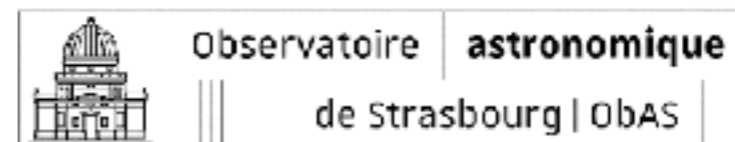




Standing Committee for Science Priorities (CSP) status

Interop meeting 25-29 April 2022
Ada Nebot for the CSP

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□ The CSP of the IVOA: who?

Who is the CSP?

- It is expected that the Standing Committee of Science Priorities will be consisted largely of members of the science community and active astronomy projects.

Members

- Members: Mark Allen, Christophe Arviset, Chenzhou Cui, Raffaele D'Abrusco, Vandana Desai, Gregory Dubois-Felsmann, Janet Evans, Pepi Fabbiano, Mark Lacy, Bruno Merin, Kai Lars Polsterer, Enrique Solano
- Chairs: Ada Nebot (chair) & Francesca Civano (vice-chair)

<http://ivoa.net/twiki/bin/view/IVOA/IvoaSciencePriorities>

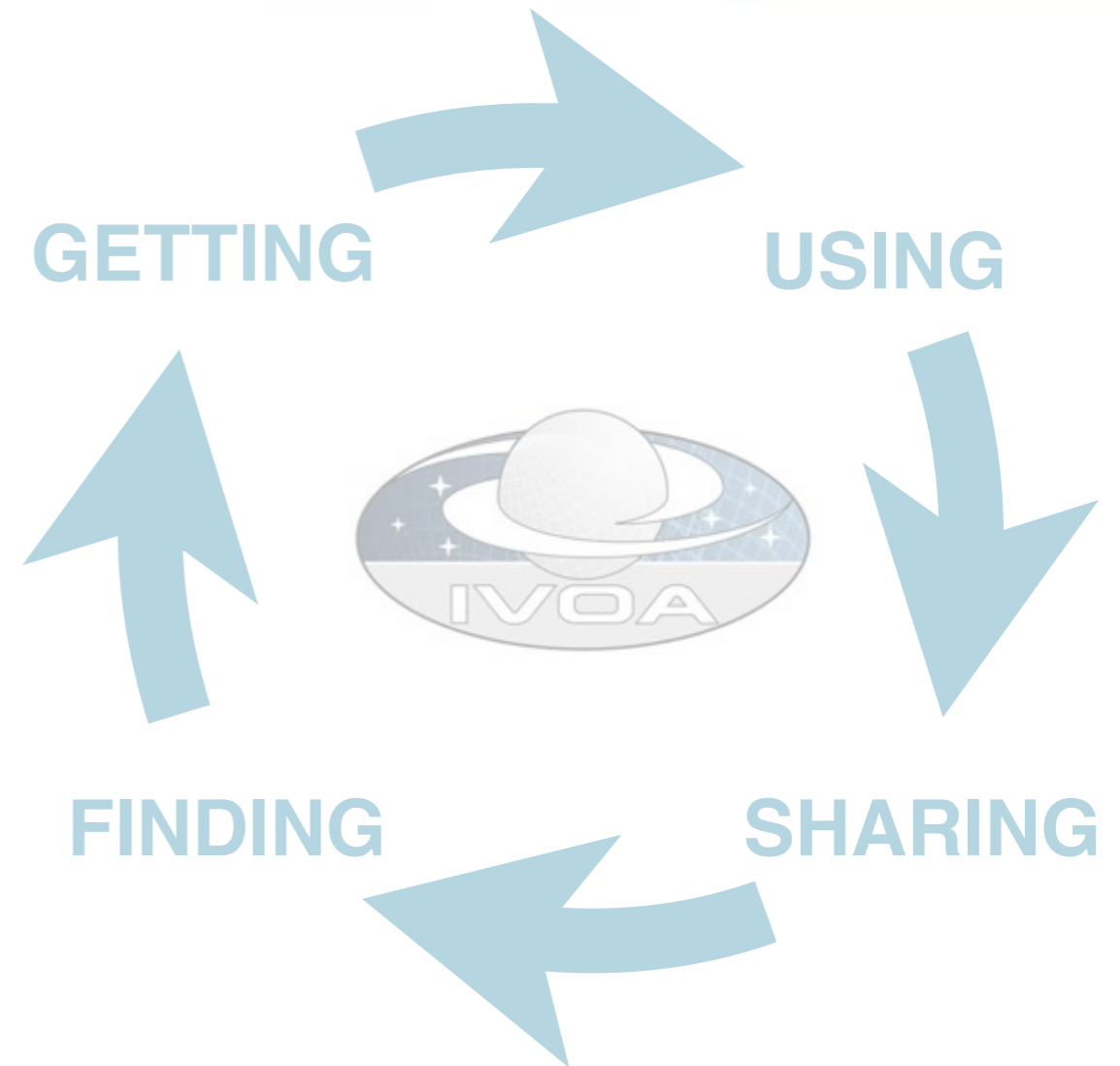
□ The CSP of the IVOA: what?

What is the goal of the CSP?

- Sustain the scientific impact of the VO as an interoperable ecosystem to support science
- Ensure continuous engagement of the international astronomical community

Astronomy community

- The astronomy community comprises missions that are active or under development, operating observatories, astronomical archives, and teams of astronomers performing research and disseminating data products to the community.



□ The CSP of the IVOA: why?

Clear benefits

- Growth in the scientific return of data
- Capability to discover and fuse multiple data sets
- Application of the VO in planning new observations and observing strategies



□ The CSP of the IVOA: how?

Recommend scientific priorities and scientific requirements

- Driven by scientific use cases that are developed in cooperation with the scientific community.
- Will drive the development of new services, protocols and tools, which will be developed by the IVOA and coordinated by the TCG



➔ Identify and transmit the needs of the community

□ The CSP of the IVOA: where and when?

A world wide continuous effort

- Support the TCG in the development of protocols to ensure they meet the actual scientific requirements
- Support VO members in developing tutorials, technical and scientific workshops and scientific training materials.



➡ Report back & forth

□ CSP Status

- The CSP is actively participating to the running meetings, and trying to keep up with the progress of the standards and the different communication channels (emails, GitHub, constant dialogue with the Exec & TCG)
- We have identified a few items that require special attention:
 - **Multi-messenger** - how interoperable are e.g. GWs, neutrino data?
 - **New formats** - how interoperable are these with the existing ones? (e.g. Parquet, PSRFITS, ...)
 - Protocols dedicated to **spectral lines** need a particular attention (SLAP v2, LineTAP)
 - Are we ready for the **next generation missions**? We need to evaluate which are the upgrades that need to be done in our protocols to keep up with the needs
 - 5V = volume, velocity, value, variety & veracity
 - How can VO protocols & formats help Machine learning and IA algorithms?
 - Extend protocols from discovery and access to data manipulation?

□ Survey & Panel session

- **Publish your data in the VO** : newcomers to the VO often encounter similar issues and we would like to hear about projects and their experience, to learn where the IVOA can streamline this process.
- **Survey Goal**: learn about projects, data distribution plans, and data products. We would like to learn if your project has plans/interest in using a common data sharing framework through the VO, and if so offer guidance through that process.
- **Panel Goal**: learn about the experience of projects who have gone through the process of publishing their data using IVOA standards
- **The ultimate goal** is to understand how we can better serve the community and help in publishing data into the Virtual Observatory.

□ Survey & Panel session

- **Panel session:** Publish your data in the VO
- **Date:** 26 April 2022, 15:00 UTC
- **Structure:** Summary of Survey + Panelists (60 min) + Q&A session (30 min)
- **Panelists:**
 - Dongwei Fan for LAMOST and the China VO
 - Tamara Civera for the Observatorio de Javalambre in Spain
 - Alberto Micol for the European Southern Observatory
 - Yan Grange for ASTRON

Come and share your experience with us