

Standing Committee for Science Priorities (CSP) status

Interop meeting 17-20 October 2022 Ada Nebot for the CSP

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Observatoire

astronomique

de Strasbourg | ObAS

□ 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

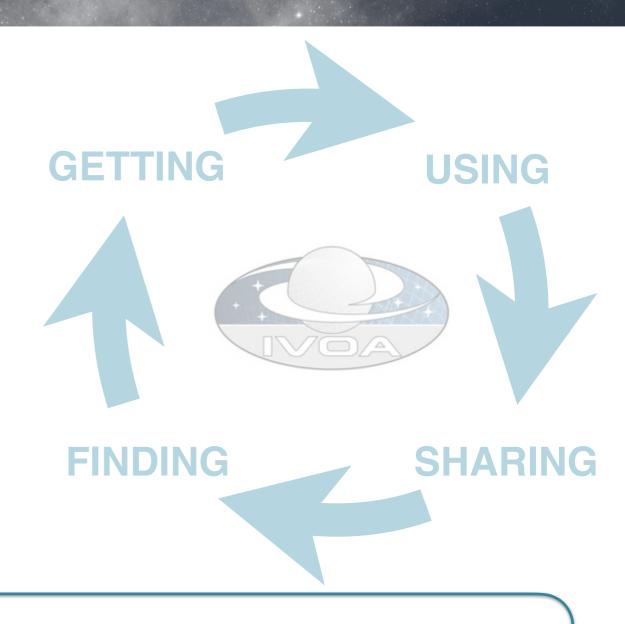
- Members: Mark Allen, Christophe Arviset, Chenzhou Cui, Raffaele D'Abrusco, Vandana Desai, Gregory Dubois-Felsmann, Janet Evans, Pepi Fabbiano, Mark Lacy, Kai Lars Polsterer, Enrique Solano
- Chairs: Ada Nebot (chair) & Francesca Civano (vice-chair)

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



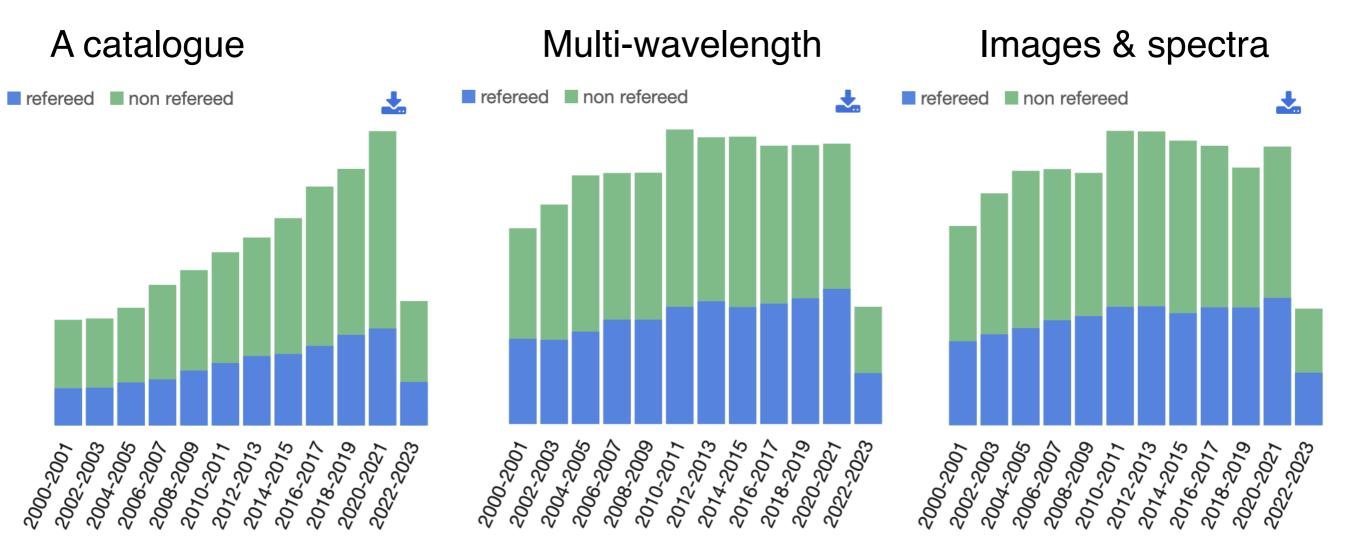
Astronomy community

 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 protocols 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

- Encourages engagement, adoption and feedback of implementations of the international astronomical community
- Support VO members in developing tutorials, technical and scientific workshops and scientific training materials.



Report back & forth

Questions we need to constantly ask

• Are we:

- building the standards, the tools and the services responding to scientific demands?
- building standards too specific or not specific enough?
- building standards simple to implement or too complicated?
- updating them too often or not often enough?
- missing types of data, areas of astronomy?
- engaging with large and small projects?
- aiming too far out or not far enough?

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CSP outlook

- Next generation missions coming up
- Which are needed upgrades to protocols to keep up with the needs?
 - Different formats from different communities PSRFITS, GADF,...
 - Different data types >> Data cubes & >> Spectra Are we ready for the exploration, visualisation and analysis?
 - Transient phenomena alert distribution is evolving, implications?
 - Extend protocols from discovery & access to data manipulation?
 - Can VO protocols & formats help ML and Al algorithms?
 - What is the role of the VO in the Cloud & Science Platforms?
 - Interoperability of science platforms?
 - Reproducibility & reusability? What is the role of the provenance data model in this context?
- Can only be achieved with community engagement —> We need you

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□ Thanks!

Looking forward to a productive meeting!

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