

# Education and Public Outreach (EPO)



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Head of LSST EPO

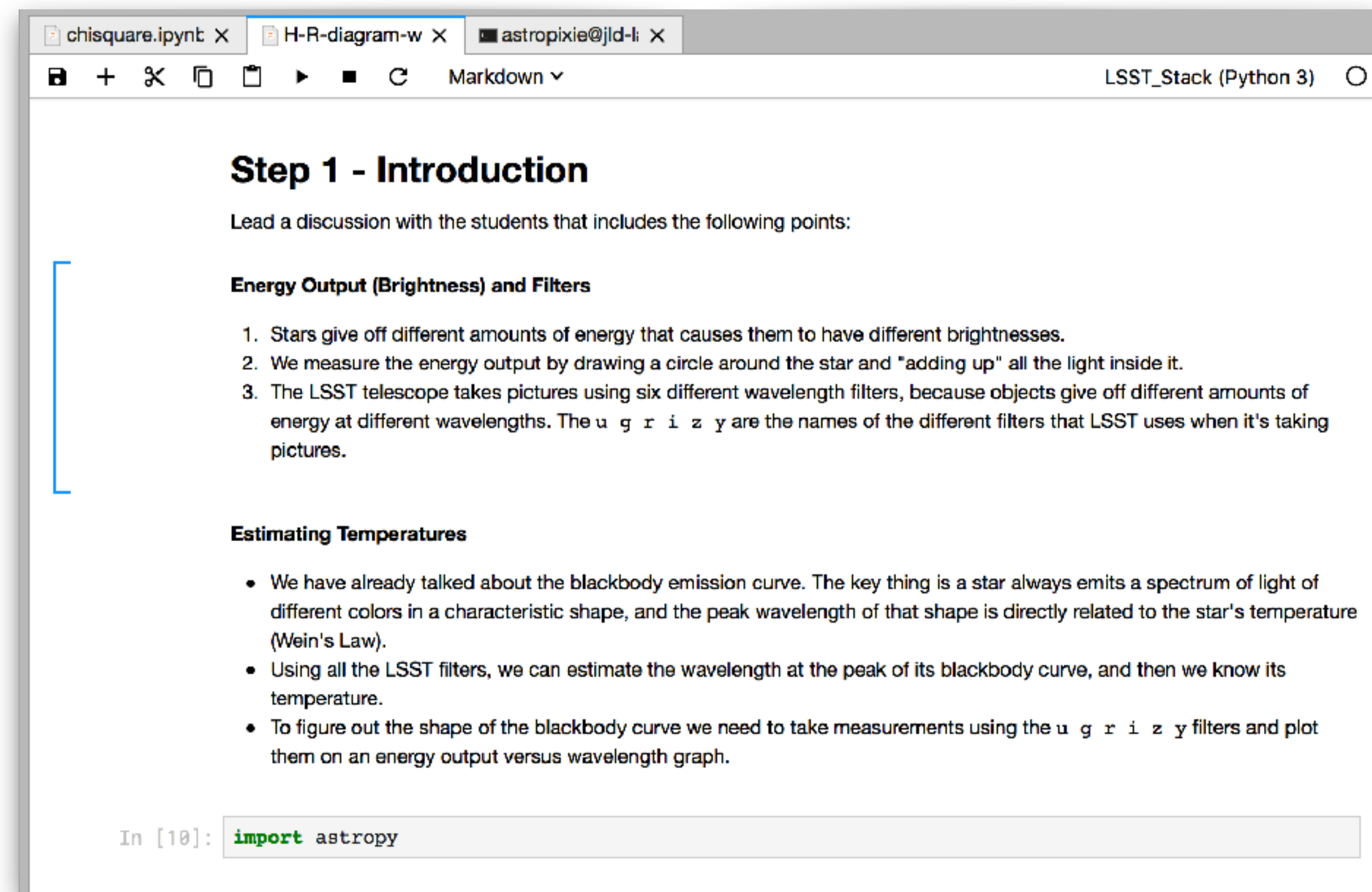
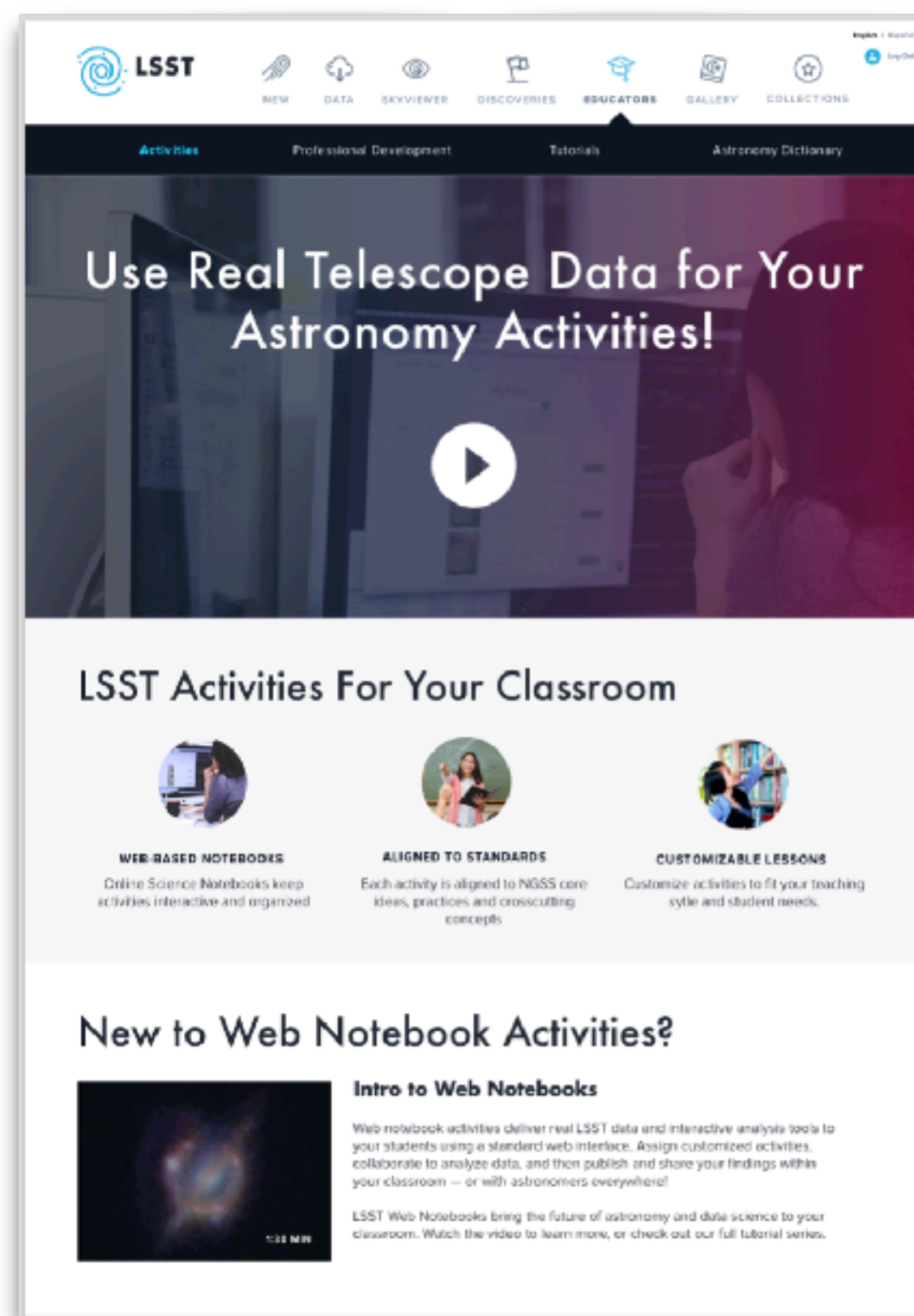
## EPO Purpose

To provide non-specialists access to LSST data through easy-to-use digital tools and interfaces that engage diverse communities with authentic research experiences and activities.

# Audiences for LSST EPO



- General Public
- Citizen science principal investigators
- Formal Educators
- Content developers at informal science education facilities



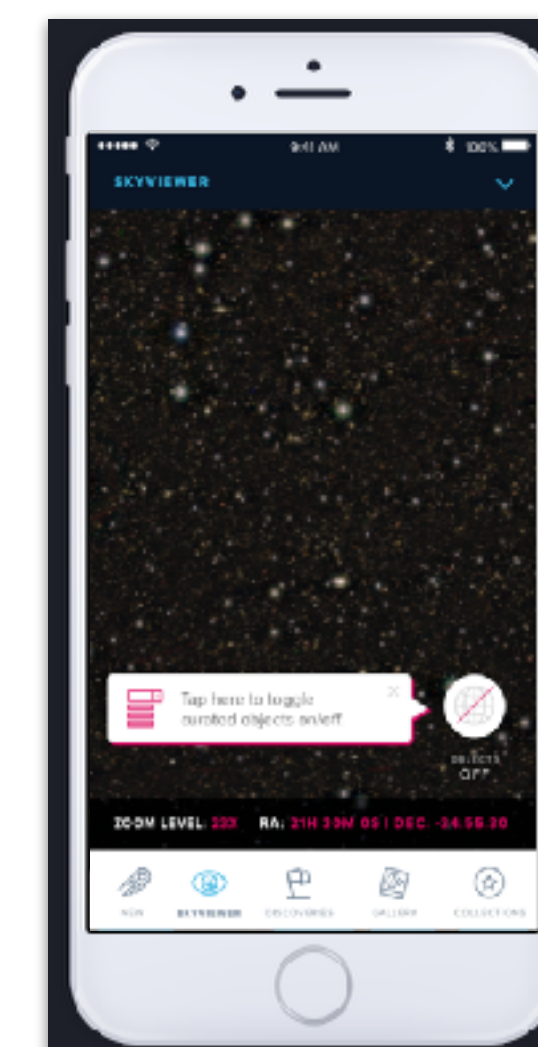
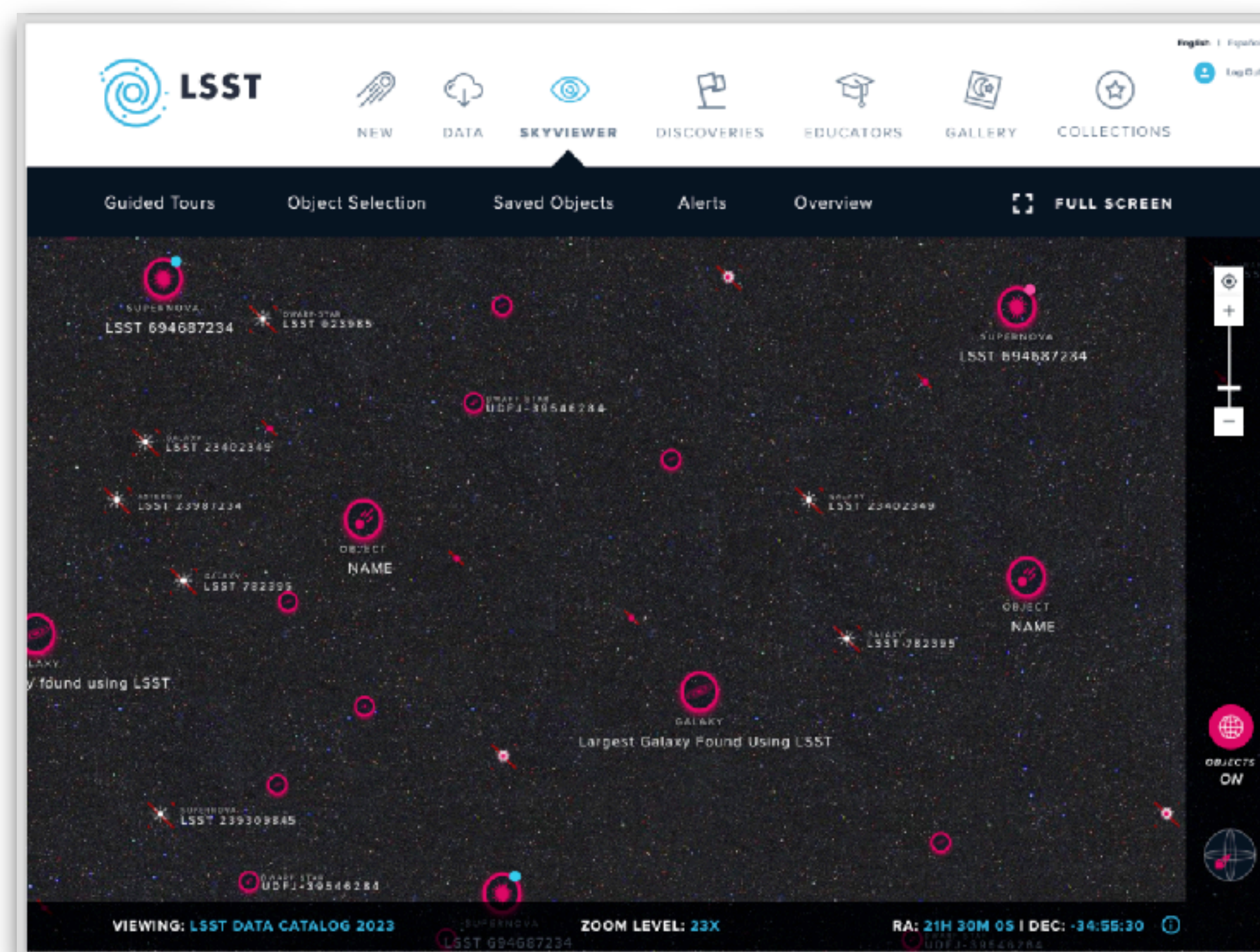
# Key Responsibilities of EPO During Operations

- Provide non-specialists access to LSST data through online tools and interfaces.
- Facilitate citizen science projects that use LSST data.
- Further STEM education and training by engaging with educators to integrate real LSST data into classrooms and introductory astronomy courses.
- Develop multi-media resources for content developers at informal science education facilities.
- Build partnerships with institutions and organizations serving under-represented groups and proactively engage with diverse audiences.
- Engage with the Chilean community by providing EPO products in Spanish.
- Remain agile and relevant during the full lifetime of Operations by adjusting to technology trends and educational priorities.
- Provide evidence-based evaluation of the LSST EPO program and publicly report findings.

# EPO Portal

- Sky Viewer
- Education Hub
- Science Notebooks
- Gallery

## Citizen Science



## How LSST scientists can contribute to EPO during Construction?

- Develop Python modules and notebook activities that tie into LSST science goals
- Assist Implementing pre-cursor data and LSST Simulated data into EPO Portal and science notebook activities.
- Share networks to improve our testing and evaluation, particularly with minority-serving institutions and those traditionally under-represented in STEM
- Prepare to lead Citizen Science Projects using LSST data.
- Seek out diversity/equity/inclusion training to communicate skillfully and sensitively with under-represented groups

# LSST EPO is currently...

- Working with science community to define how contributions to EPO Construction and Operations activities can appropriately tie into “Broader Impacts” for NSF proposals
- Testing content designs with future EPO Portal users
- Preparing for the EPO Review Sept 26-28
- Excited to start \*building\* after EPO Review

*“It’s not targeted towards people who have an academic, scientific-academic background. It’s written in language that is understandable, and it’s engaging and it’s friendly. It’s conversational, and it’s humanized.”*

Darci – Astronomy Enthusiast

*“This is a really neat website! It’s just full of resources - the people, the technology, the data, all the different areas of exploration and education. So, I would describe it as a very useful tool especially, to an educator, because it has summary information and visuals [...] and different individuals and the work that they do, which is great when you are trying to excite people to become scientists.”*

Matt – Planetarium



*“For educators it’s really important that there isn’t only the sample lesson plans but there’s also ways to get professional development regarding the LSST. I’m going to use this website as soon as it comes out.”*

Lori – High School Teacher

*“I am sooooo excited for when this resource goes live! It’s so well done - an overwhelming amount of information that’s been chunked perfectly, and is so user friendly. I can’t wait to be able to use this in the classroom - my students will be so engaged and excited to explore and learn! It’s phenomenal and my future go-to for astronomy!”*

Christina – Middle School Teacher

# LSST EPO communication with science community during Construction

- [community.lsst.org](http://community.lsst.org)
- Regular talks to science collaboration chairs
- Presentations at LSST meetings, AAS, etc
- Social media
- Personal communication