

LMT User  
Support from  
end-to-end

*Overview of Topics*

- Observing Proposals and Proposal Reviews
- Preparation for Observations
- Execution of Observations
- Pipeline Reduction of Data to Data Products
- Data Archiving and support of Archival Science

1

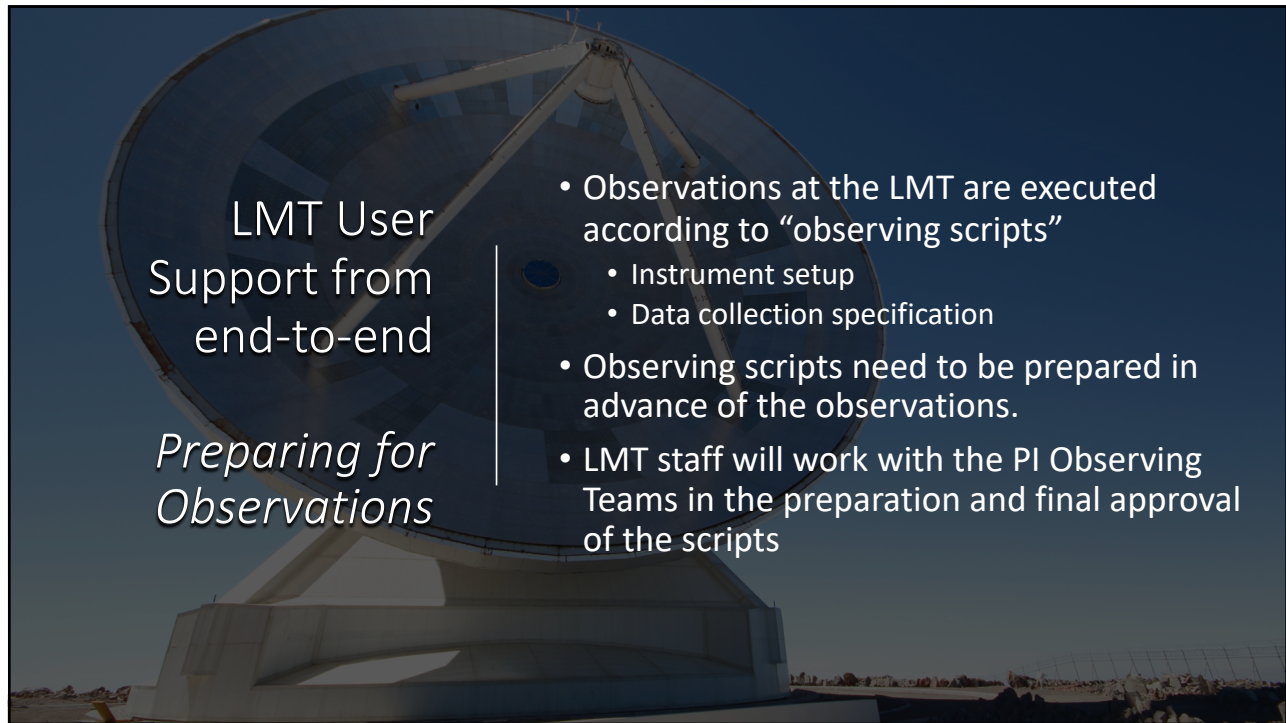


LMT User  
Support from  
end-to-end

*Observing  
Proposals and  
Proposal Review*

- All LMT observing projects are granted time through a competitive proposal review process
- A single Time Allocation Committee reviews all proposals and creates a prioritized list
- The TAC will draw on the expertise of all user communities in the review process.
  - *Please accept invitations to provide reviews to the committee.*
- The LMT staff will provide a “help desk” service to assist proposers.

2




LMT User  
Support from  
end-to-end

*Preparing for  
Observations*

- Observations at the LMT are executed according to “observing scripts”
  - Instrument setup
  - Data collection specification
- Observing scripts need to be prepared in advance of the observations.
- LMT staff will work with the PI Observing Teams in the preparation and final approval of the scripts

3



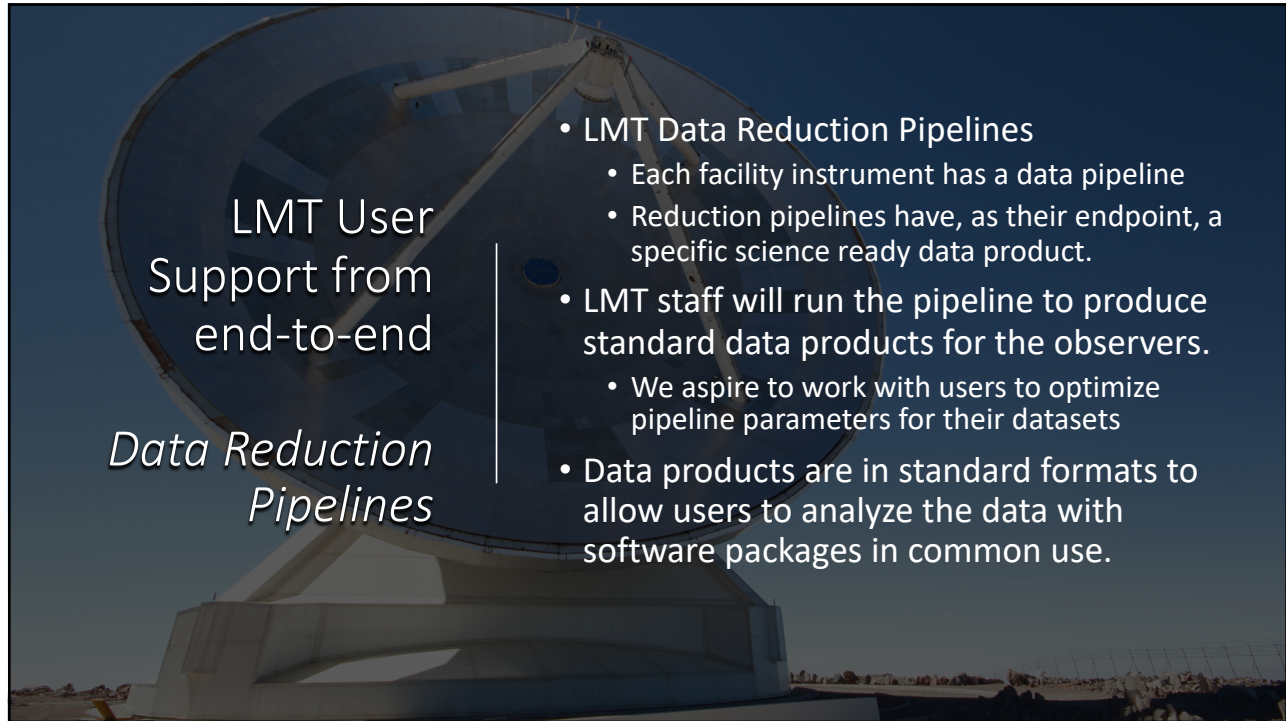
LMT User  
Support from  
end-to-end

*Execution of  
Observations*

- Queue Scheduled
  - scientific priorities established by the TAC.
  - current weather conditions at the site.
  - distribution of observing time between the LMT user communities.
- Service Observing
  - trained operators; oversight by support scientists.
- Ability of Proposal PI Teams to remotely monitor their observations is under development.
  - For first season, we anticipate limited quick-look capabilities and limited ability to alter observing programs in real time.

4



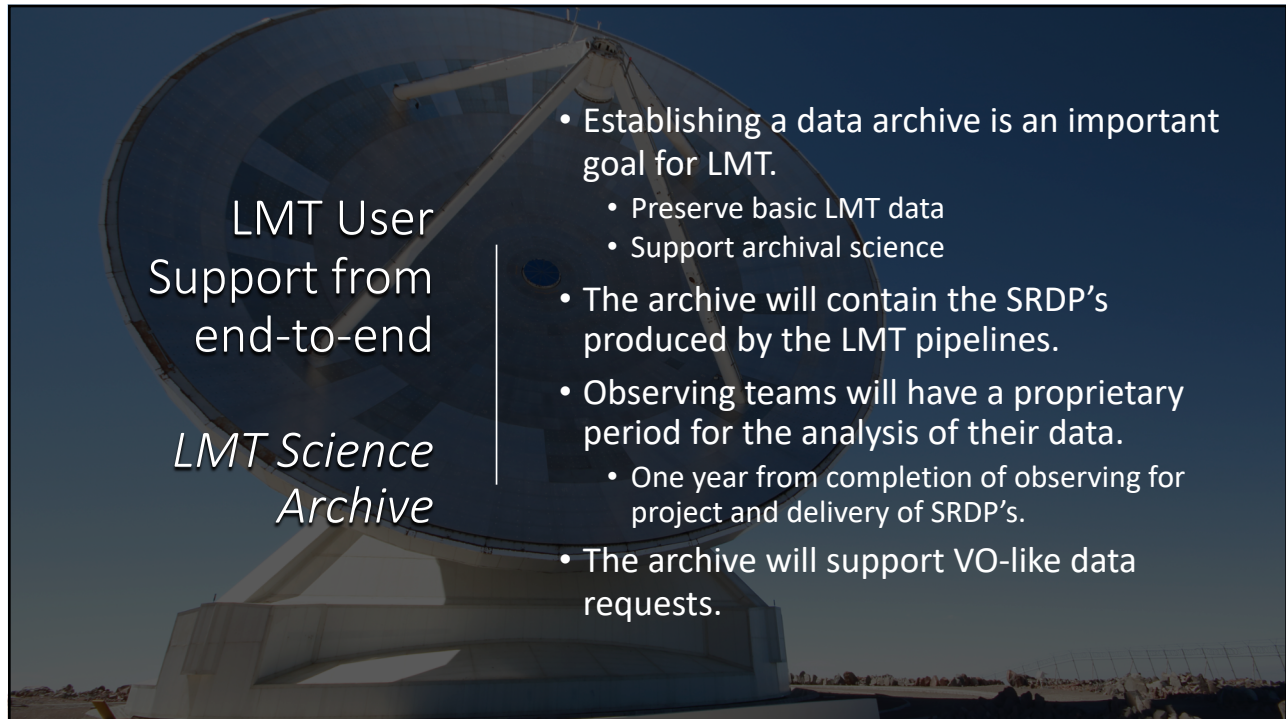


LMT User  
Support from  
end-to-end

*Data Reduction  
Pipelines*

- LMT Data Reduction Pipelines
  - Each facility instrument has a data pipeline
  - Reduction pipelines have, as their endpoint, a specific science ready data product.
- LMT staff will run the pipeline to produce standard data products for the observers.
  - We aspire to work with users to optimize pipeline parameters for their datasets
- Data products are in standard formats to allow users to analyze the data with software packages in common use.

5



LMT User  
Support from  
end-to-end

*LMT Science  
Archive*

- Establishing a data archive is an important goal for LMT.
  - Preserve basic LMT data
  - Support archival science
- The archive will contain the SRDP's produced by the LMT pipelines.
- Observing teams will have a proprietary period for the analysis of their data.
  - One year from completion of observing for project and delivery of SRDP's.
- The archive will support VO-like data requests.

6