Rubin Observatory Renaming LSST

Observatory: Vera C. Rubin Observatory

- Prime program: Legacy Survey of Space and Time (LSST)
- Telescope name: Simonyi Survey Telescope

1965 Georgetown Astronomy Department

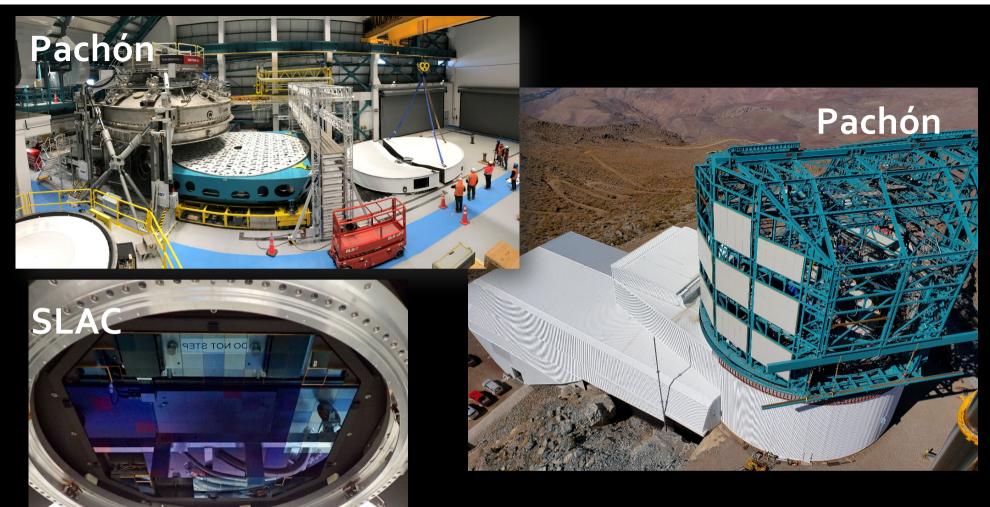






AAS 235 - VERA RUBIN OBSERVATORY OPEN HOUSE - 2020-01-06 - HONOLULU, HI





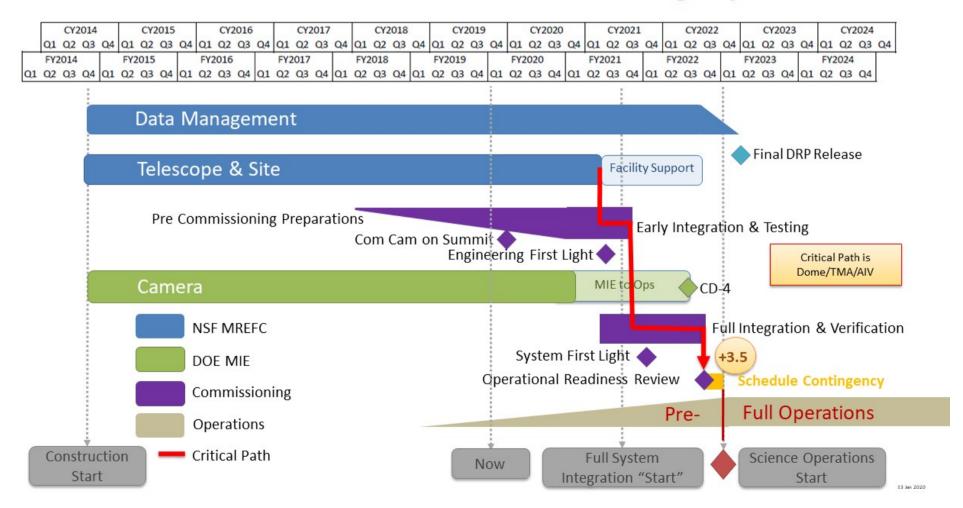
Pics from Steve Kahn's talk at AAS Hawaii, 6th Jan 2020



KLSST:UK Consortium

LSST Schedule

LSST Forecast Schedule – 3.5 Months Contingency



Commissioning and 1stYear data plans (latest from AAS Open house 6th Jan 2020)

- System first light : late 2021 (was October 2021) – commissioning time squeezed
- At best ~5 months on-sky data with LSSTCam and 3 months Science Validation Surveys

Survey start October 2022

Data Release 1 : based on 6 months data, takes 6 months to process. Release : Oct/Nov 2023

Commissioning and 1stYear data plans

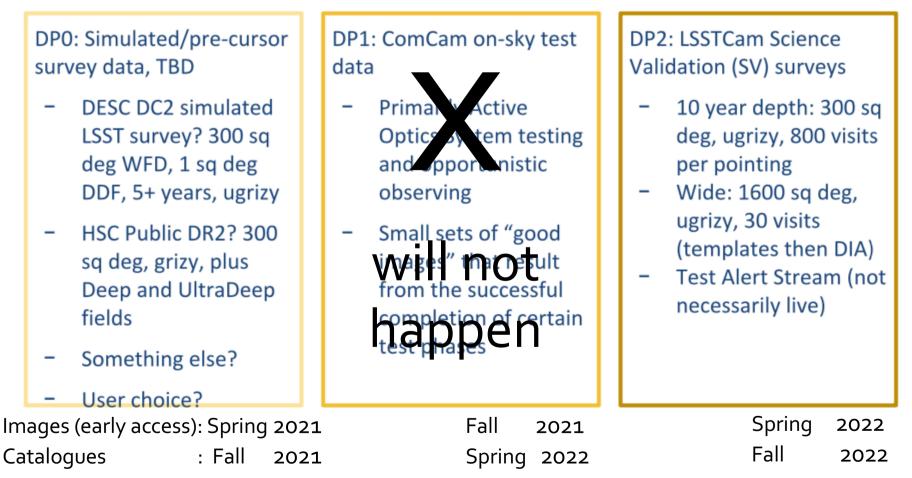
- After DR1 : can start "full fidelity" alert generation meaning, every image, difference and alerts
- Commissioning and LOY1 : starting a process to solicit feedback from Science Collaborations (presume SAC too)
 - Area vs Filter
 - Template building
 - What can be done during commissioning ?

"Data Previews"



DP Dataset Cheatsheet





From Phil Marshall : Project & Community Workshop August 2019, Tuscon

Preferred Options for Alert Production in LOY1

Commissioning-DataBuild templates, where possible, from commissioning data before the start of
TemplatesTemplatesLOY1, and use them to generate alerts during LOY1.

LOY1-Data Templates

Build templates progressively from data obtained during LOY1 (e.g., on a monthly timescale), and use them to generate alerts during LOY1, either instead of, or in addition to using commissioning data to build templates.

Option	Scope	Risks	Requirements	Consistency	Science	
Commissioning- Data Templates	potential minor expansion	no risk	no violations	somewhat* consistent	enables some** science	E
LOY1-Data Templates	moderate upscope (no new algorithmic scope)	no risk	no violations	somewhat* consistent	enables more** science	

* because templates are built from images obtained in a short time window and because alerts cannot contain, e.g., a 12-month history or matches to nearby DR objects ** "some vs. more" is in terms of sky area in which alert generation is possible, the total number of alerts produced, and the filters in which alerts can be produced

PST Science Collaborations • 2019-11-20

 Lasair should aim to be operationally ready for the start of LOY01 : October 2022