#### 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

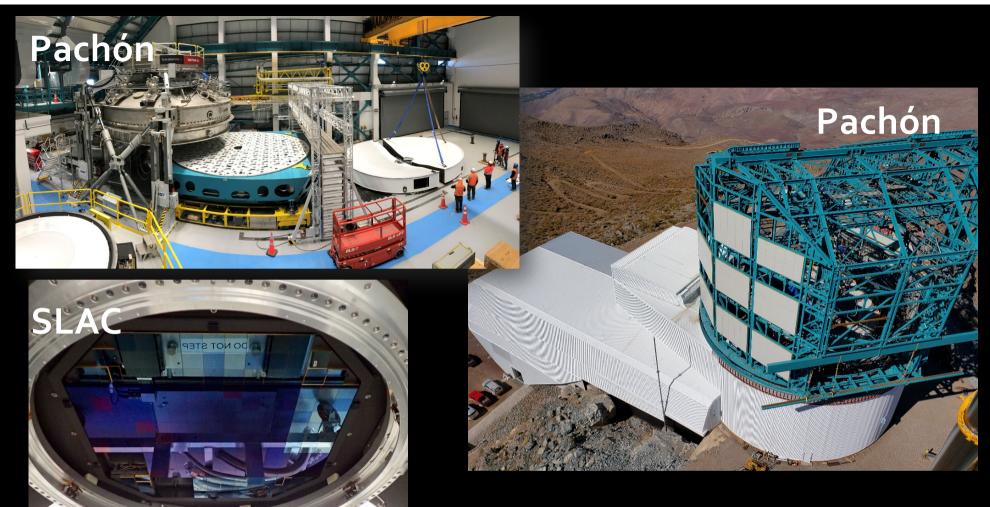






AAS 235 - VERA RUBIN OBSERVATORY OPEN HOUSE - 2020-01-06 - HONOLULU, HI





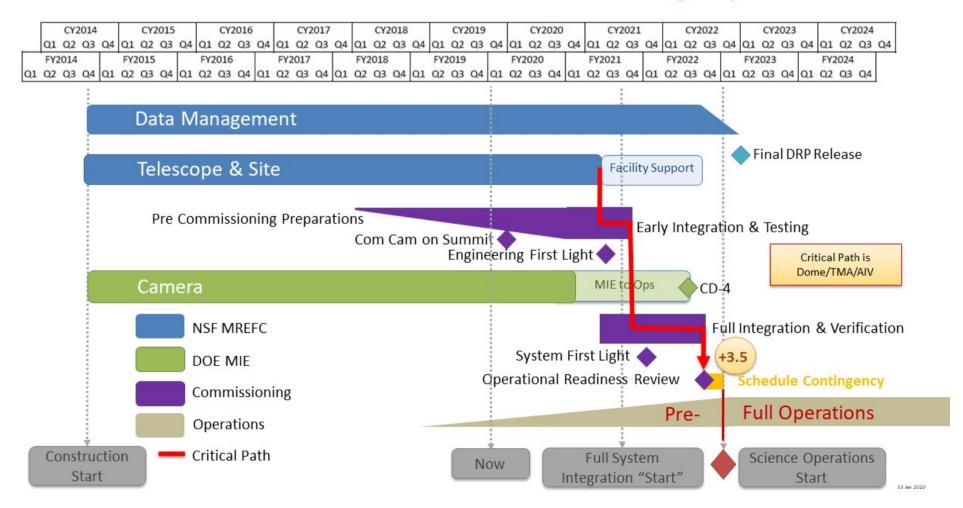
Pics from Steve Kahn's talk at AAS Hawaii, 6<sup>th</sup> Jan 2020



**K**LSST:UK Consortium

# LSST Schedule

#### LSST Forecast Schedule – 3.5 Months Contingency



# Commissioning and 1<sup>st</sup>Year data plans (latest from AAS Open house 6<sup>th</sup> 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 1<sup>st</sup>Year data plans

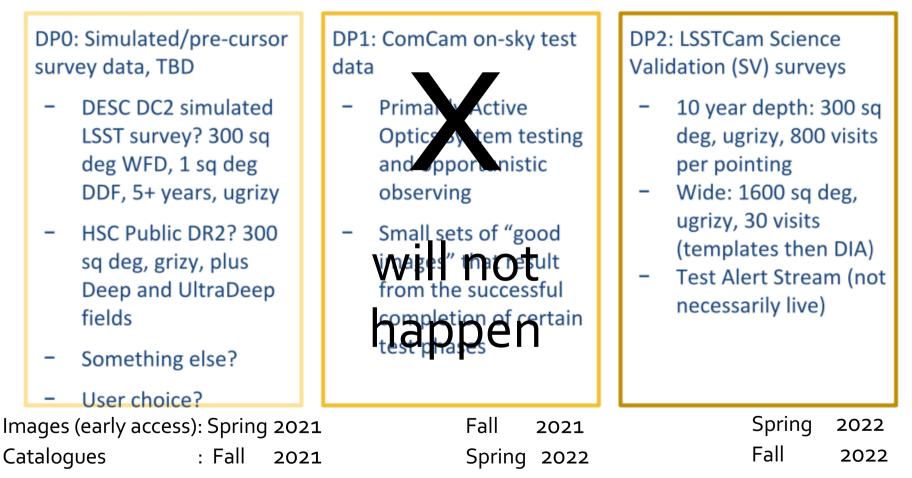
- After DR1 : can start "full fidelity" alert generation meaning, every image, difference and alerts
- Commissioning and LOY1 : starting a process to solicit feedback from Science Collaborations (presume SAC too)
  - Area vs Filter
  - Template building
  - What can be done during commissioning ?

## "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<br/>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