

The background of the slide is a blue-tinted photograph of a large radio telescope. The telescope's dish is on the left, and its complex support structure, including a large dome-shaped enclosure, is visible on the right. The overall scene is set against a dark sky.

# Grid and Web Services

Brian Major, Giuliano Taffoni  
IVOA Interop, May 2018, Victoria



# VOSpace and Storage

- Two new VOS implementations that support file mounting:
  - Pat Dowler: The Cavern implementation (opencadc)
  - Giuliano Taffoni: VOSpace for HPC
- New VOSpace implementation at ICRAR (Andreas Wicenec)

ACTIONS: Simplify implementation effort.

- Container for a simple VOSpace?

# Authentication & Authorization

- Groups for authorization
  - Gerard Lemson: SciServer A&A
  - Sara Bertocco: Why we need groups
  - GMS WD: iterations to come
- Research Data Alliance
  - Carlo-Maria Zwölf: high level A&A requirements
- Credential Delegation
  - Token-based CDP
  - CDP in containers

# Authentication & Authorization (2)

- Increasingly large number of centres /projects who need to support authenticated access
- Missing link: application support

## ACTIONS:

- Need APPS to support authenticated access

# UWS Registry Extension

- To remain a Note
- TAP 1.1 to make non-normative reference
- Future of UWSRegExt needs thought

## ACTIONS:

- Note and associated XSD to be published ASAP

# Science Platforms

- Commercial Cloud Storage and processing
  - André Schaaff: HiPS in AWS cloud, pricing
  - Tom Donaldson: Reusable JupyterLab on AWS
- Full science platforms:
  - Gerard Lemson: SciServer has it all
  - Gregory Dubois-Felsmann, Kenny Lo: LSST Science Platform
- Platform technologies:
  - Brian Major: interactive user containers
  - Andy Lawrence on Notebooks:
    - Both hope and hype!
    - A great tool for collaboration

# Science Platforms (2)

## Standardization?

- We continue to learn best practices from each other
- Data centre capabilities?

## Storage Optimization

### ACTIONS:

- More prototypes
- How can GWS support the needs of KD and Machine Learning?

# GWS Telecons

- Will be continued! Watch for announcements on [grid@ivoa.net](mailto:grid@ivoa.net)



The background of the slide is a large, blue-tinted image of a satellite dish. The dish is on the left side, and its structure is visible. To the right, there is a large, dome-shaped structure, possibly a radio telescope or a large antenna, with a complex metal framework. The entire scene is set against a dark, blue sky.

Big *thank you* to all the presenters.

See you in November in College Park.

