

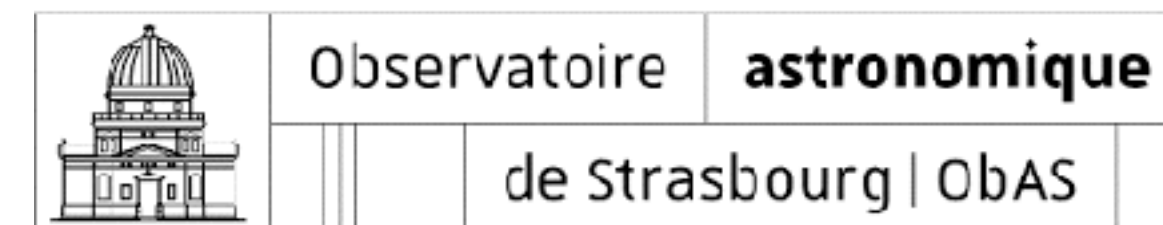


Publish your data in the VO



Interop meeting 25-29 April 2022

Ada Nebot, Francesca Civano
and the CSP of the IVOA



□ Purpose of the Survey & the Panel

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.

The Survey

- Sent on the 21st February and collected responses until the 25th March
- Translated into Chinese! Thanks a lot for that Chenzhou Cui!
- The estimated duration to complete was about 5 minutes

- A set of questions were asked grouped in three blocks:
 - Project information
 - Data products and archives
 - Data Usage and Interoperability
- A set of free text fields were given to allow for sharing other relevant information
- For further interactions it was possible to share a contact point

□ A total of 45 responses! Thank you all!

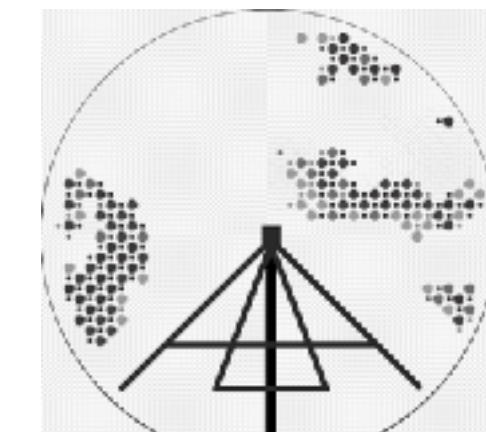
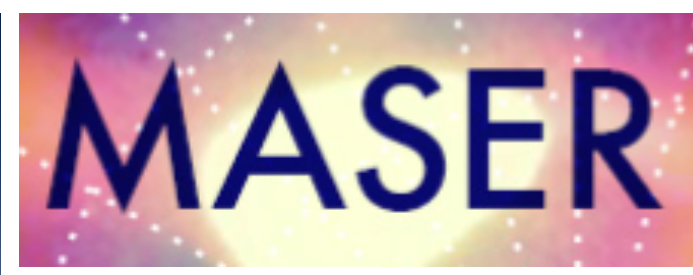


MONET

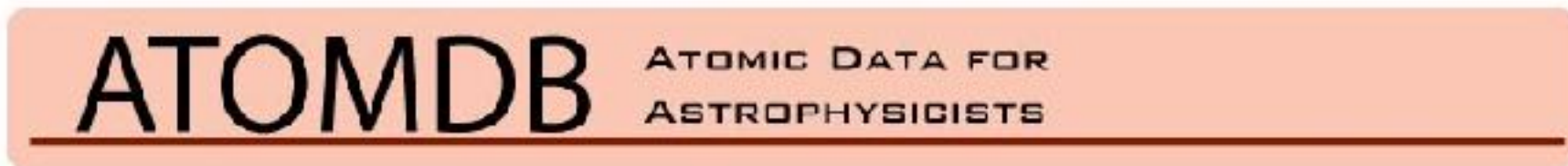


BaSTI

a Bag of Stellar Tracks and Isochrones



Large Millimeter Telescope Alfonso Serrano



SETI

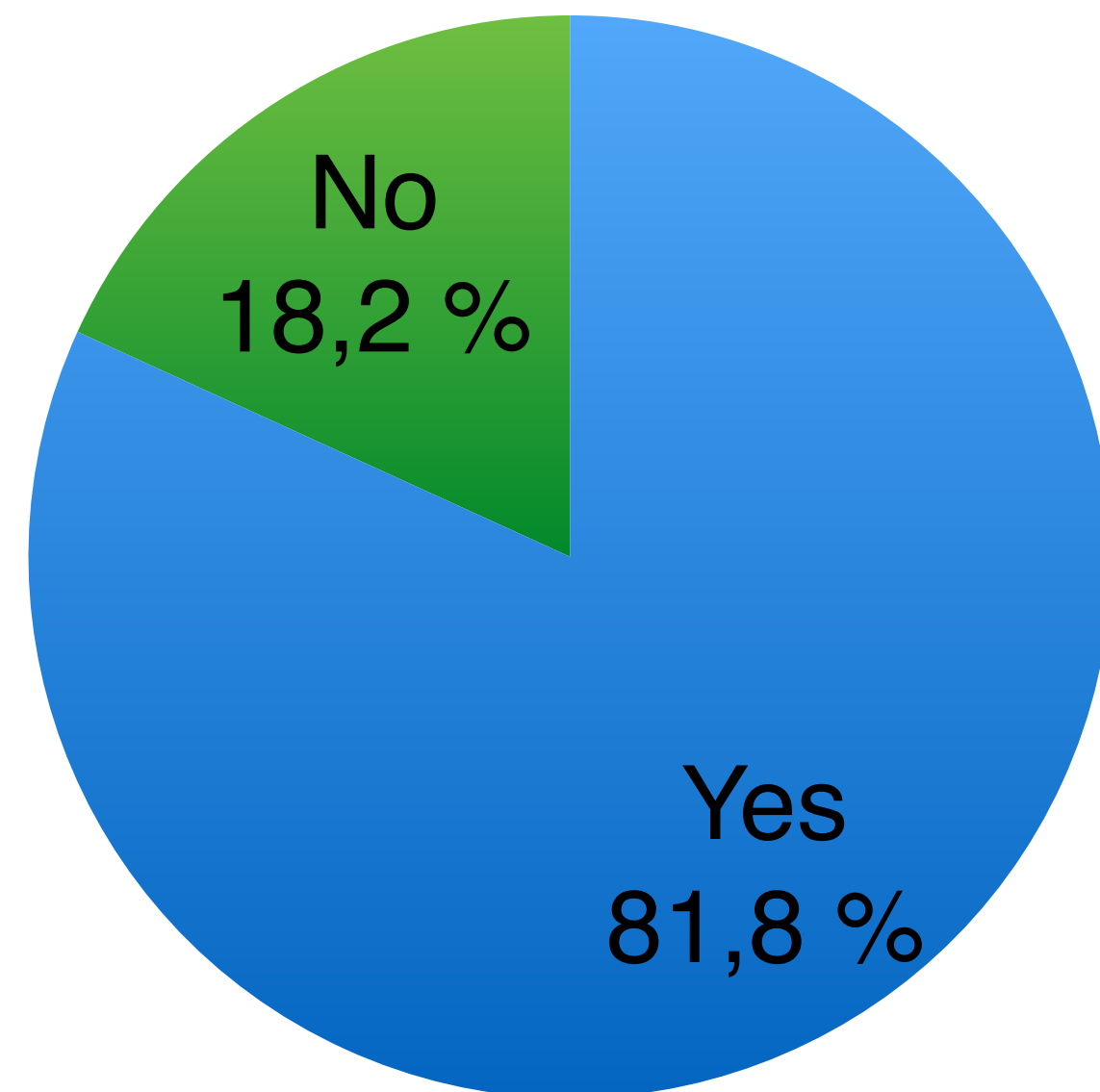


Exo-MerCat MICADO VIOMASS CCHP ELM

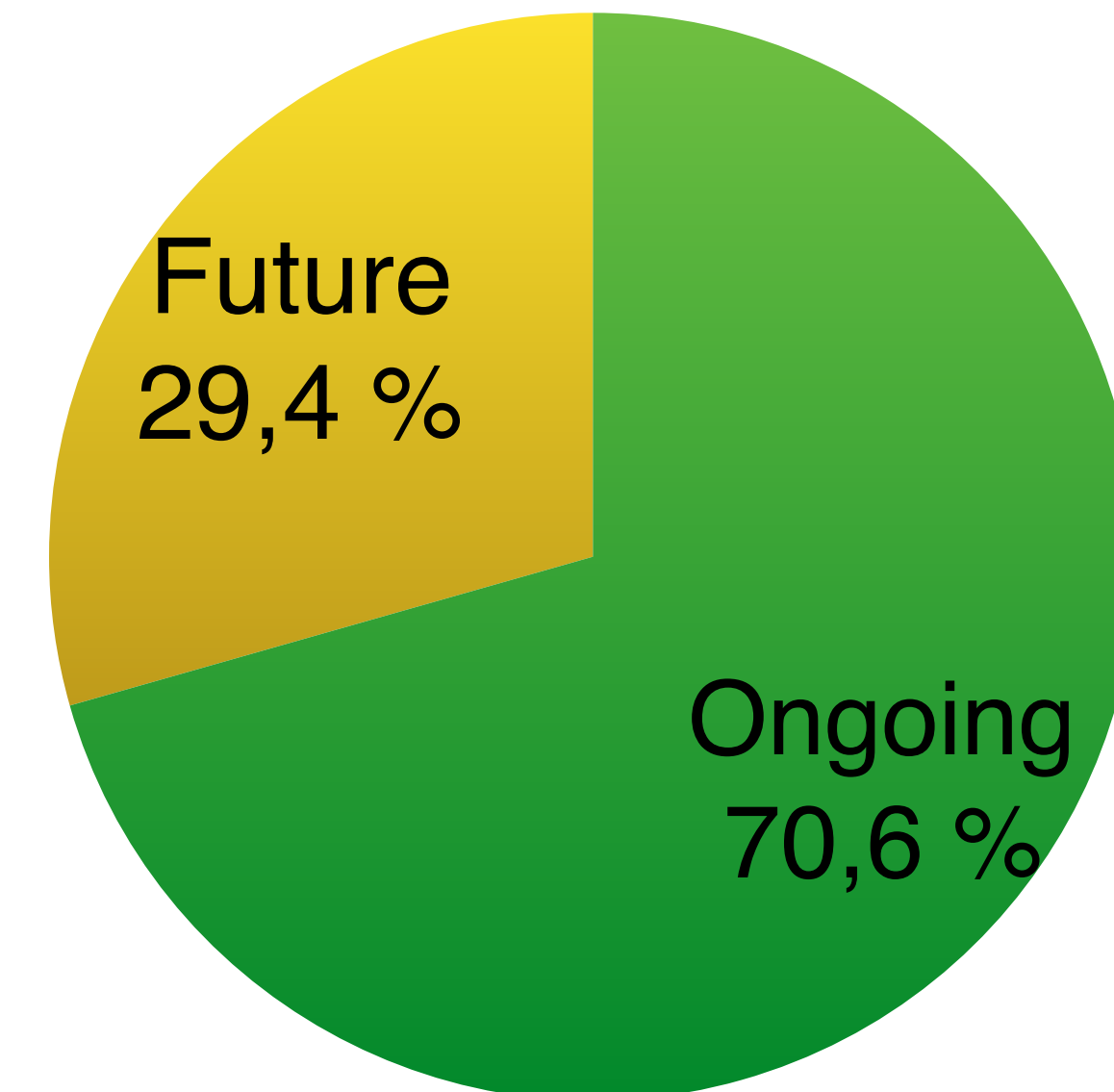


Project information

- Is there more than one institution involved in your project?

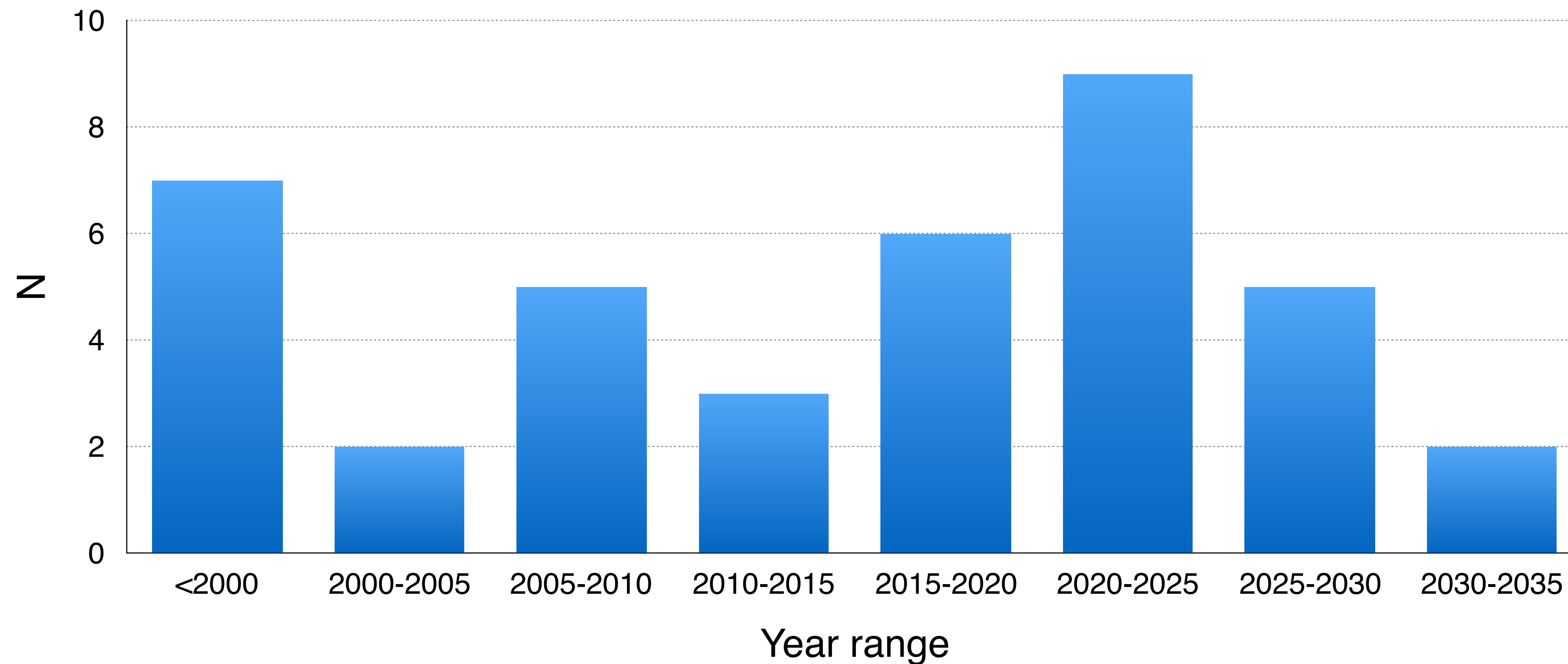


- In what phase is your project? (past, ongoing or future)



Project information

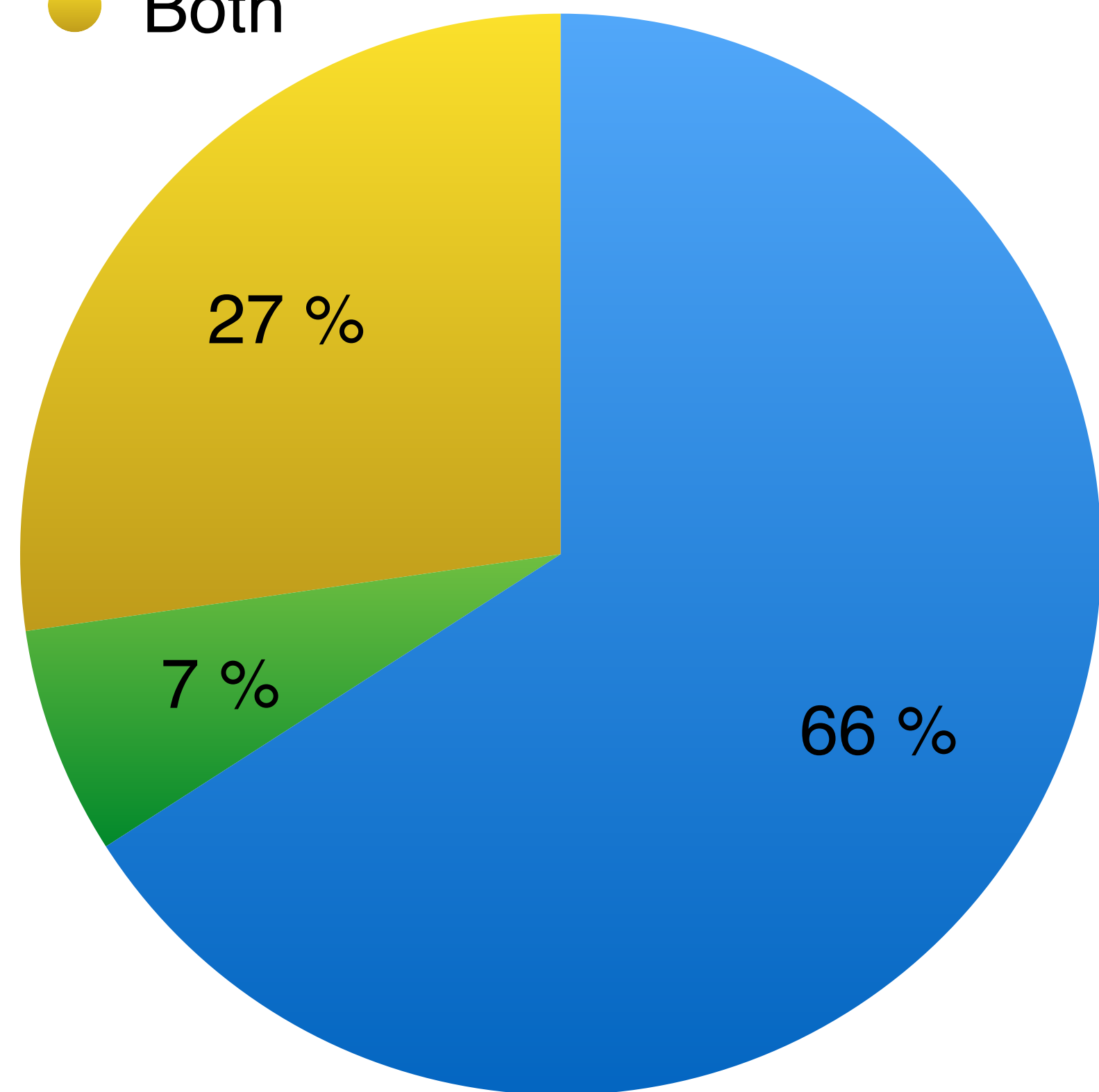
- When was / is first light of your project?



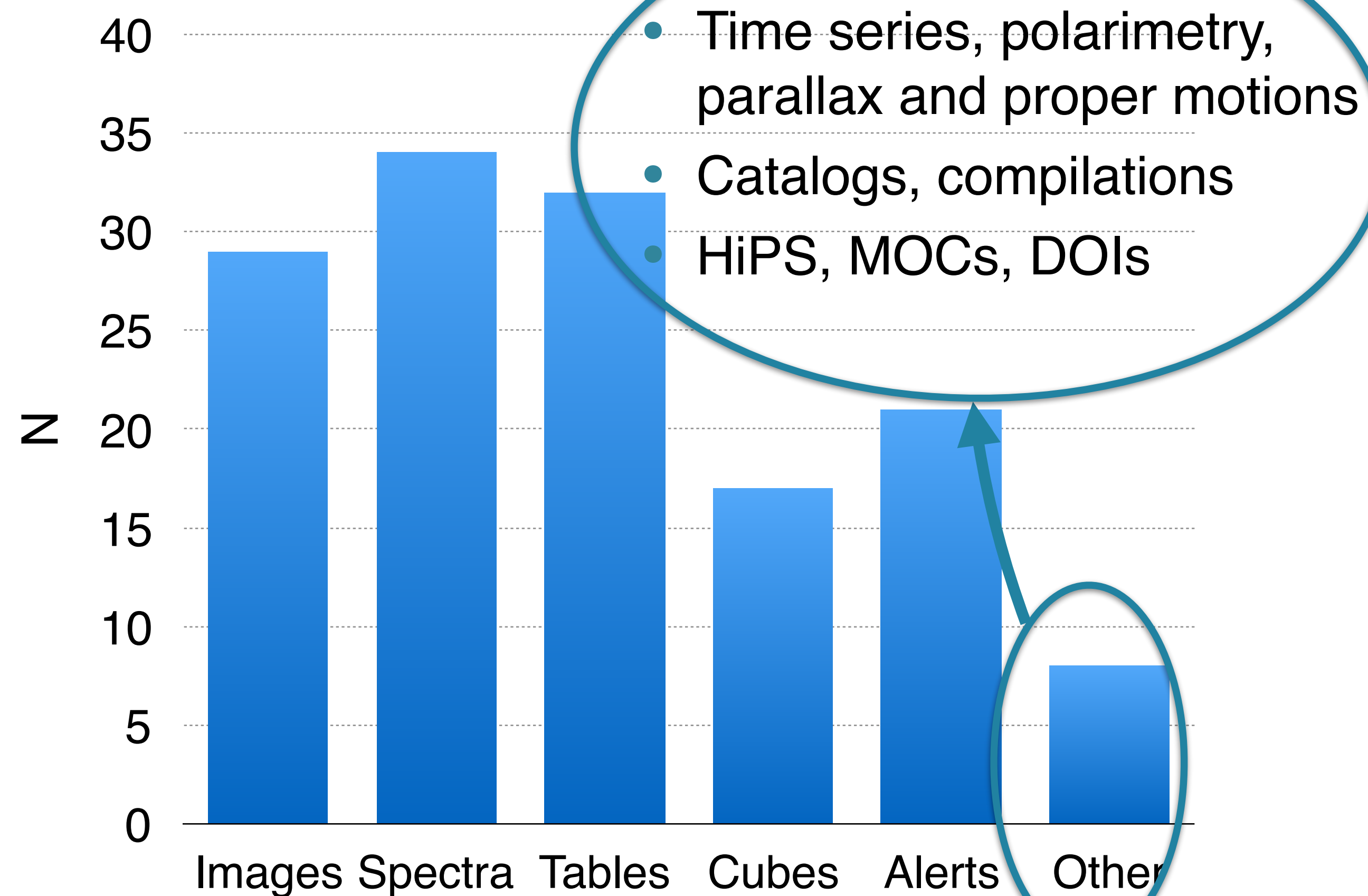
Data products and archives

- What are the main products of your project?

- Observations
- Simulations
- Both



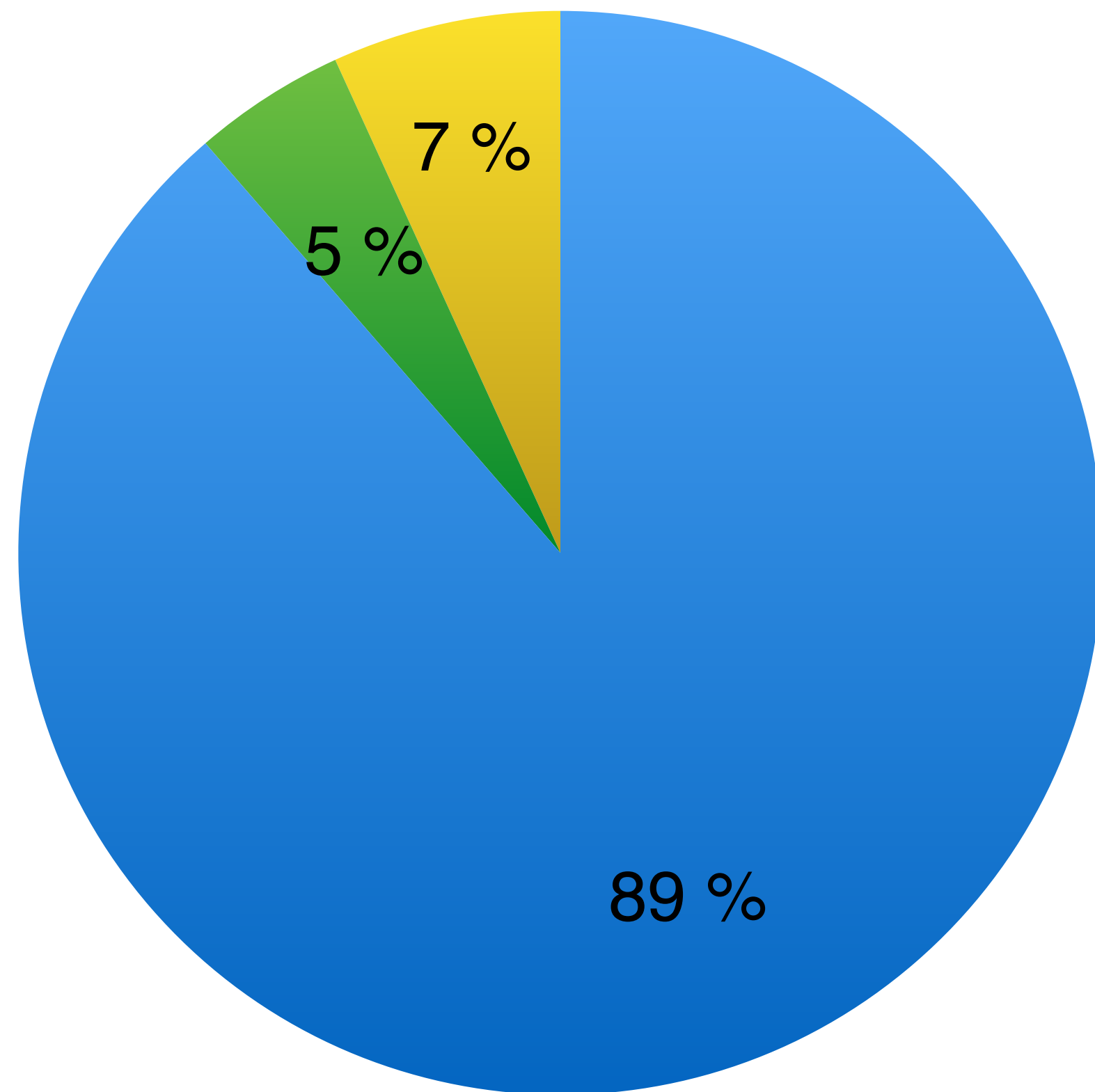
- What are the data product types of your project?



□ Data products and archives

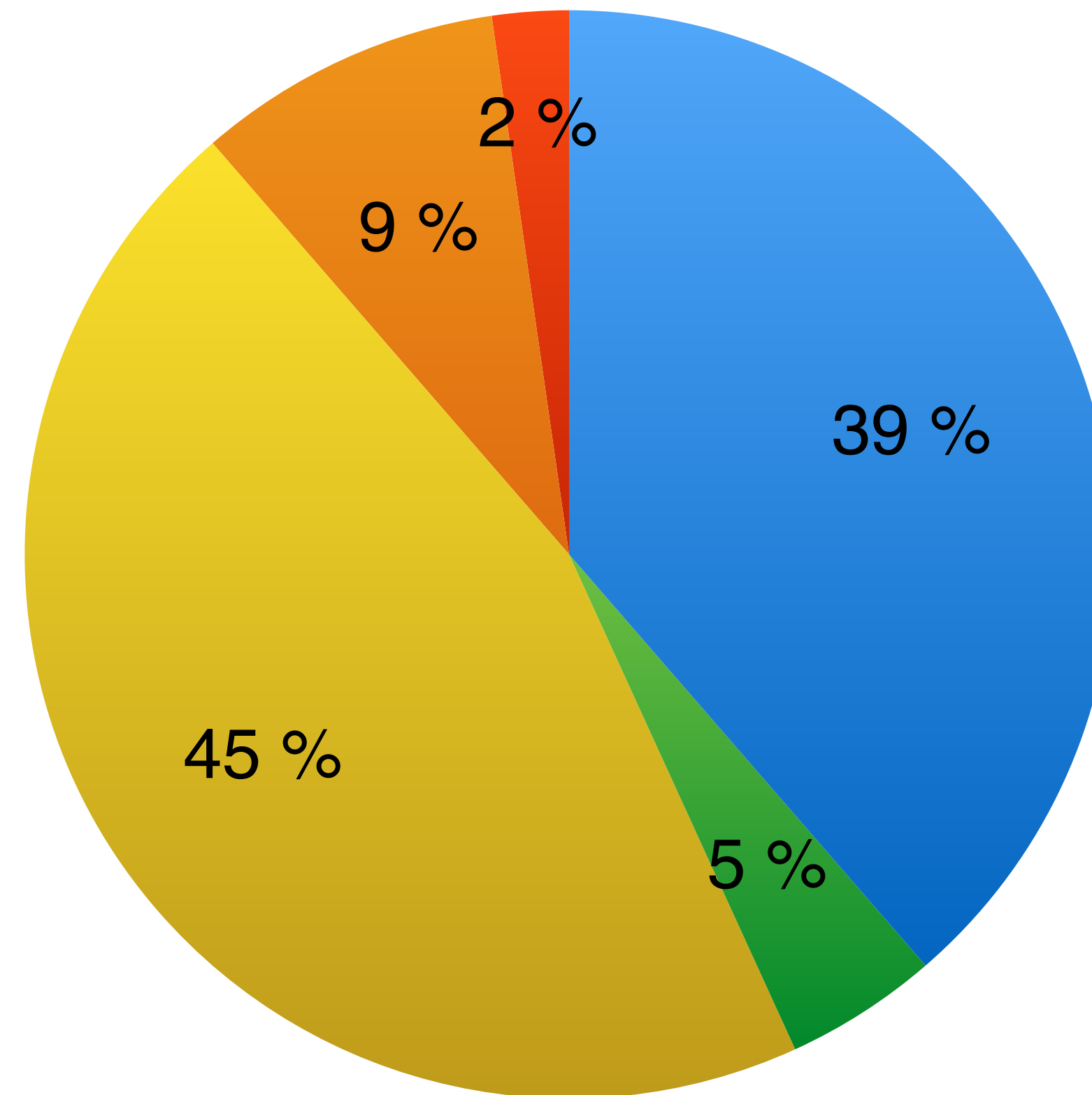
- Does your project have an archive?

● Yes ● No ● Unsure



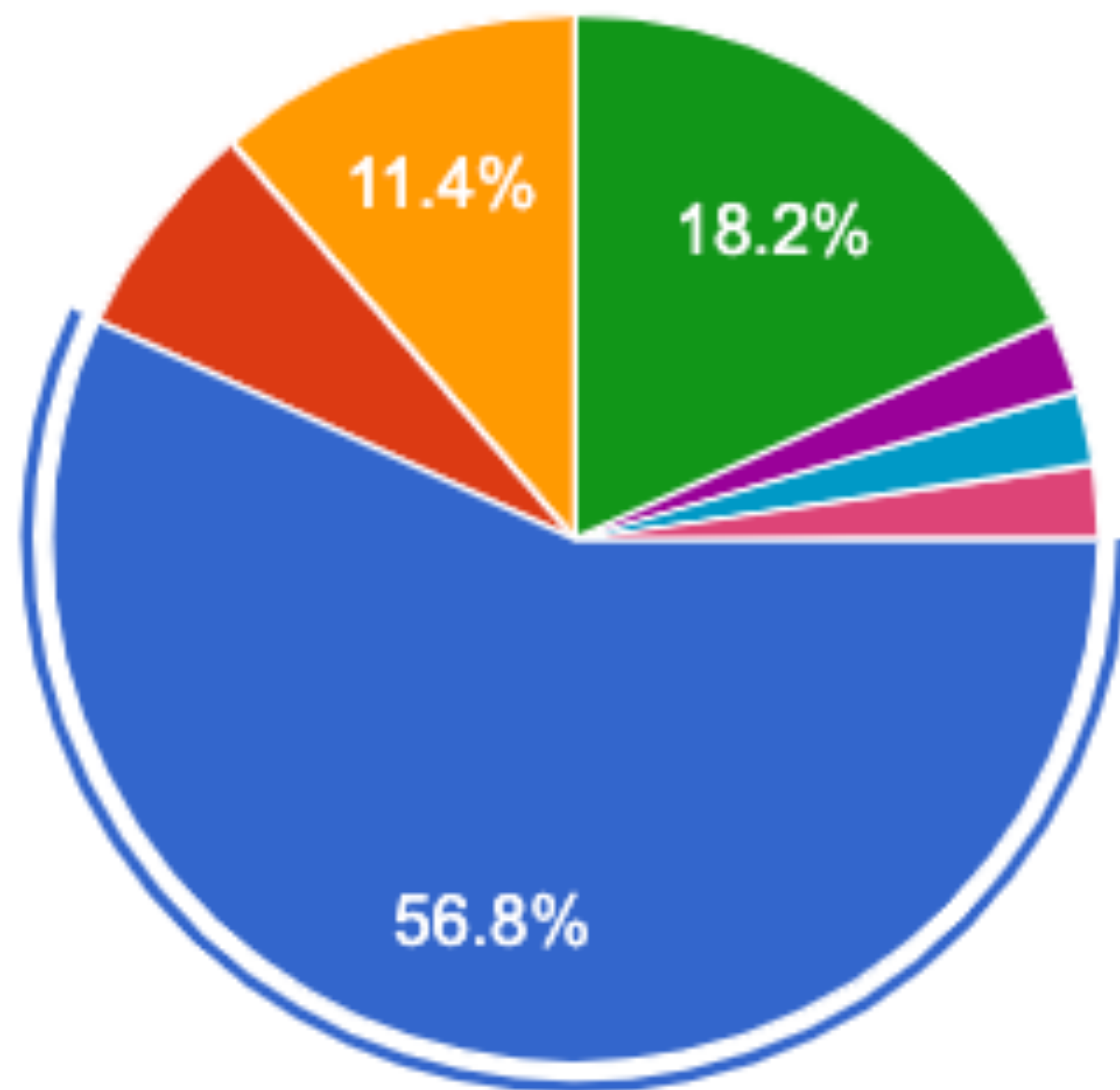
- If yes, is it or will it be a public archive?

● Yes
● No
● Both, public & private
● Unsure
● N/A



□ Data products and archives

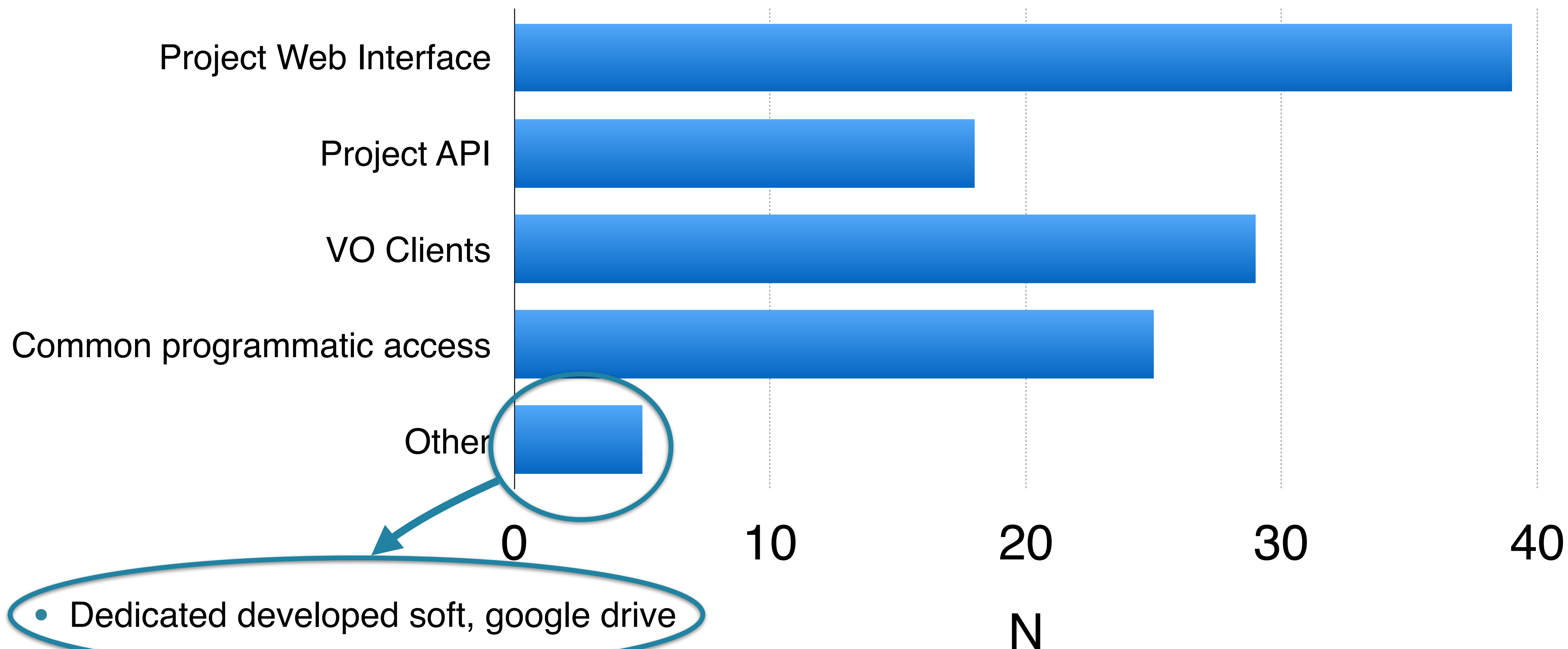
- Does your archive have proprietary data, or otherwise require authenticated access?



- Yes, we have proprietary data
- We do not have proprietary data, but all users have to be authenticated
- We do not have proprietary data, but additional services are available to aut...
- No proprietary data and no authentication
- Unsure
- Not decided yet.
- There will be proprietary data products...

□ Data usage and interoperability

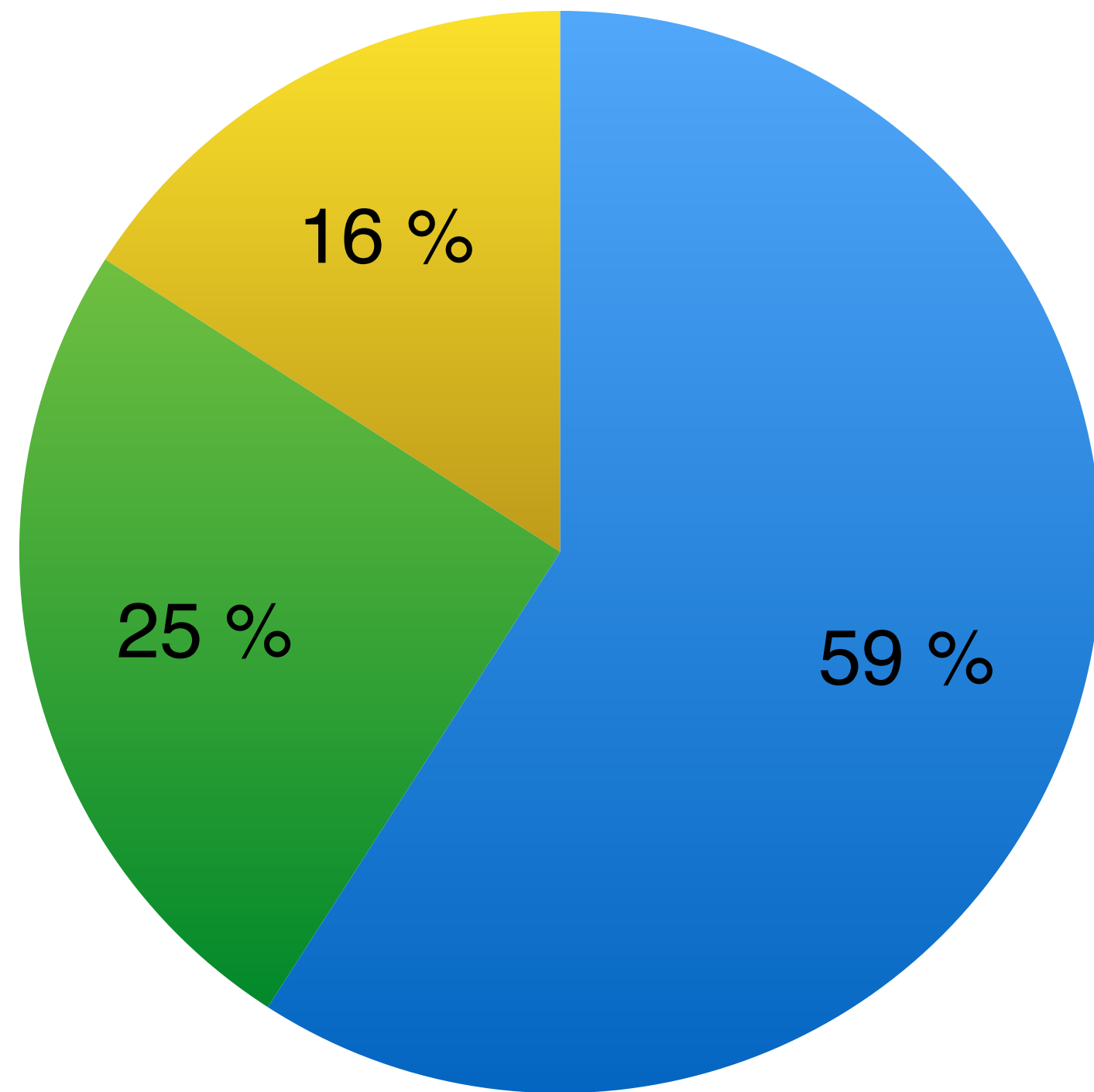
- How do you envisage scientific users accessing your data?



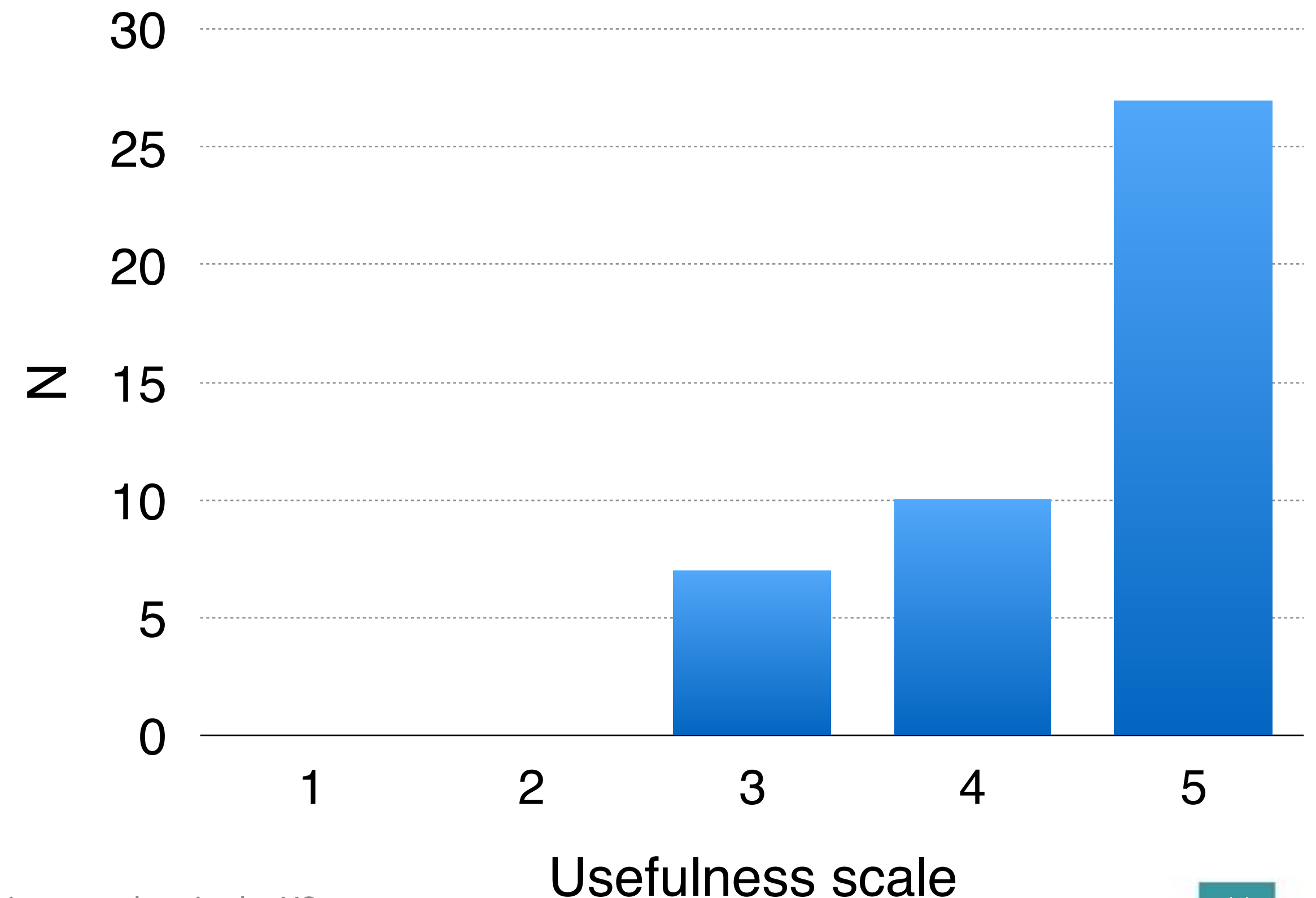
□ Data usage and interoperability

- Is interoperability with your data and the data of other projects a requirement of your project?

● Yes ● No ● Unsure

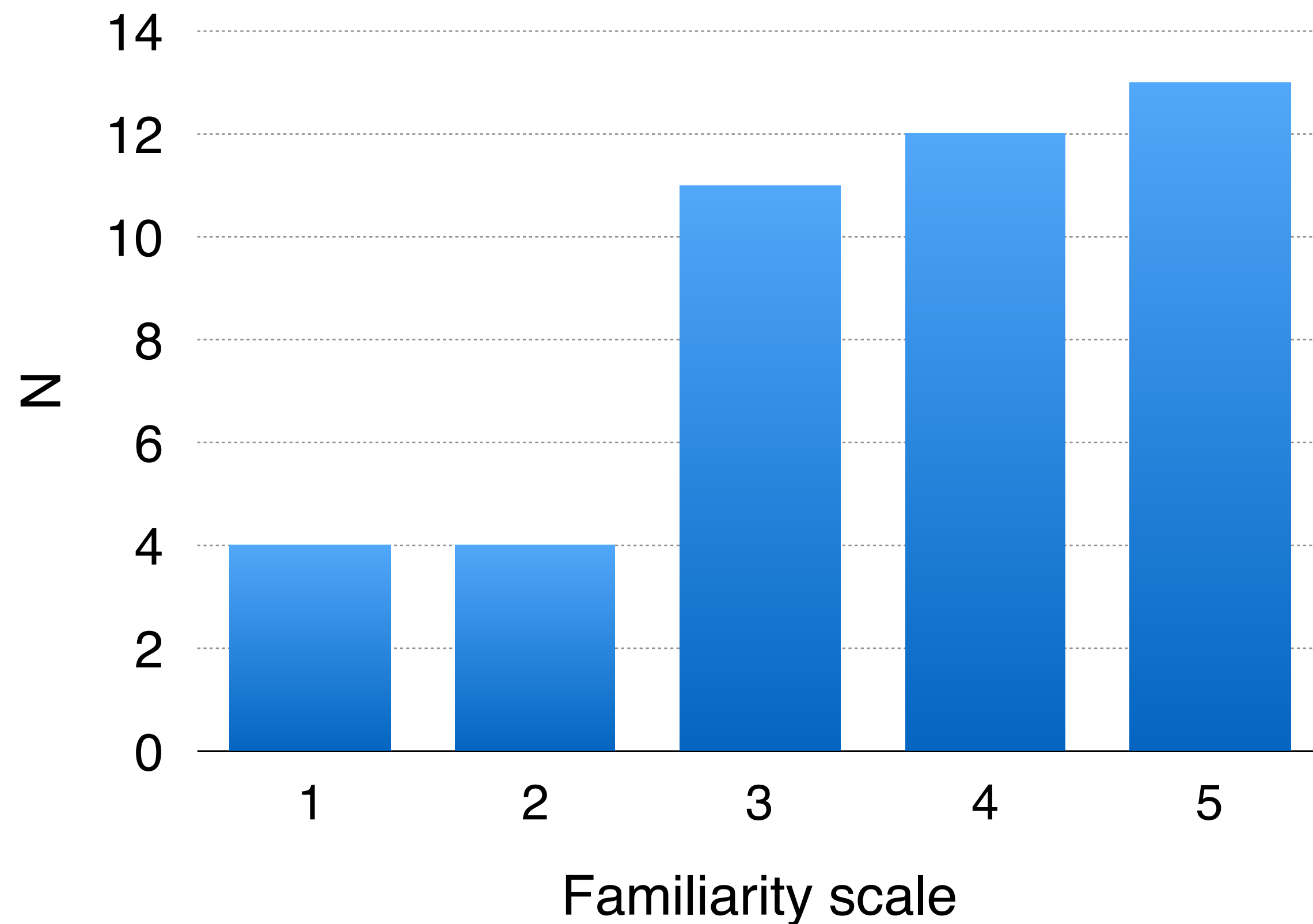


- How useful do you think it would be for researchers if you data were interoperable with other data sets?

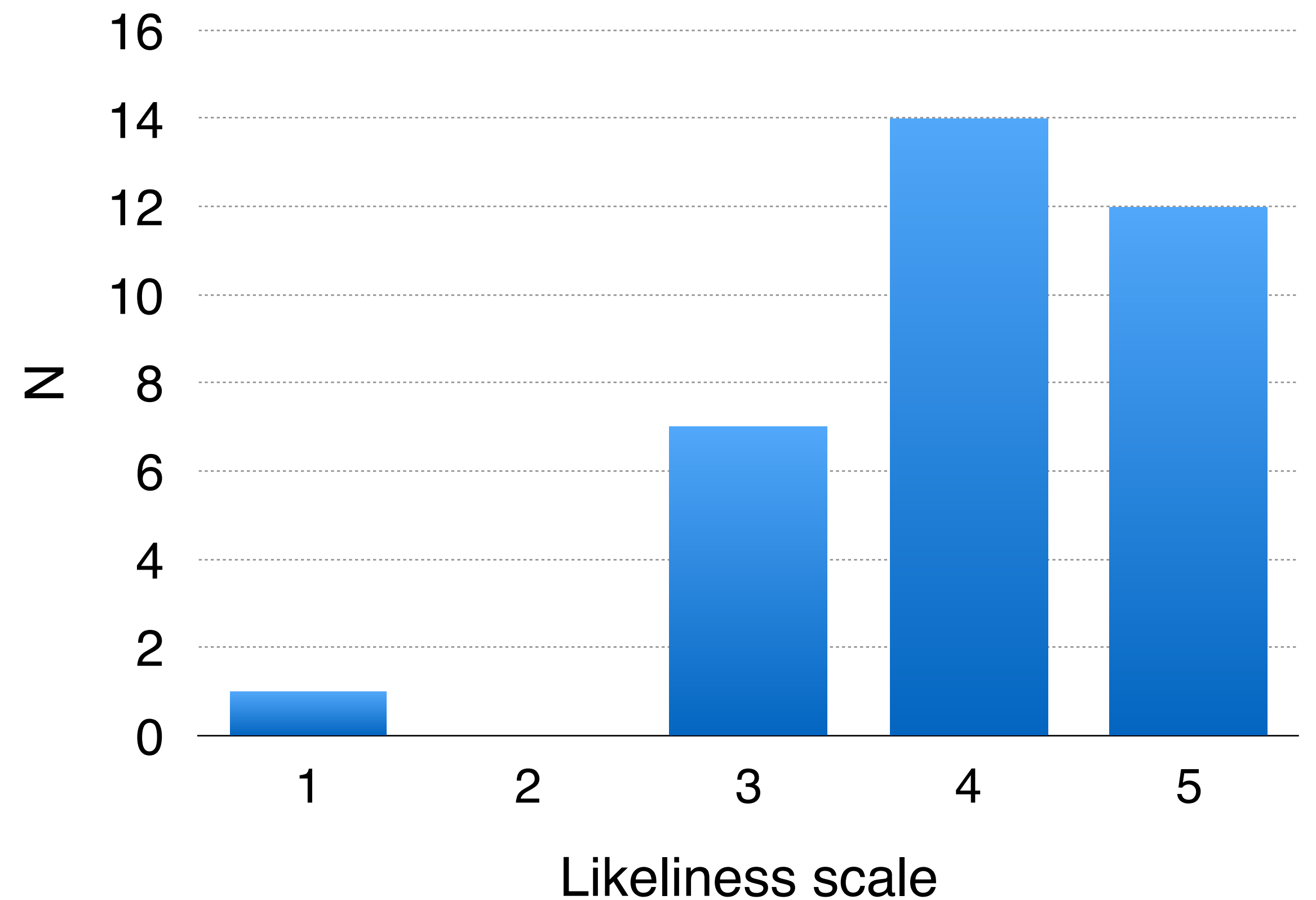


□ Data usage and interoperability

- How familiar are you with the VO and the IVOA?



- How likely is it that your project will use interoperability IVOA standards?



□ Take away messages

- **Project information**

- Worldwide coverage of responses from projects. The number of projects picks around today's ongoing missions, but with a long tail of past and future projects
- Multi-institution projects dominate the landscape

- **Data products and archives**

- 2/3 of the projects deal with observations, 1/3 with simulations or both (obs + sim)
- Each project delivers a wide variety of data product types. Lots of missions providing spectra.
- A large number of projects have both public and private access (45%) requiring authenticated access

- **Data usage and interoperability**

- Access to the data is expected to be done in various ways but mostly through project web interface followed by VO clients
- For a large number of projects (60%) interoperability is a requirement
- Projects consider interoperability to be useful to very useful
- Most of the projects are familiar with the VO and the IVOA and will likely use interoperability IVOA standards

☐ General comments

- Sometimes not sure how to share certain types of data
- Journal engagement is not visible enough
- Some protocols need upgrades to be used by the coming missions
- Extension of protocols towards data manipulation would be beneficial
- Funding for making archives VO-compliant is hard to get

Our panelist might have dealt with some of these issues!

□ The panel

Dongwei Fan	LAMOST and the China Virtual Observatory
Tamara Civera	Observatorio Astrofísico de Javalambre: VO Services
Alberto Micol	European Southern Observatory
Yan Grange	ASTRON - Netherlands Institute for Radio Astronomy
All	Open discussion

A set of questions where given to the panelist

- What are your data products and the data distribution plans of your project?
- Which IVOA standards do you make use of and do you plan to use others in the future?
- Where and how did you start from and what where the difficulties you encountered?
- Are there any IVOA standard protocols missing or not sufficiently described for you to make use of them?
- Would you have done something different if you were to start the process again?