CONSOLIDATING THE LEADERSHIP AND OVERSIGHT OF [ARCHIVE] ACTIVITIES WILL LEAD TO GREATER COORDINATION, ELIMINATE DUPLICATION, ENABLE MORE EFFICIENT USE OF RESOURCES AND ALLOW THE INSTITUTE TO TAKE FULL ADVANTAGE OF SYNERGIES BETWEEN THE DATA SCIENCE WORK ON MULTIPLE MISSIONS.

WE RECOMMEND THAT STScI FORM A DATA SCIENCE MISSION OFFICE AS SOON AS POSSIBLE.
WHO ARE WE?

Arfon Smith
Mission Office Head

Joshua Peek
Project Scientist

Iva Momcheva
Mission Scientist

Michael Fox
Infrastructure Engineer
AREAS OF RESPONSIBILITY

- Data management
  - Data systems
  - Data processing
  - Data analysis tools
- Archival work

Not in DSMO purview: planning, ETC, pipeline development
## Scheduled Hand-Offs

<table>
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<th>DMS area</th>
<th>April '17</th>
<th>May – June '17</th>
<th>July – Sept '17</th>
<th>FY18 onwards</th>
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<td>Planning</td>
<td>Dual mission</td>
<td>Full responsibility</td>
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<td>DAT (SSB)</td>
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WHAT WILL DSMO DO FOR HUBBLE?
IMPROVE INFRASTRUCTURE

- Recommend improvements to current infrastructure, process and management
- Update and consolidate toolchain across branches
- Explore cloud infrastructure for reprocessing, access and delivery of data
IMPROVE ARCHIVAL SERVICES

- Better support for large datasets (GO & archival large programs)
- Recommendations for delivering data and software
- Tools and access for HLSPs
- Consolidate services around archive
- Connect HST with other facilities

Credit: Katie Peek; Source: MAST, STSCI (data); Hubble Heritage Team (STScI/AURA)
IMPROVE DATA ANALYSIS TOOLS

- Dedicated data analysis tools team
- Update toolchain to Python
- Community and cross-AURA collaborations
THANK YOU!