

# LSST:UK in-kind contributions proposal: update and status

Bob Mann  
LSST:UK Project Leader



# Rubin LSST funding and data

- Construction funding
  - Mainly US agencies -  
NSF: \$437M & DOE: \$168M
- Data
  - Alerts: world-public at once
  - Static sky: images & catalogues
    - Two-year proprietary period, then world-public
- Professional astronomers from the US and Chile (host) have rights to the proprietary data
- Others must gain them by making contributions to Rubin operations – about \$70M/year



# International contributions

## 2015

- Cash subscription
- STFC signed Memorandum of Agreement to secure data right for 100 PIs (and 400 Junior Associates)

## 2019

- In-kind contribution: either
  - **Offset costs** to US agencies - i.e. do work that would happen in US otherwise
  - **Add value** to US scientific return from Rubin LSST – e.g. other data or software for user-generated products



# In-kind contributions model

- Great opportunity for the UK
  - Gain data rights credit for work we're already doing
  - Invited to make cost-offsetting contributions
- Objectives
  1. Expand data rights – ideally to whole UK community
  2. Earn place within Rubin operations consortium



# UK in-kind package

## VALUE-ADDING

- Existing software development activities (Phase B)
- Planned future software dev. activities (Phases C and D)

**Total value: equivalent to ~300 PI slots**

## COST-OFFSETTING

- 25% share of annual Data Release Processing
- Data Access Centre
- EPO software development
- Contribute to Commissioning
- International Prog. Coordin.
- Postdoc secondments

*Bind us into ops. consortium*

DAC + DRP: computing resources from IRIS



# Next steps

- UK in-kind proposal recommended to US agencies by Rubin Observatory
- STFC & US agencies to negotiate directly soon
  - N.B. STFC endorse our plan, but have not secured all the funding for it yet
- Expect data rights agreement by end of 2021

