

### Standing Committee for Science Priorities (CSP) closing remarks

Interop meeting 08-12 May 2023 Ada Nebot for the CSP

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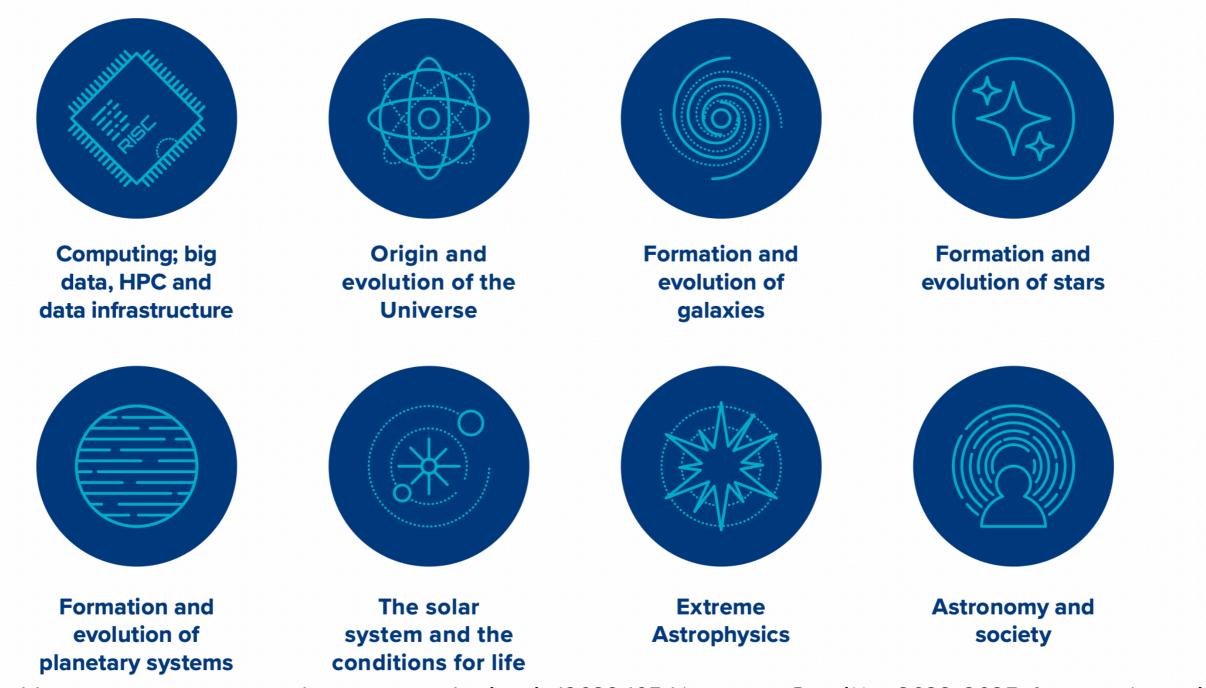




# Outline

- Motivation
- Challenges
- Priorities
- News

#### Astronet Roadmap

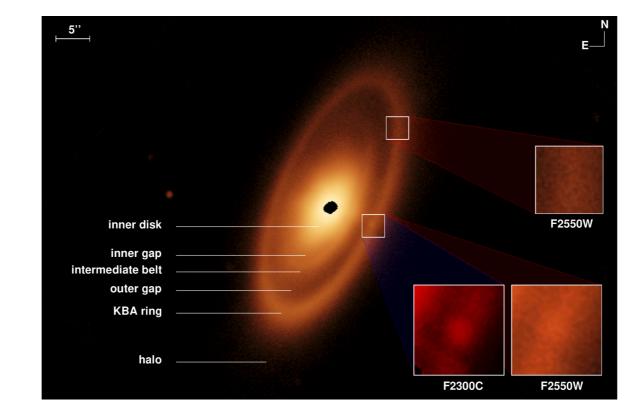


https://www.astronet-eu.org/wp-content/uploads/2023/05/Astronet\_RoadMap2022-2035\_Interactive.pdf

**Decadal Survey** 

"All priority science areas require multiwavelength observations with highly capable facilities"

- High contrast imaging
- High spatial resolution
- High spectral resolution
- High temporal resolution
- High cadence
- High performance computing
- High scalability



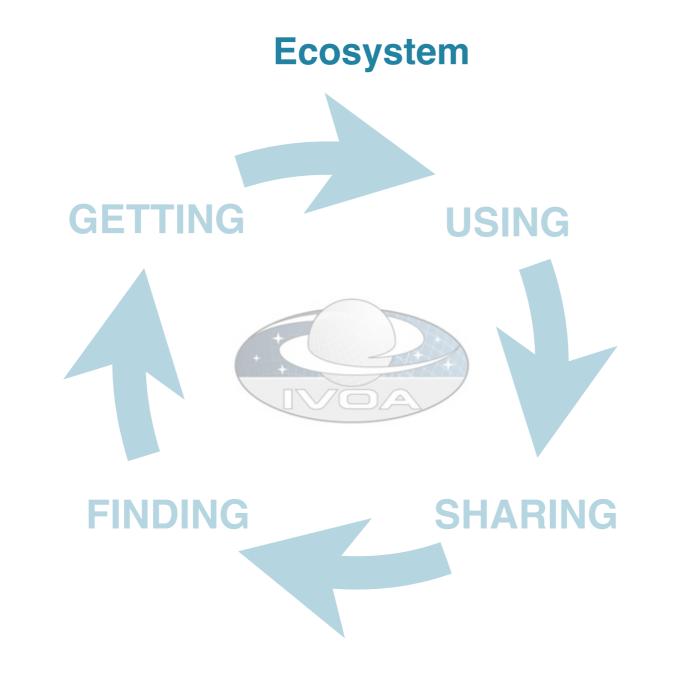
Debris Disk seen by JWST

https://arxiv.org/pdf/2305.03789.pdf

HST, Spitzer, Herschel, ALMA -> asteroid-analog structure

JWST / MIRI —> broad extending outward into the outer system + there is an intermediate belt, probably shepherded by an unseen planet

It is through the combination of data that we get a full picture of the physics in the Universe



#### **Building the technology and the standards**

## Challenges

- Engage with large and small projects
- Ensure IVOA is building standards, tools and services responding to the large variety of science cases
- Ensure right balance for these standards
  - Not too generic, not too specific
  - Implementable standards, while not too simplistic
  - Need for new standards, or updating existing standards
  - Addressing new data types, new areas in astronomy

### Some identified priorities

- Science platforms
  - Interoperability Can I use my code here as well? Metadata requirements to support discovery and execution
  - Scalability to users needs
  - Security provide access to the right users
  - Cloud technical implications of using commercial solutions
- Increasing community distributing mocked data (spectra, images, cubes, tables) and simulations.
  - Follow-up on this topic is much needed.
- It is not easy to register the services
  - Can we improve the situation towards the next interop?
- Community engagement
  - More contributors are always needed
- Evolve the newcomers sessions from technical to informative
  - Where do I look for information? Is there a summary somewhere?
  - Where are the mailing lists and how do I register?
  - Ok, what are the groups that I should be looking into?
  - We should keep it in mind as well for the new website

## □ The CSP

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

- New member of the CSP !
- Welcome to Rachana Bhatawdekar :)



- https://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaSciencePriorities
- Want to take part? <u>csp@ivoa.net</u>

### □ The VO & the IVOA

"Big data - Big code - Big community" - Science Platforms session I "Implement things that make life easier" - Science Platforms session II



### THANKS !!

#### Keep up the good work!

See you in Tucson!