



# What is MAST?

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Josh Peek

Principal Investigator

Barbara A. Mikulski Archive for Space Telescopes





#2

#4

#3

#1





Data Science Mission Office



Data Science Mission Office

Data Processing

Flight Ops

Data Science Mission Office

**MAST: The Brand**

Data Processing

Flight Ops

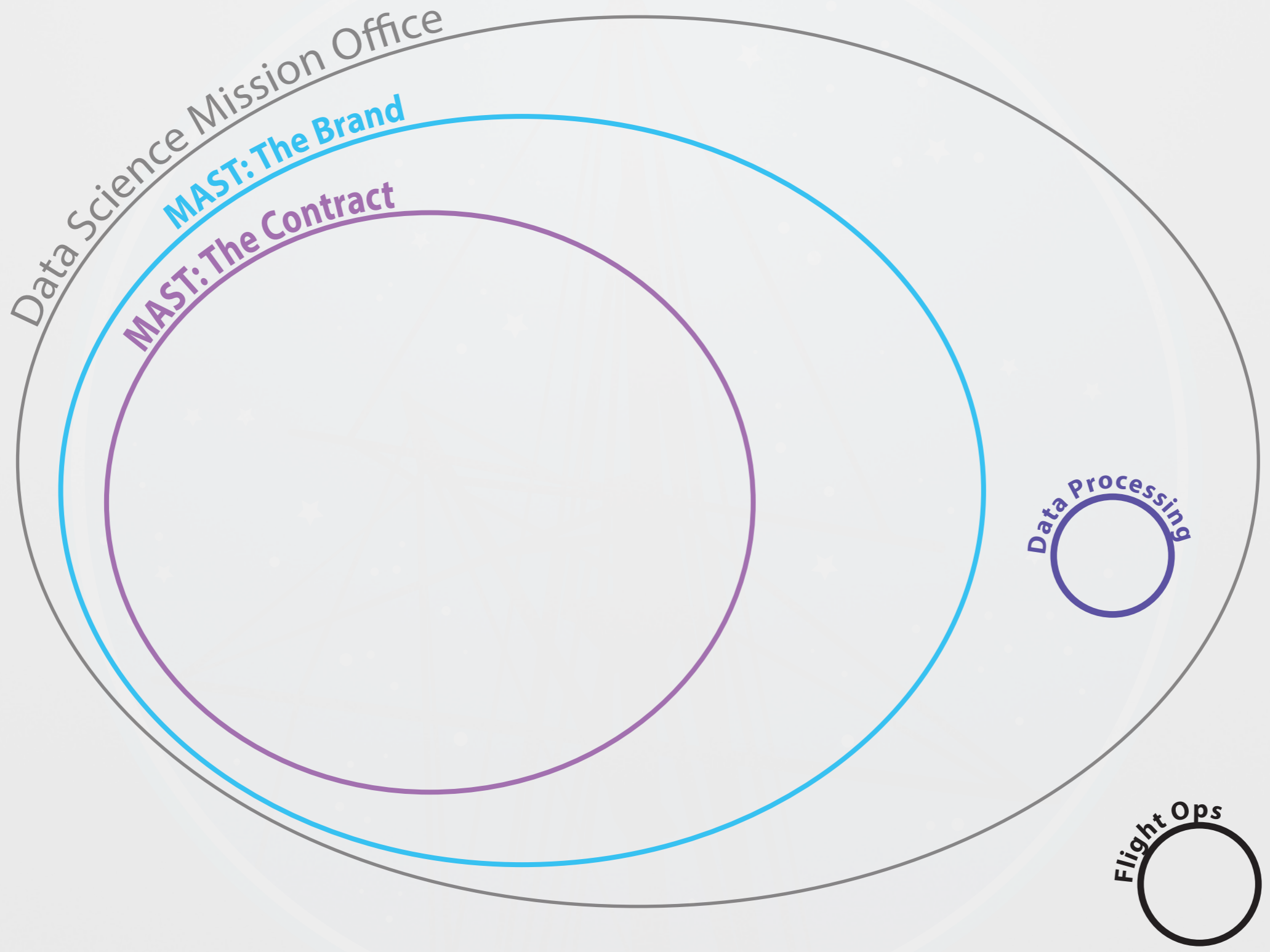
Data Science Mission Office

**MAST: The Brand**

**MAST: The Contract**

Data Processing

Flight Ops



Data Science Mission Office

MAST: The Brand

MAST: The Contract

HST

HLA

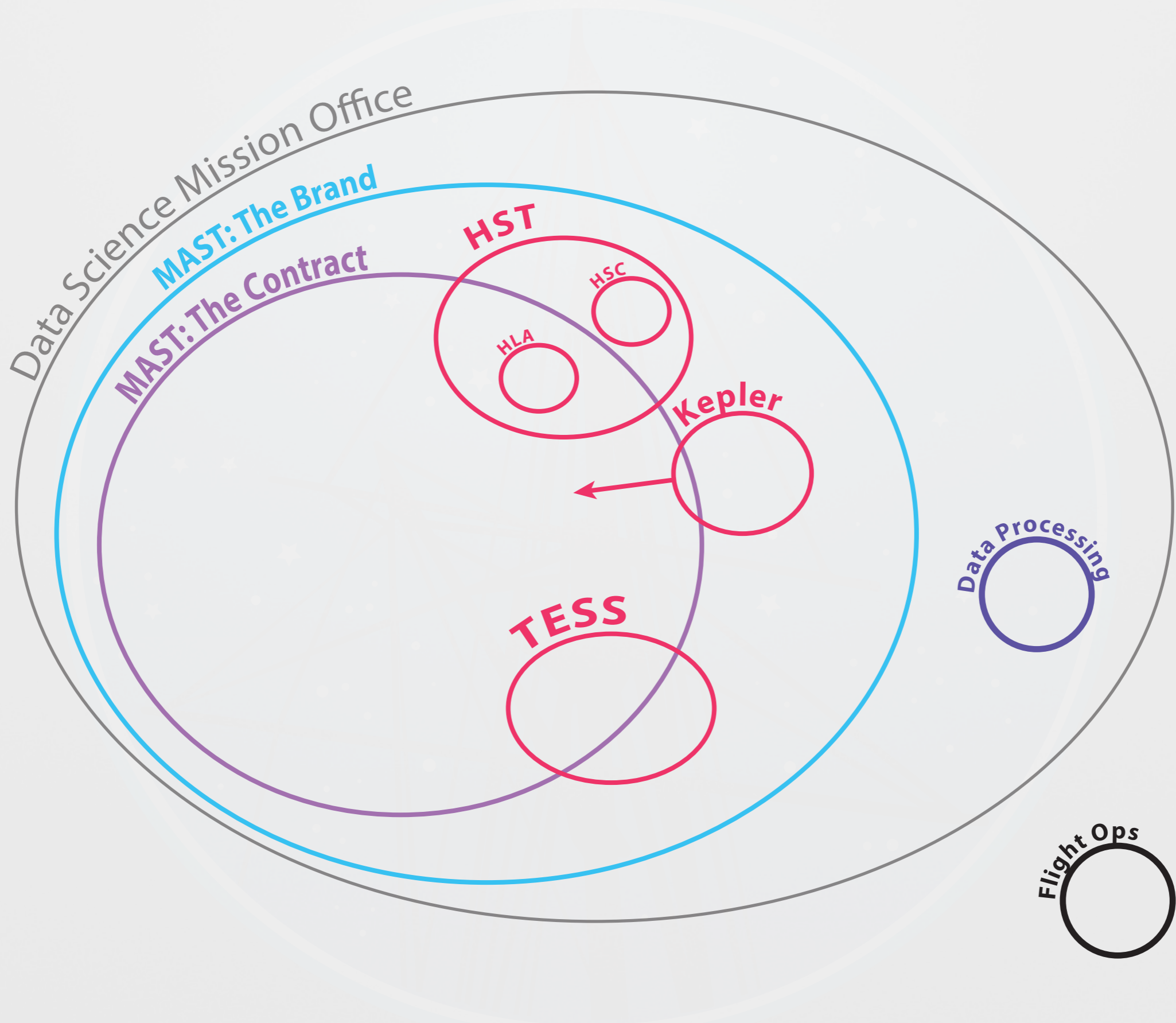
HSC

Kepler

TESS

Data Processing

Flight Ops





Data Science Mission Office

MAST: The Brand

MAST: The Contract

HST

HLA

HSC

Kepler

Portal

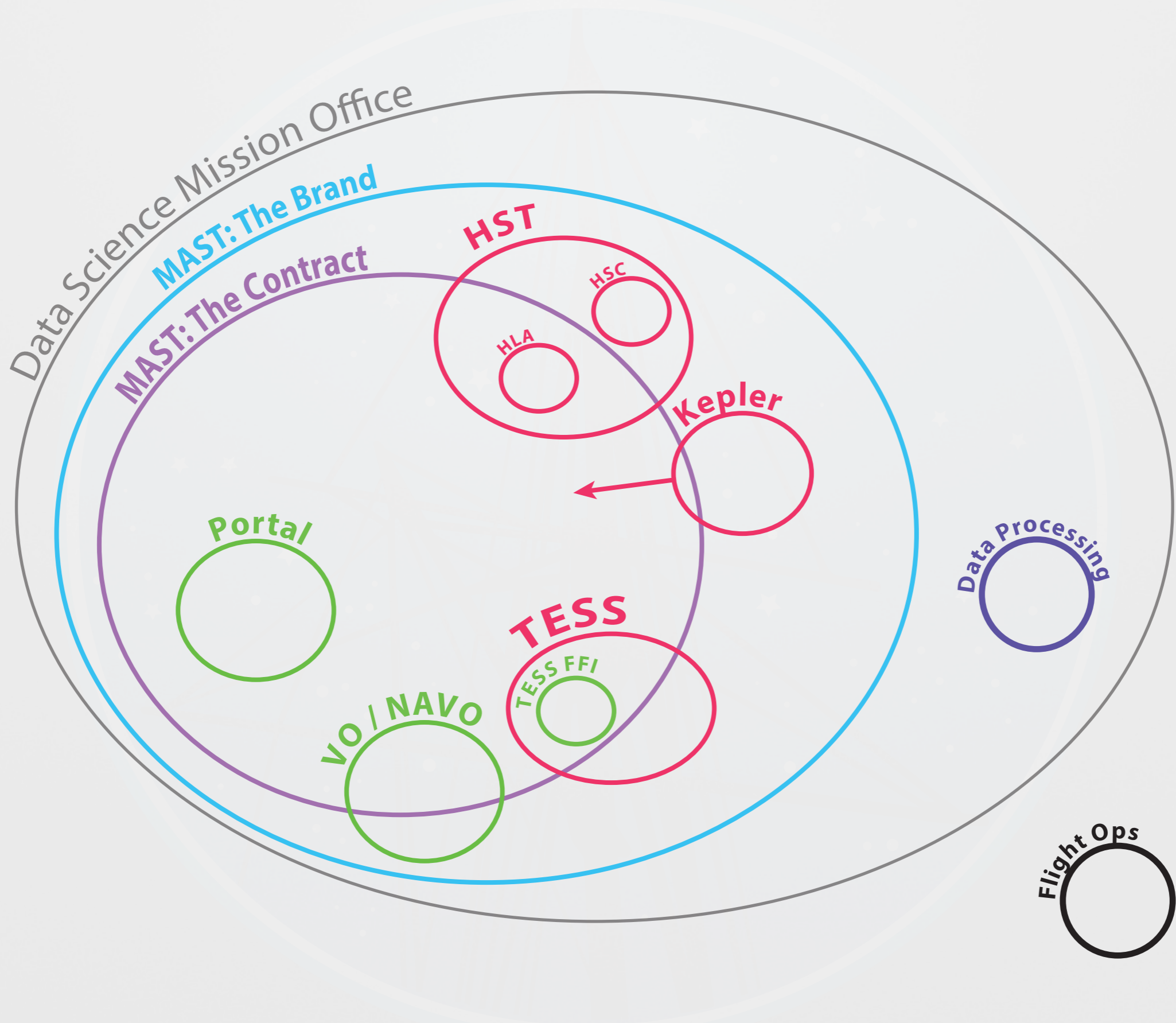
Data Processing

TESS

TESS FFI

VO / NAVO

Flight Ops





Data Science Mission Office

MAST: The Brand

MAST: The Contract

HST

JupyterLab / SSA

HLA

HSC

Kepler

Portal

Data Processing

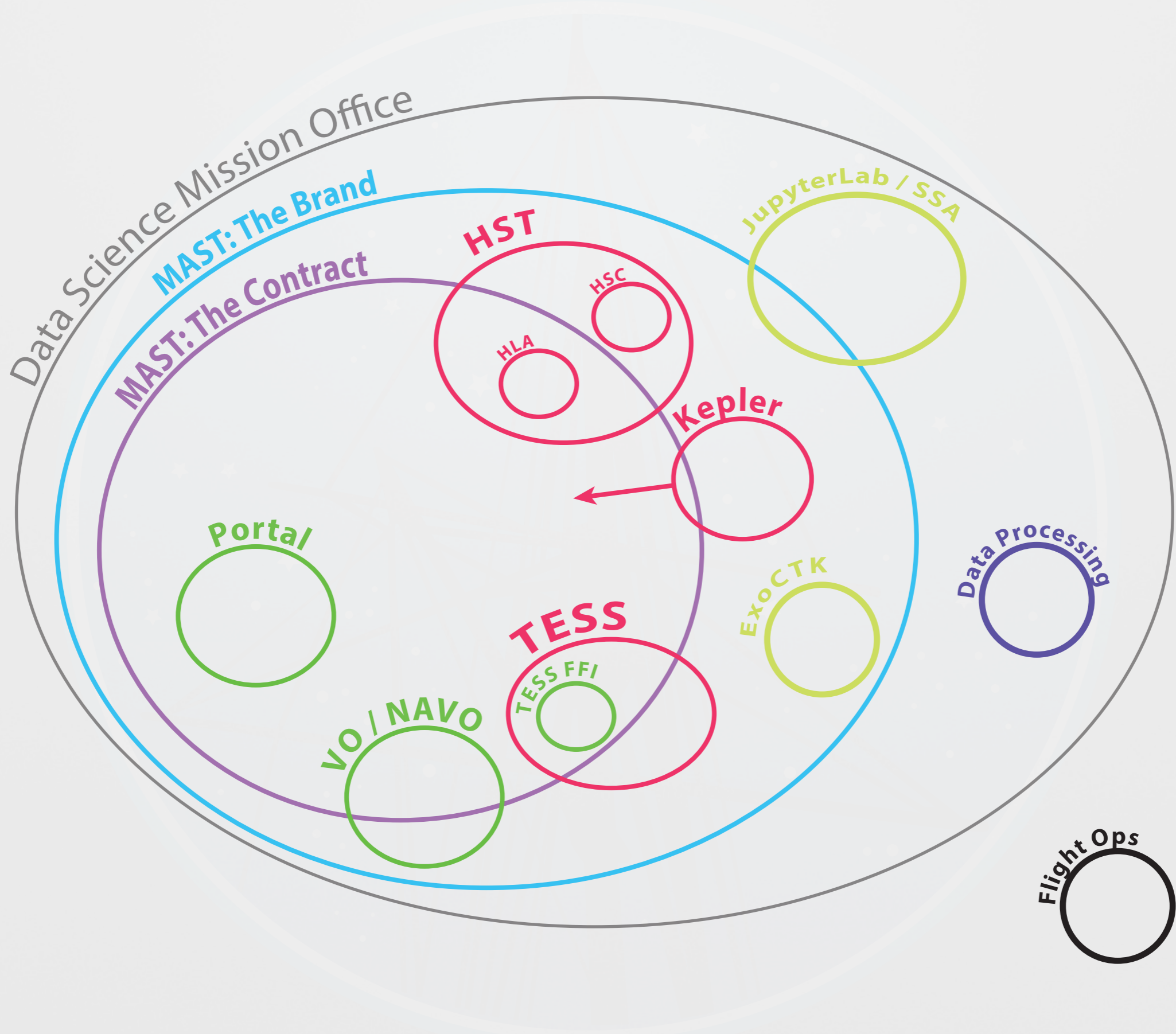
TESS

EXOCTK

VO / NAVO

TESS FFI

Flight Ops



# Space Telescope Science Institute Senior Leadership Team

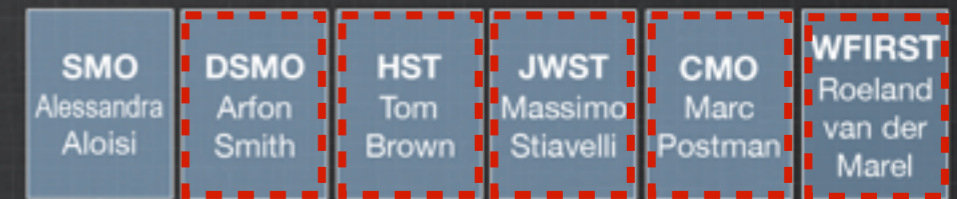
## Divisions

### Products & Services



## Missions

### Priorities & Deliveries



**Associate Director  
Operations**  
Jerry Kriss

**Associate Director  
Administration**  
Don Hough

**European Space  
Agency**  
Antonella Nota

**Science Staff  
Chair**  
Harry Ferguson

**Associate Director  
Science**  
Neill Reid

**Deputy Director**  
Nancy Levenson

**Director**  
Ken Sembach

INS – Instruments  
ITSD – Information Technology Services  
OED – Operations & Engineering  
OPO – Office of Public Outreach  
HR – Human Resources  
PMO – Program Management Office  
BRC – Business Resource Center

SMO – Science Mission Office  
CMO – Community Missions Office  
DSMO – Data Sciences Mission Office  
HST – Hubble Mission Office  
JWST – Webb Mission Office  
WFIRST – WFIRST Mission Office



# Data Science Mission Office

**Arfon Smith**  
*Head*

**Iva Momcheva**  
*Mission Scientist*

**Josh Peek**  
*Project Scientist*

**Mike Fox**  
*Sr. Infrastructure  
Engineer*

# OUR STRATEGIC GOALS

Excel in the science operations of NASA's current and future astrophysics flagship missions

Advance state-of-the-art astronomical data, archives, and tools for scientific discovery

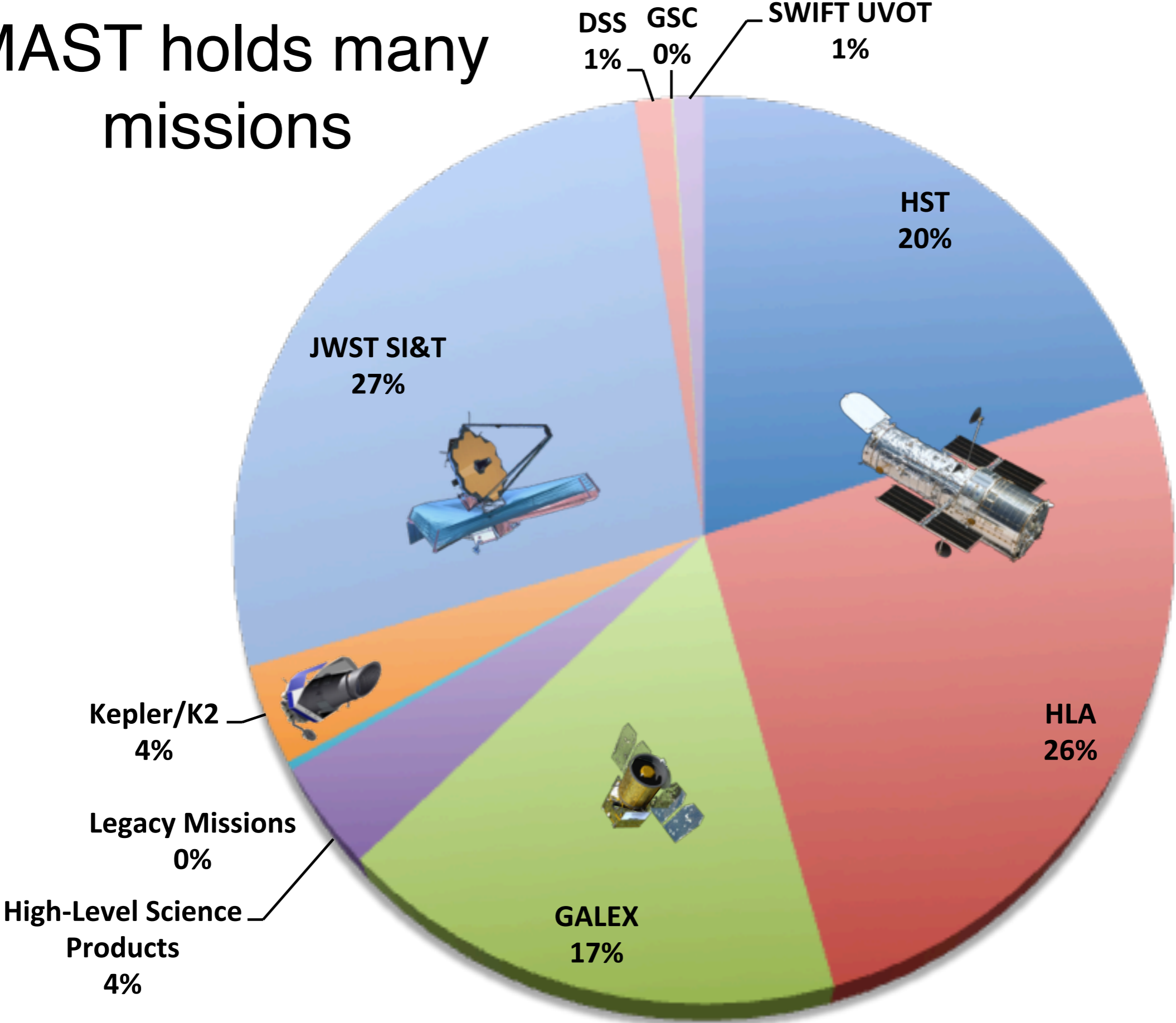
Make the world's astronomical information accessible to all



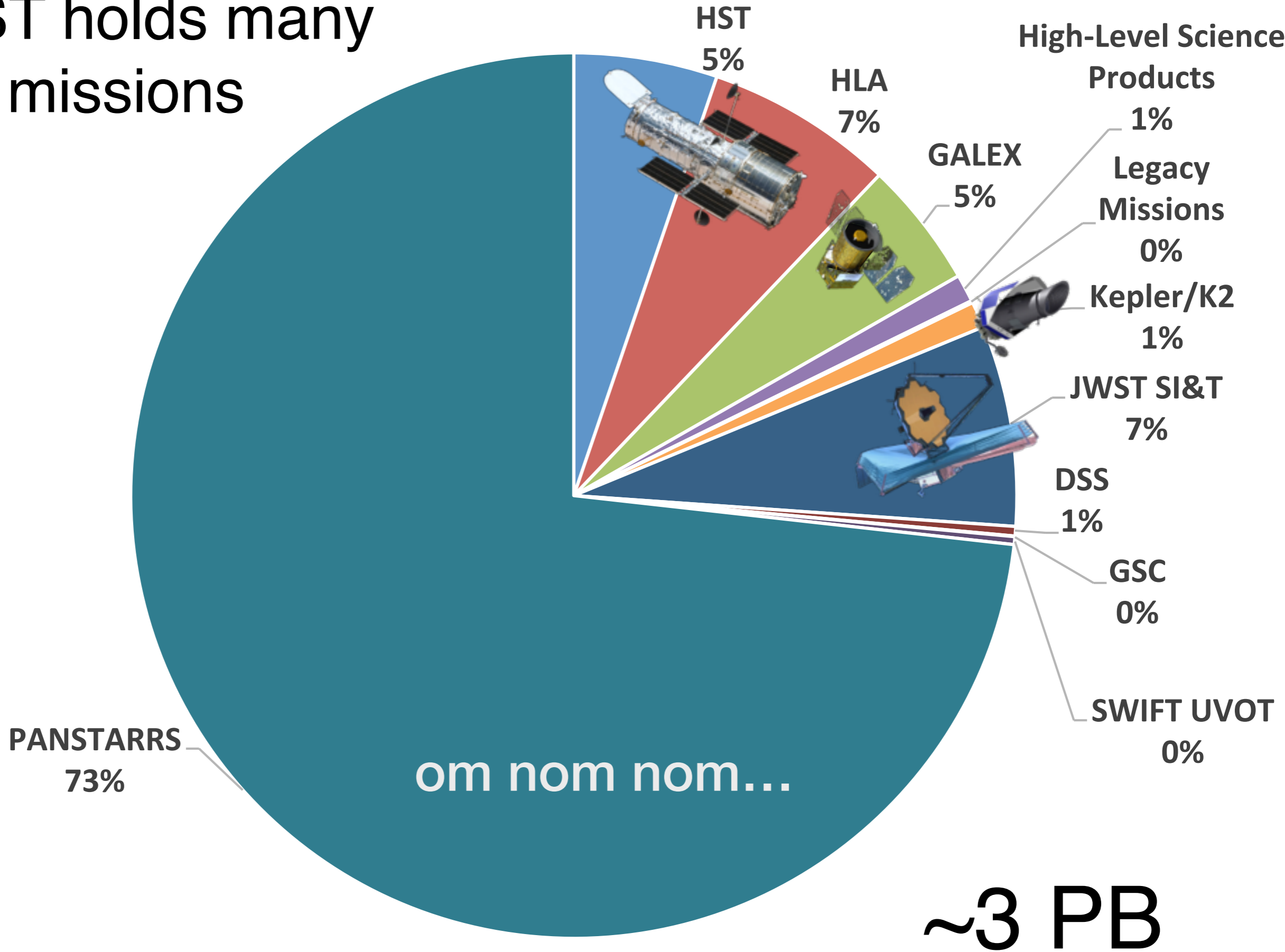
**STScI** | SPACE TELESCOPE  
SCIENCE INSTITUTE



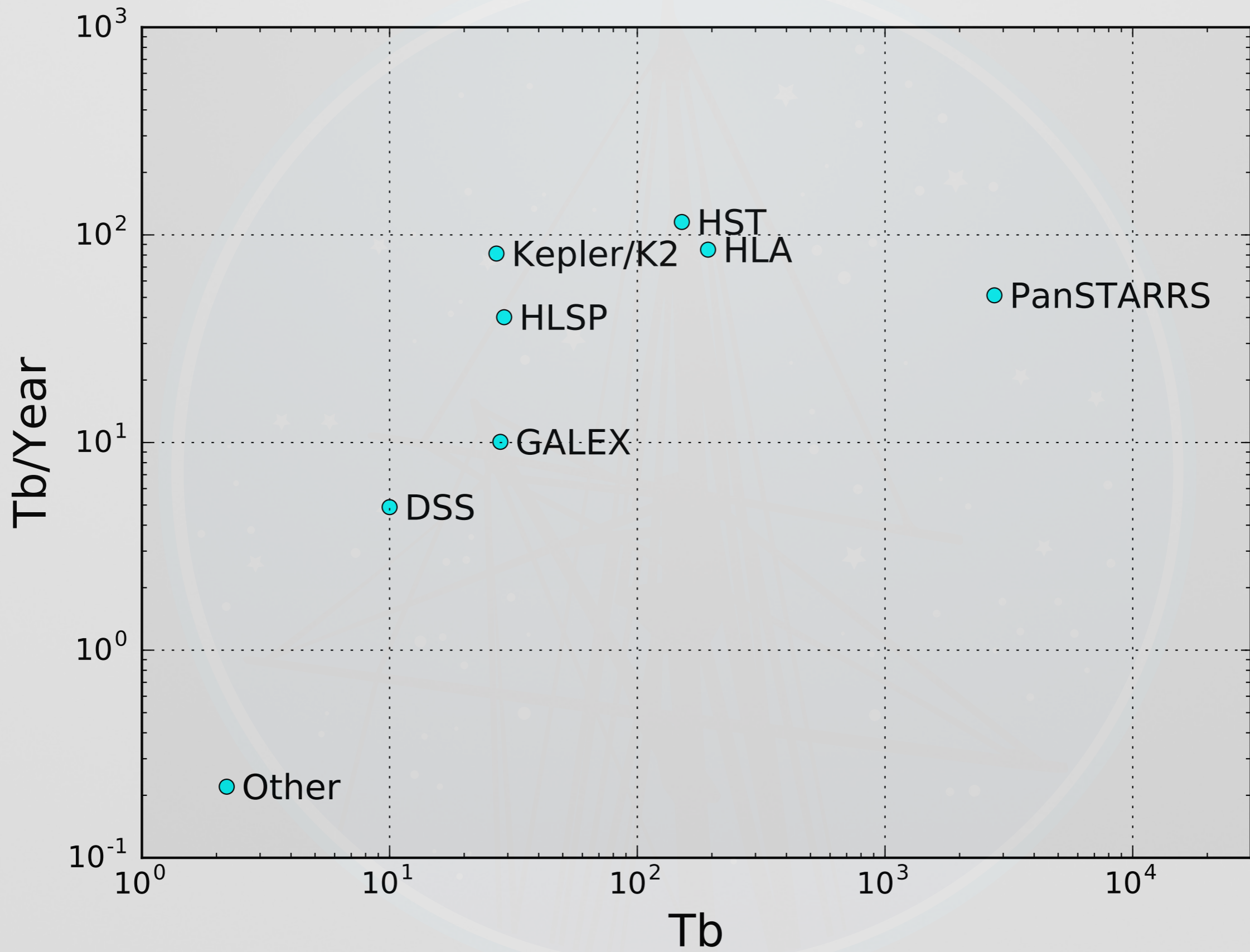
# MAST holds many missions



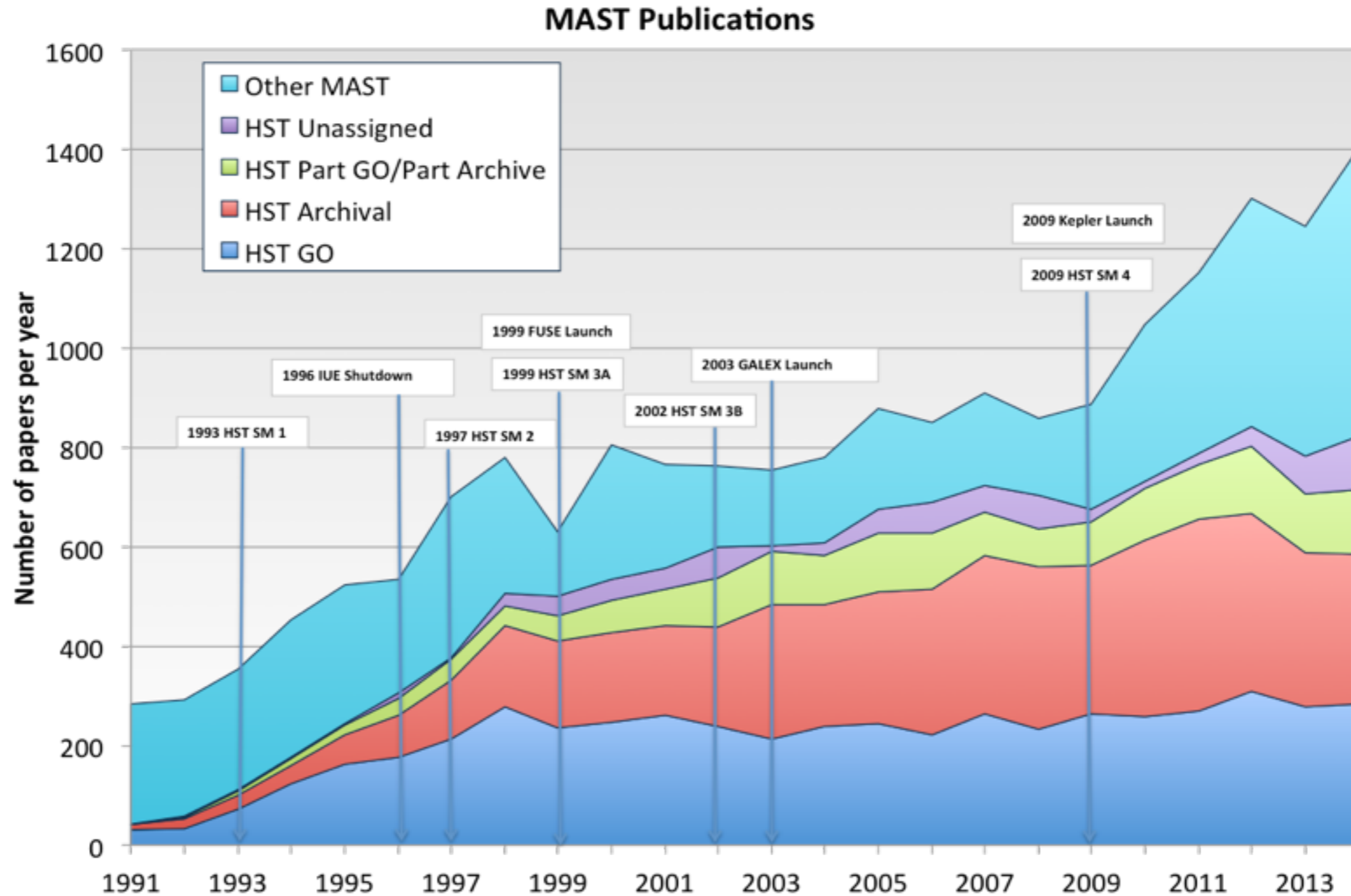
# MAST holds many missions







# More publications come from MAST!



In the last 4 years more than 1100 papers published using MAST data



### How to Read It

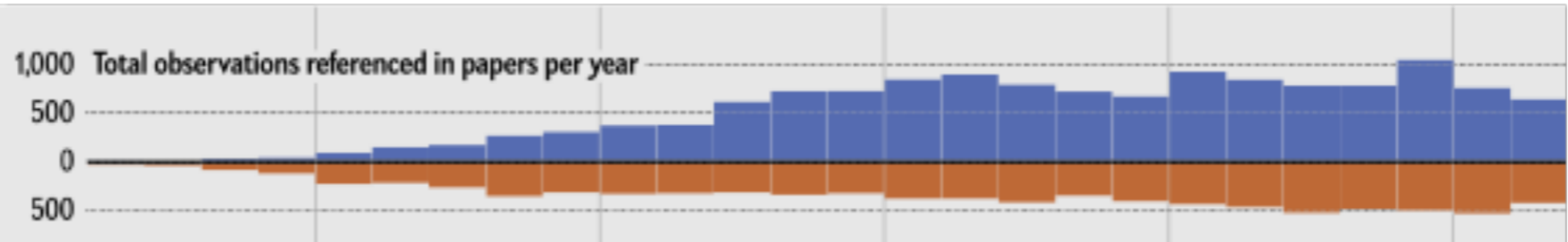
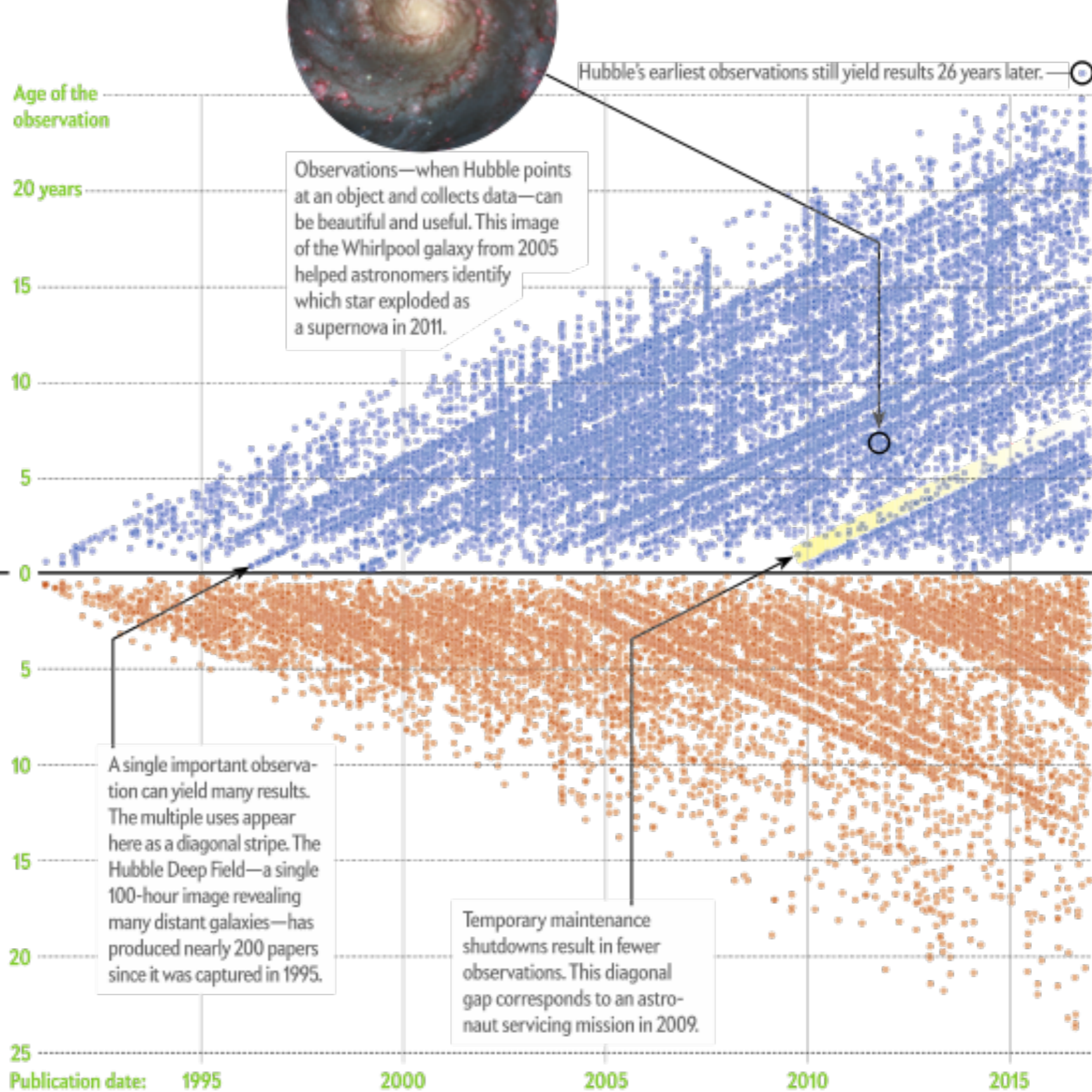
Each dot represents a Hubble observation referenced in a published paper.

Blue dots (nearly 14,000) relate to Hubble's archive: instead of asking for new observations, the researcher answered a question using existing images.

Orange dots (nearly 9,000) relate to new data: a researcher makes a specific observation request to answer a question.

An additional 10,000 references to Hubble observations appeared in papers using a mix of the telescope's new and archival images. Data are current as of early December 2016.

After Hubble's eventual demise, results based on new data (orange) will disappear, but those based on the archives (blue) will continue.





# Overarching Questions for the MUG and MAST Staff

The background of the slide features a circular graphic with a dark blue, starry sky. Overlaid on this is a constellation diagram with thin white lines connecting various points. In the center of the circle, there is a silhouette of a person standing and looking through a telescope. The overall aesthetic is that of a night sky or a celestial map.

- **Mission:** Is MAST's mission to “maximize the scientific impact of MAST missions”, or is to “enable everyone to make astronomical discoveries with MAST missions” or something else?
- **Strategy:** What is MAST strategy for 2019 and beyond?