

Open Data Framework Science Improves



- LSST Science is "infinite." Limiting access limits science. Opening access leads to more science
- ODF shows true world leadership and opens door to leverage international cooperation in scientific experiments.
- The ODF will bring more resources to LSST science as it adds key non-US follow up facilities.
- Opening opportunities for US investigators to collaborate internationally, and to leverage their LSST programs to enable access to non-US facilities and resources.





Open Data Framework Control Data



The ODF allows LSST and the agencies to control who gets data and what data they get, and when they get it.

 The ODF eliminates need for the agencies to sign up to international agreements, selling proprietary data rights to other countries, at a value well below true proportional recovery of overall cost to build and operate LSST.





Open Data Framework Publishing



Without ODF, it is difficult for scientists to freely collaborate and publish with others who do not have data rights. ODF eliminates all these issues.





Open Data Framework Challenges



The ODF would require the agencies to cover funding that would have been at least partially supplied by the LSSTC via international contributors. Under the current plan, roughly an average of \$13M per year additional funding is required. Any redistribution of scope may increase costs.

- The ODF changes the LSSTC role in operations possibly causing confusion in the community given LSSTC's historical role in the development of LSST.
- The ODF may increase competition for US and Chile investigators in making timely discoveries from LSST data.





Open Data Framework Maximizes Science



LSST is a world unique and best capability, think of it as the most incredible finder scope ever made.

- The more scientists that have access to LSST data, the more analyses and follow-up can be done.
- Most of the world's follow-up capability is now outside the US
- Global investment in astronomy increasing in 2020's (ELTs, JWST, Euclid, SKA, ALMA, ngVLA, Athena ...)
- Growing investments from China, Japan, Korea, India, Australia, Europe ...
- LSST can enable huge science by leveraging these global investments







Open Data Framework Stakeholders



- Project and operations have contacted key operations partners (Chile, Brazil, France).
- Briefed science collaborations. Concerns over competition for science.
 Power users are already in collaborations and no history of competing collaborations within LSST. We believe new users will want to join existing collaborations.



