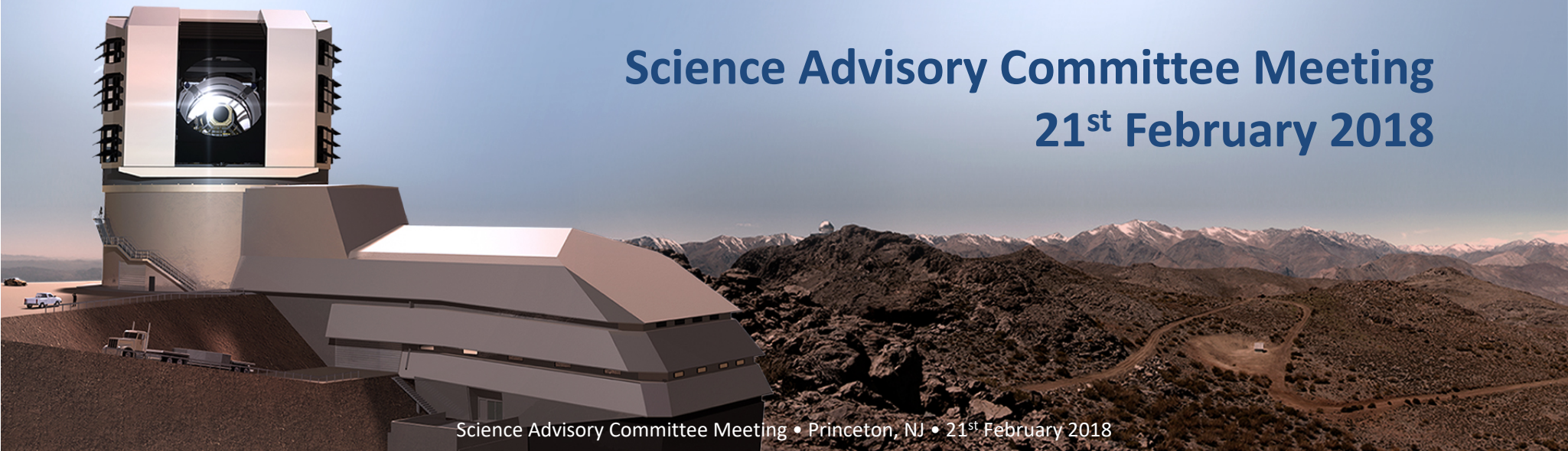




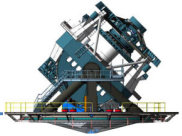
Framing Today's Meeting and LSST Operations Update

Beth Willman

Science Advisory Committee Meeting
21st February 2018



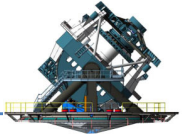
Science Advisory Committee Meeting • Princeton, NJ • 21st February 2018



Agenda



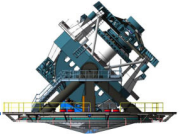
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- 9:00 - 9:30 am **SAC Meeting Framing and Operations Update** – Beth
 - 9:30 – 10:15 am **Director's Report** – Steve
 - 10:15 - 10:30 am Break
 - 10:30 am - 12:00 pm **LSST Community Communication** – Ranpal and Beth
 - 12:00 pm - 1:00 pm Lunch
 - 1:00 pm - 2:30 pm **Data Rights and Data Access policies** – Wil (remote) and Beth
 - 2:30 pm – 2:45 pm Break
 - 2:45 - 3:30 pm **Observing Strategy white papers** – Lynne and Tiago (remote)
 - 3:30 - 4:15 pm **Update on Event Broker Policy development** – Eric (remote)



Key Meeting Goals



- Receive feedback on our evolving approach to communicating with the science community. Get advice on possible complementary communication roles of LSST, LSST Corporation, and the NOAO Community Science and Data Center.
- Get input on science community perspectives on some Data Access topics, and on appropriate community representation in the process to answer Data Rights and Access questions.
- Receive feedback on (i) the steps we are taking to release the call for Observing Strategy white papers (including deciding the time at which the SAC will need to see the draft call, in time for iterations prior to the June 2018 release), and (ii) the steps we are taking to release a call for Event Broker development to the community.

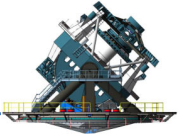


Responses to August 2017 Recommendations



We are enthusiastic about the plans to define liaisons from the Data Management group for each science collaboration. We recommend that the broader community, including international contributors, also have access to information about DM's activities.

We are working on an improved framework for communicating with scientists. We have also started discussions with Adam Bolton and Dara Norman (NOAO CSDC) on the related recommendation that resulted from their LSST Community Science Center Working Group (see our presentation later this morning). One next step is a meeting with NOAO CSDC and LSSTC representation, to help define our relative roles in communicating with the Science Community.



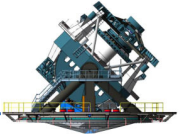
Responses to August 2017 Recommendations



We would like the EPO team to explore ways for the science collaborations to get involved in outreach activities now, even during construction. We would also like clarification on the ramp-up of EPO activities during commissioning: when in practice will the Project be actively doing outreach?

The EPO team is currently engaging science collaborations in the development of LSST's EPO materials. We are also developing a model for scientists who would like to contribute LSST-related Broader Impacts now. For example, we could make early versions of LSST EPO Jupyter Notebooks available to science community members in exchange for feedback on their usability, and contribution of code or extension activity ideas.

Once EPO activities and interfaces are developed, they will be tested and assessed via local Arizona classrooms and partnerships with groups serving individuals from traditionally underrepresented groups in STEM. This early outreach will begin in 2019, so that we can refine our program and create deliverables that are interesting, accessible, engaging, and relevant to as many people as possible. Late stages of commissioning will allow us to incorporate LSST data into our deliverables and encourage small numbers of users to test materials in their classrooms, effectively beginning the ramp-up of active outreach. Large-scale outreach with finished EPO products will begin in 2022.

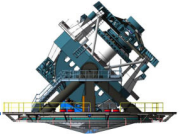


Responses to August 2017 Recommendations



- *The plans for giving guidelines for and selecting event brokers from the scientific community need to reflect the fact there is likely to be a continuum of needs: from community brokers designed to serve the world, to specialized filters aiming to do specific scientific projects. We recommend that the call for brokers reflect this continuum.*
- *We recommend that the project start a conversation with the Transients and Variable Stars science collaboration about use cases for brokers, to understand the extent to which the LSST simple broker, and a few general community brokers, will or will not satisfy the needs of the community.*
- *The SAC remains unclear on whether the outputs of brokers can, or should, be world-public. This needs to be clarified.*
- *The SAC looks forward to reviewing the document which will describe the requirements and review process for brokers.*

These will be addressed in the talks and discussion this afternoon.

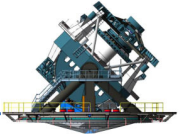


Responses to August 2017 Recommendations



The SAC looks forward to reviewing the call for white papers from the community for mini-surveys and deep drilling fields. We strongly recommend a single such call, and in the detailed notes below, make a series of recommendations about what that call should include.

This recommendation was accepted, with a plan for the White Paper call being reworked to accommodate a single call for white papers. See this afternoon's presentation and discussion.



Ongoing Pathway to Operations



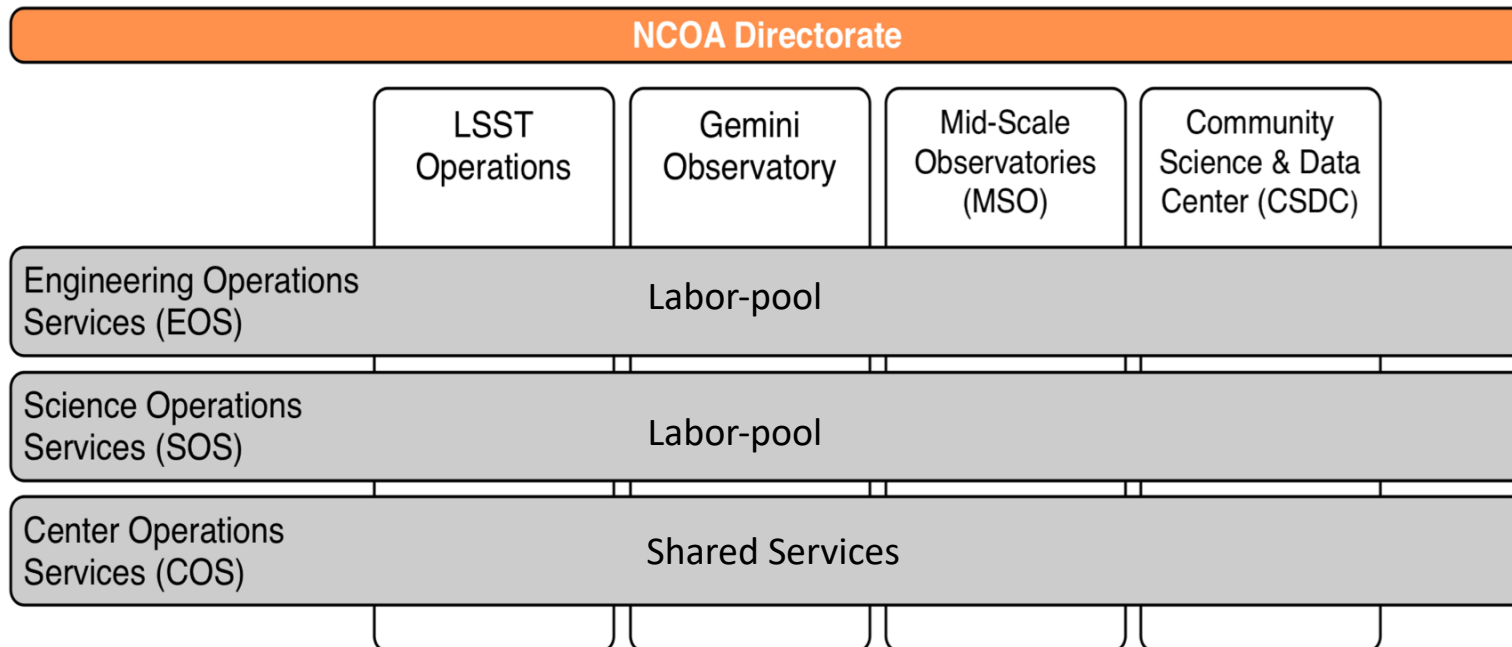
October 2017 – NCOA review, Washington D.C.

October 2017 – Director's review of Operations Proposal,
Fermilab

December 2017 – Dual-agency review of Operations Proposal,
Tucson, AZ



NCOA is on track to launch late this calendar year.





Summary Results From Proposal Review



Strengths

Appropriate and well-developed scope, resource loading,
Work Breakdown Structure

Areas to Watch

Transition planning, and the continuity of critical
personnel from construction

Review Panelists

Tom Barnes	U Texas
Tony <u>Travouillon</u>	Caltech
Larry <u>Denneau</u>	Hawaii
Alexei <u>Klimentov</u>	BNL
Frank <u>Wurthwein</u>	UCSD
Klaus <u>Honscheid</u>	OSU
David <u>Kieda</u>	Utah
Cathy Lavelle	BNL
Richard Simon	NRAO
Jack Salazar	LBNL
<u>Srini Rajagopalan</u>	BNL
Debbie Harris	FNAL
Dan Green	FNAL
Marge Bardeen	FNAL



Next Steps



- Respond to the report (final report not yet delivered), and develop higher fidelity plans for:
 - Milestones + metrics to track operations progress/success
 - Pre-Operations activities
 - Staffing transitions
 - Operations risk register
- Independent Cost Analysis to be implemented by the NSF
- Re-cost operations with the NCOA cost model (by March 30)
- Document data policies (e.g. 2-year public period, derived data products)
- Present progress on Operations Planning at the Summer 2018 Status Review.