



# Shaping ESO2020+

# Together

ESO in the 2020s / 19-22 Jan 2015

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*On behalf of the ESO in the 2020s WG*





# The Community Poll

*From the Terms of Reference of ESO in the 2020s WG*

- The panel will organize a major ESO workshop in 2015 January to look at the likely astronomical landscape in the 2020s, inviting the community to advise the ESO Executive with regard to future facilities, including but not limited to LSP and the Joint ALMA Observatory.
- The panel's recommendations will be presented to the Scientific and Technical Committee (STC) of ESO Council.
- The review will take into account the views of the ESO community via an electronic poll, and via cross-membership in the Visiting Committee (VC), Users' Committee (UC) and STC of five (of 13) panel members.

**Poll results will be made publicly available**

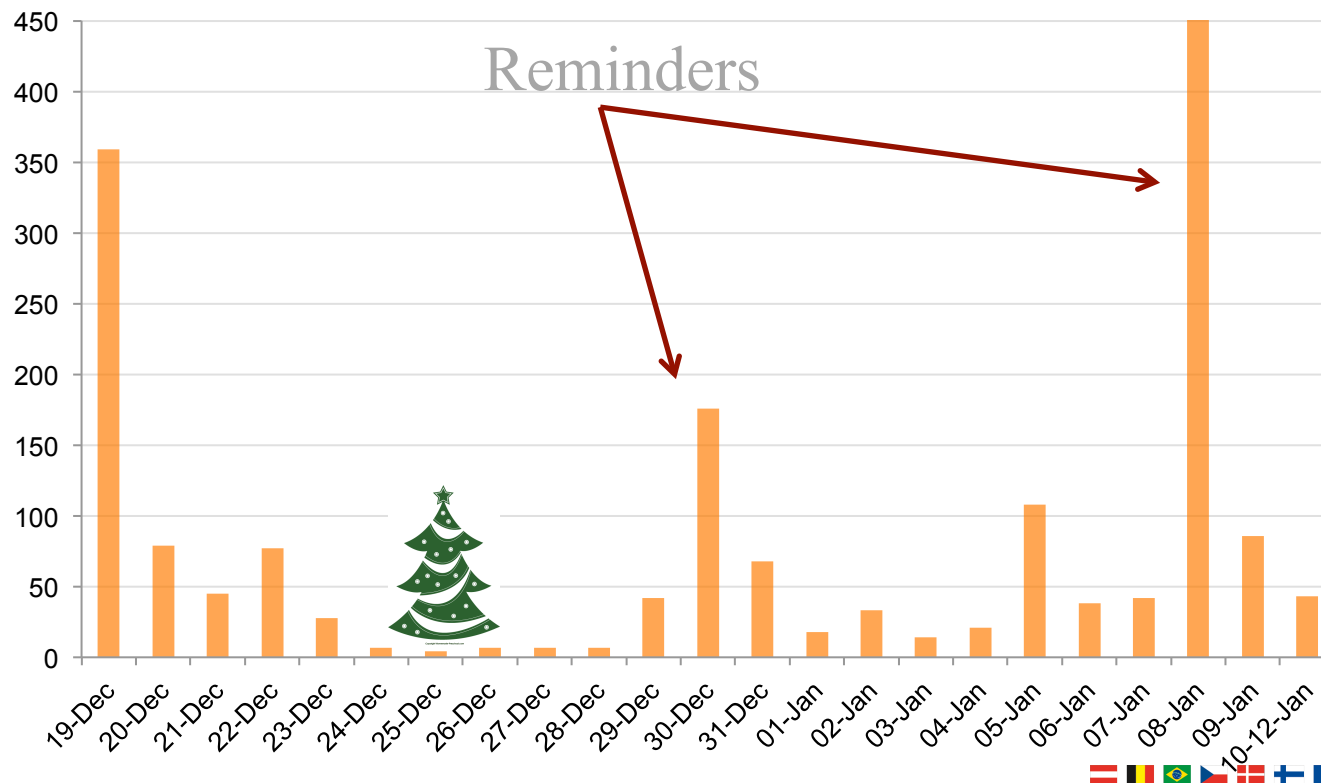
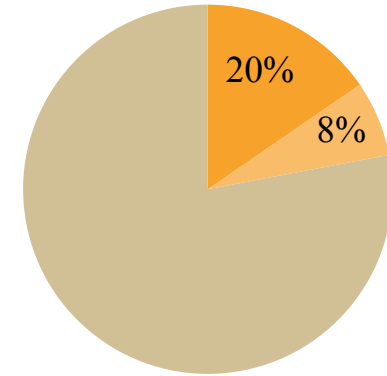


# Basic facts

Anonymous

8914 targeted users (ESO+ALMA Portals, professionals)

2517 responses



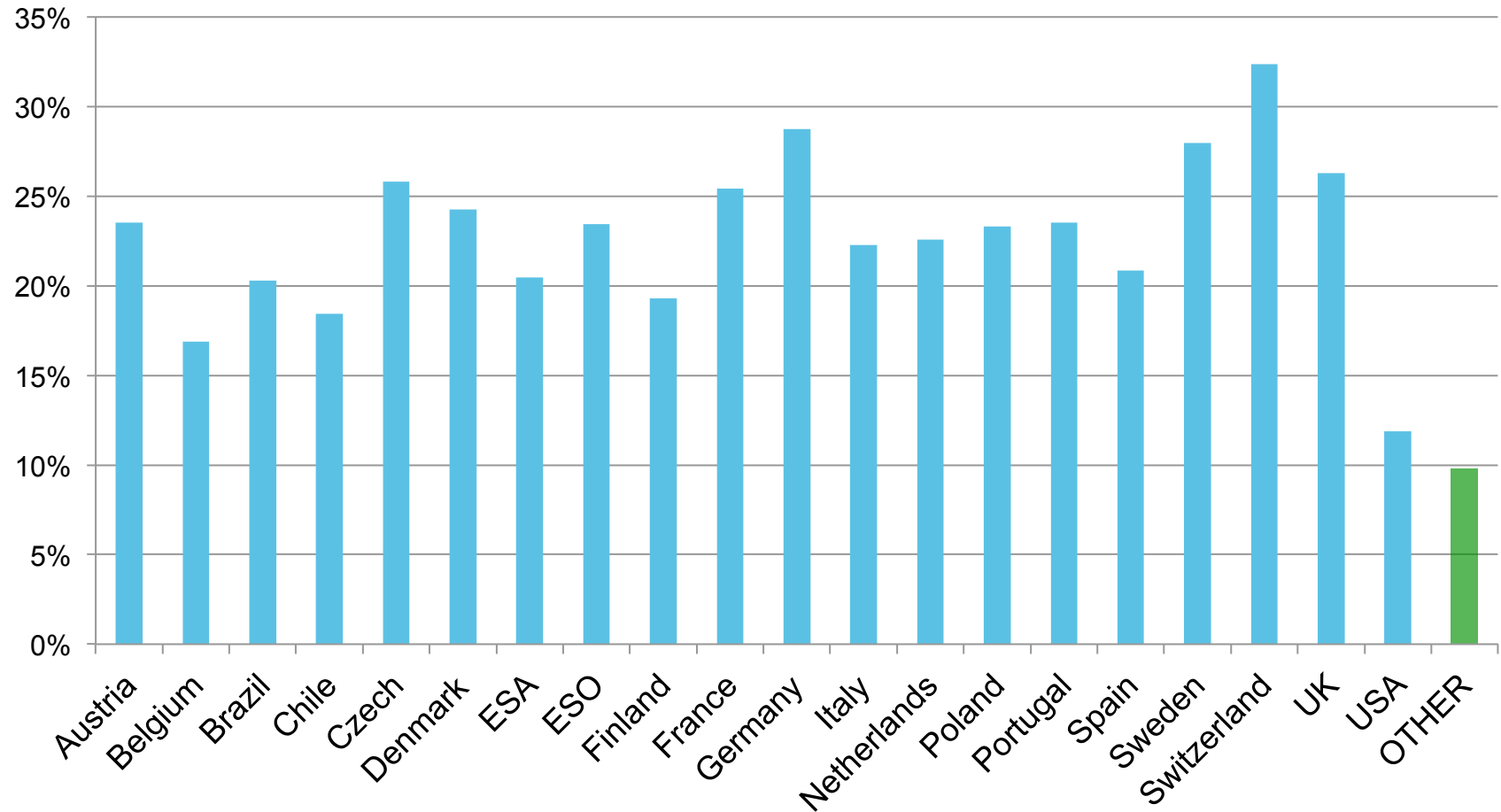
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# Demographics

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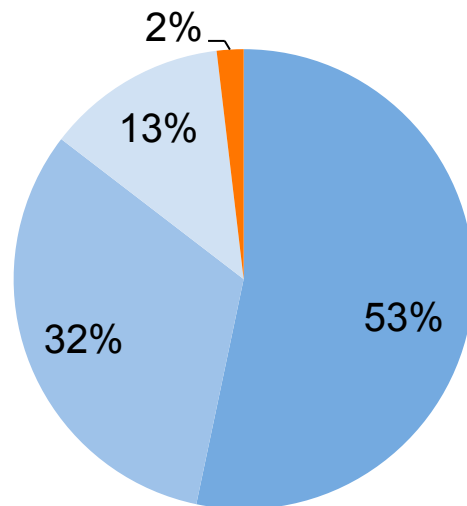
Participation rate per country



# Profiles

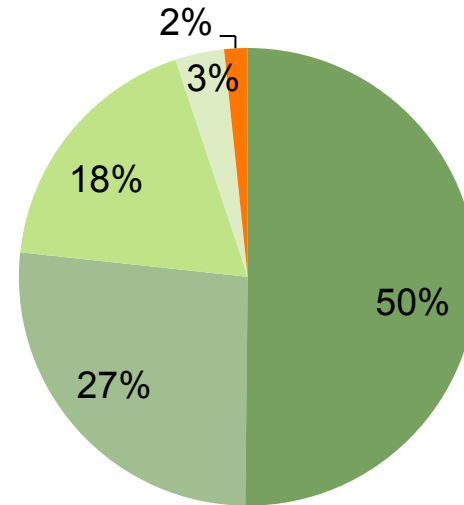
## Position

- Faculty/Researcher
- Post-doc
- Graduate student
- Other

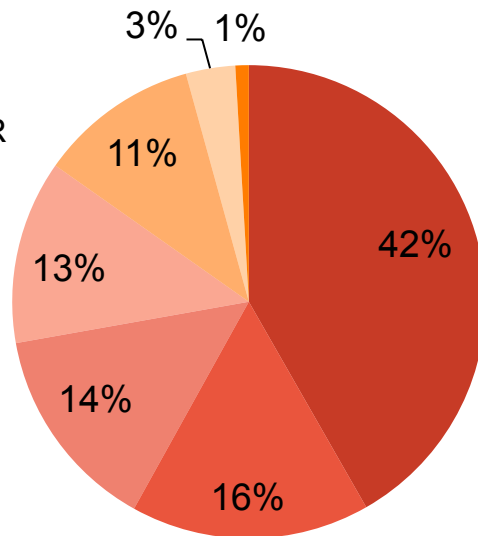


## Institute

- University
- Research Institute
- Observatory
- Laboratory
- Other

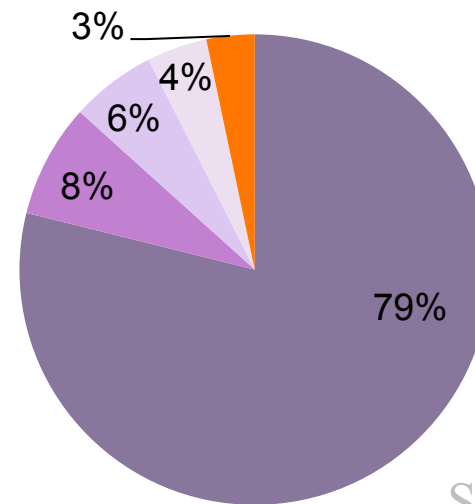


- Optical/Near-/Mid-IR
- mm/sub-mm
- UV/Near-UV
- Radio
- X-rays
- Gamma-rays
- Other messengers



## Scientific focus

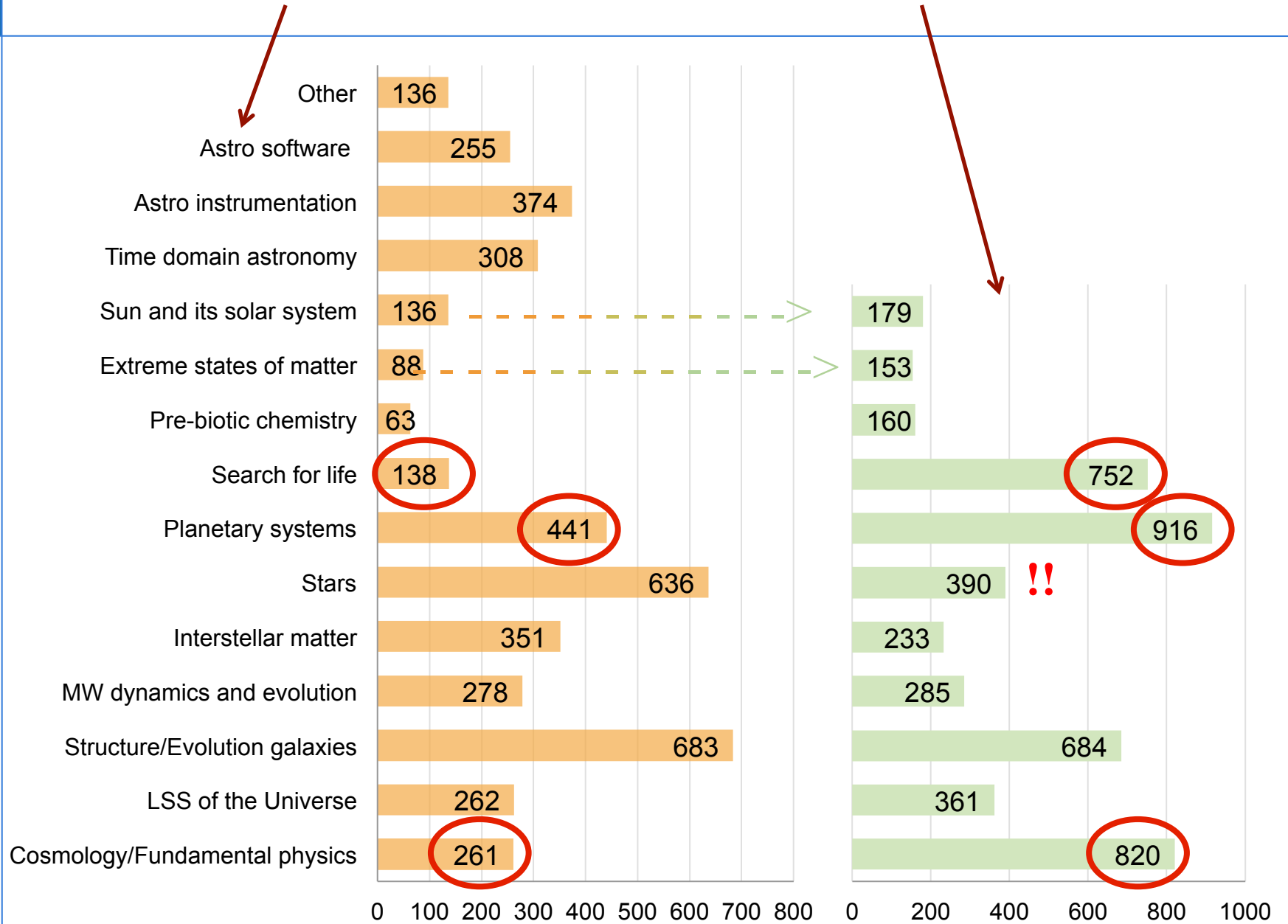
- Observations
- Instrumentation
- Theory
- Simulations
- Other



## Wavelength domain

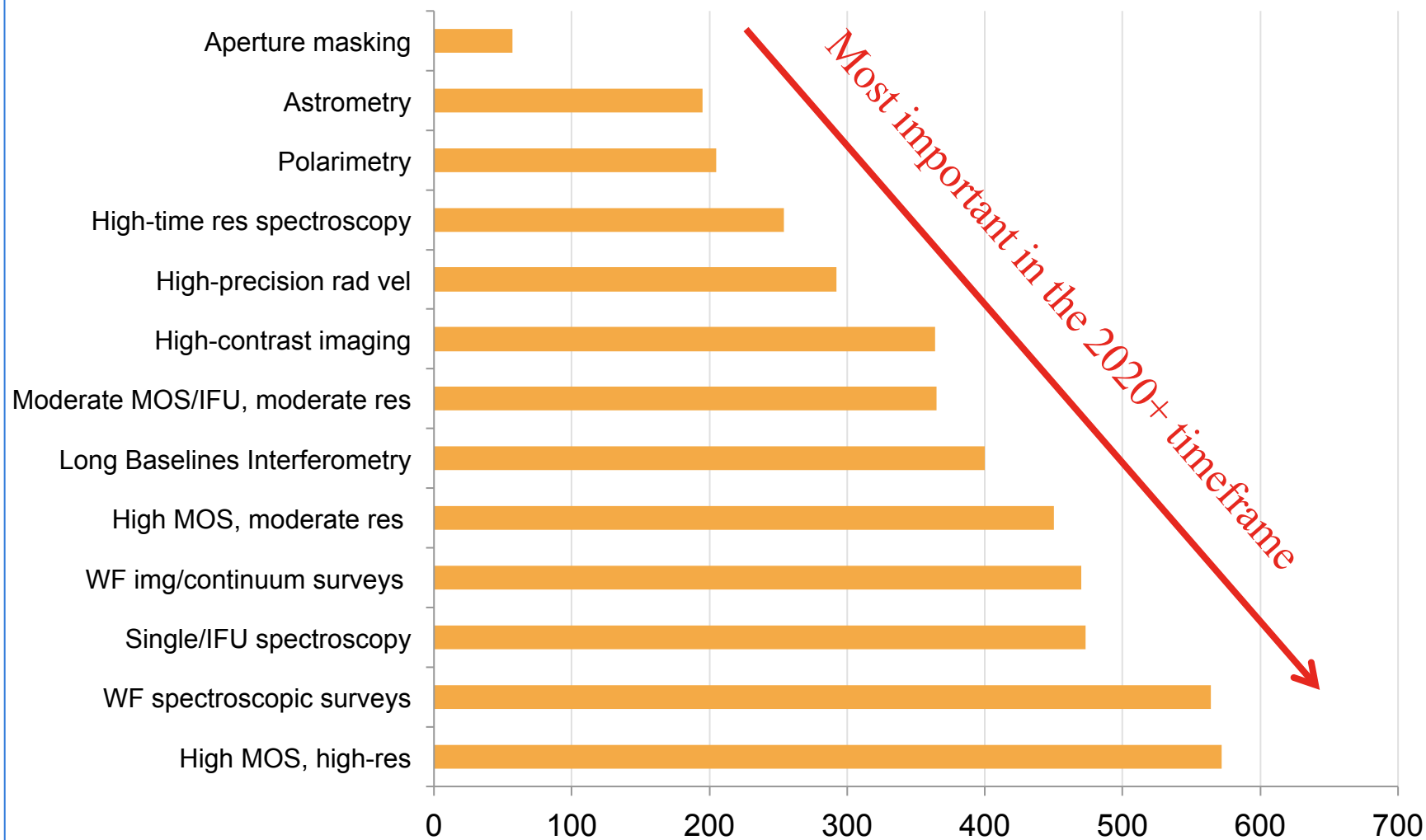


# Research interests vs science vision





# Present and future observing facilities



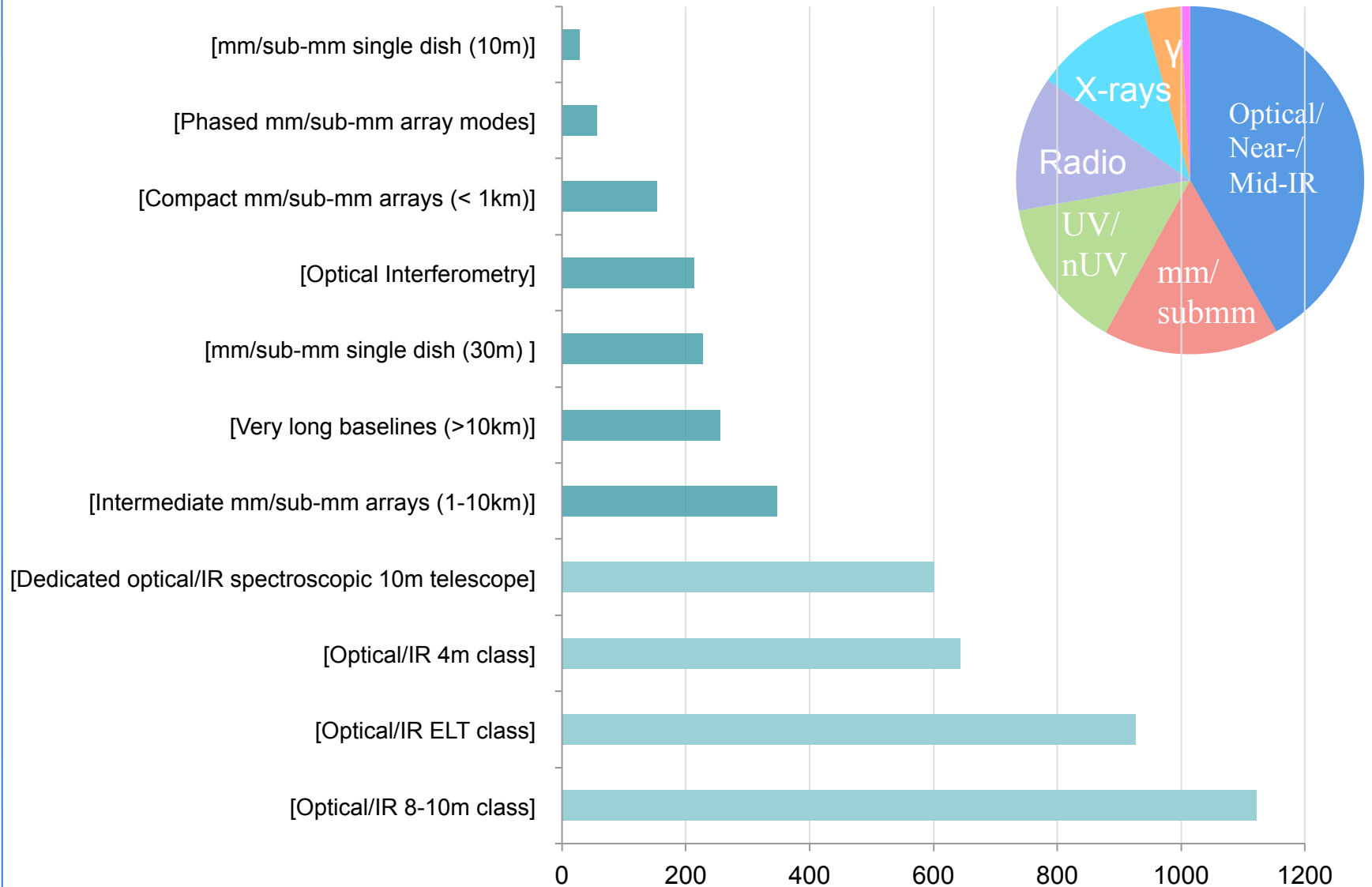
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4661 answers received in total





# Required facilities



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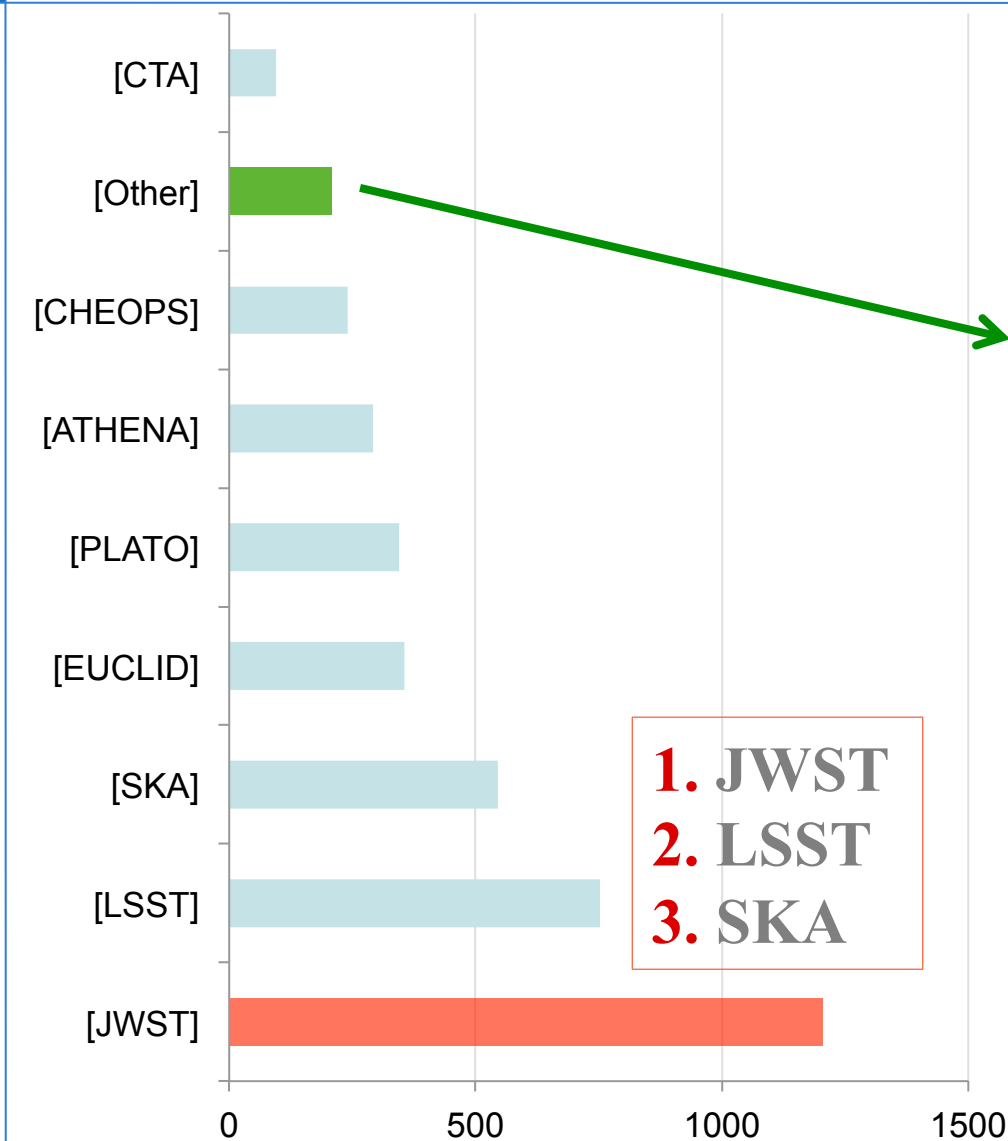
4575 answers received in total







# Other planned facilities



1. JWST
2. LSST
3. SKA



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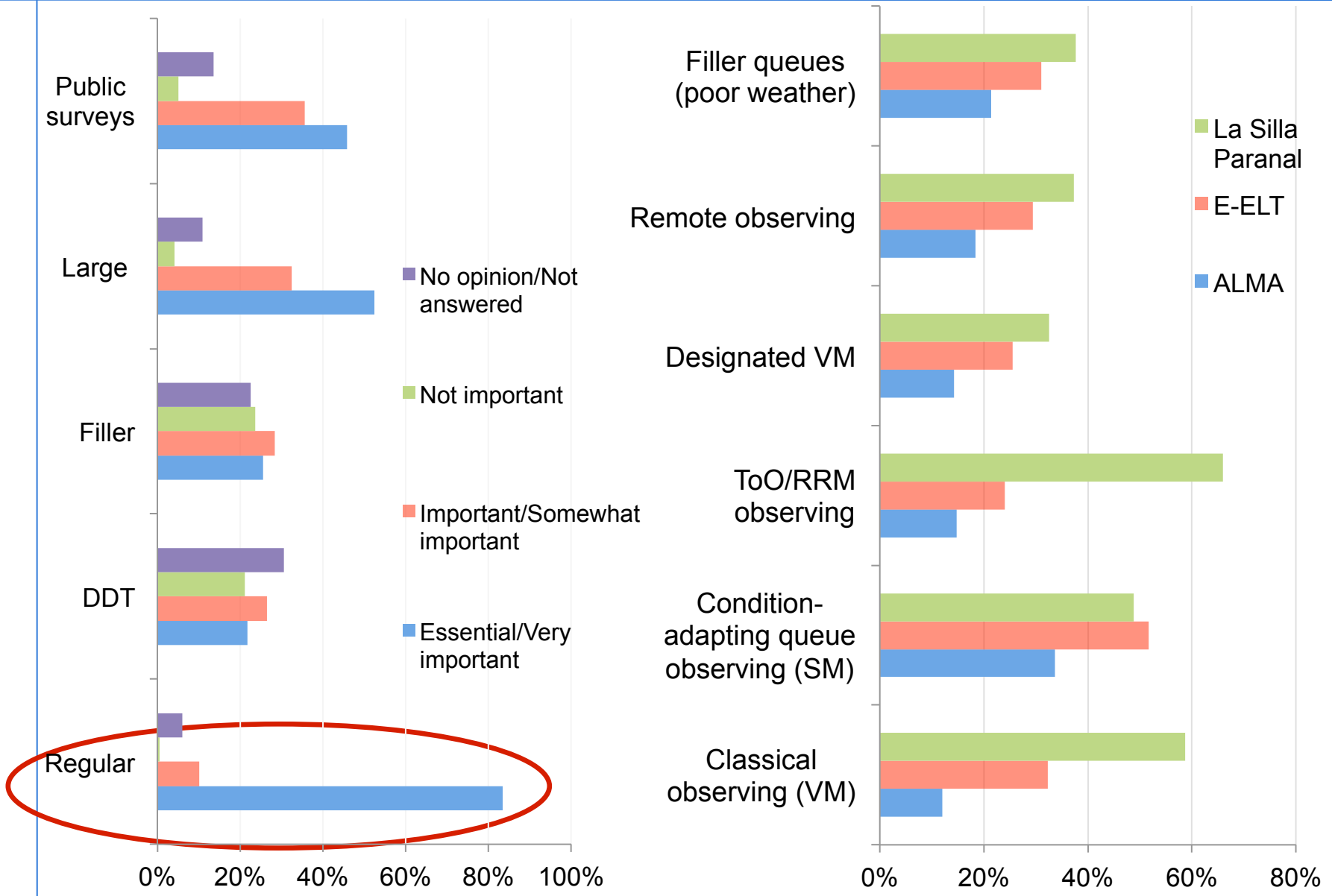
4039 answers received in total





# Observing programmes & modes

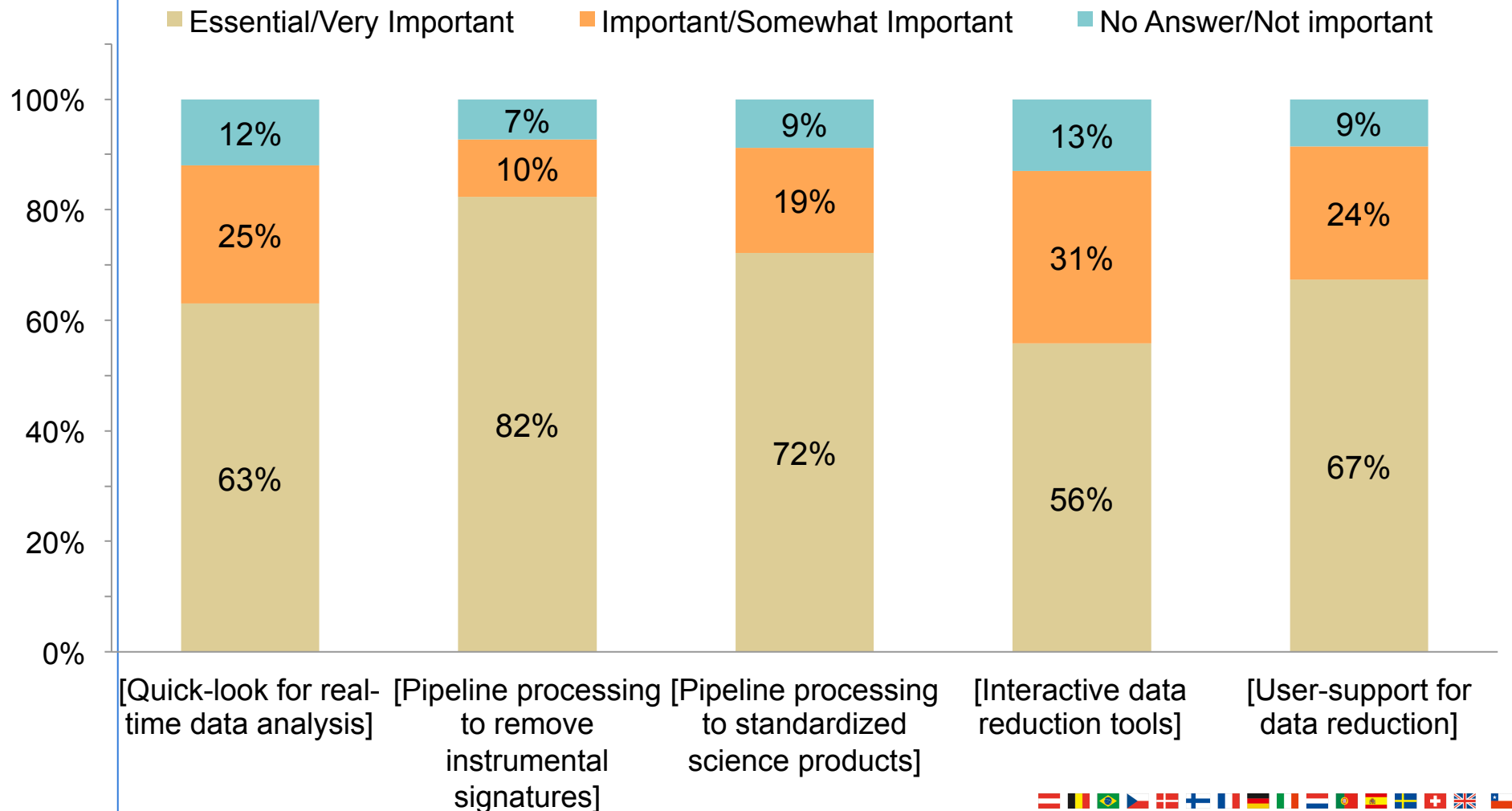
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# Data Management and services

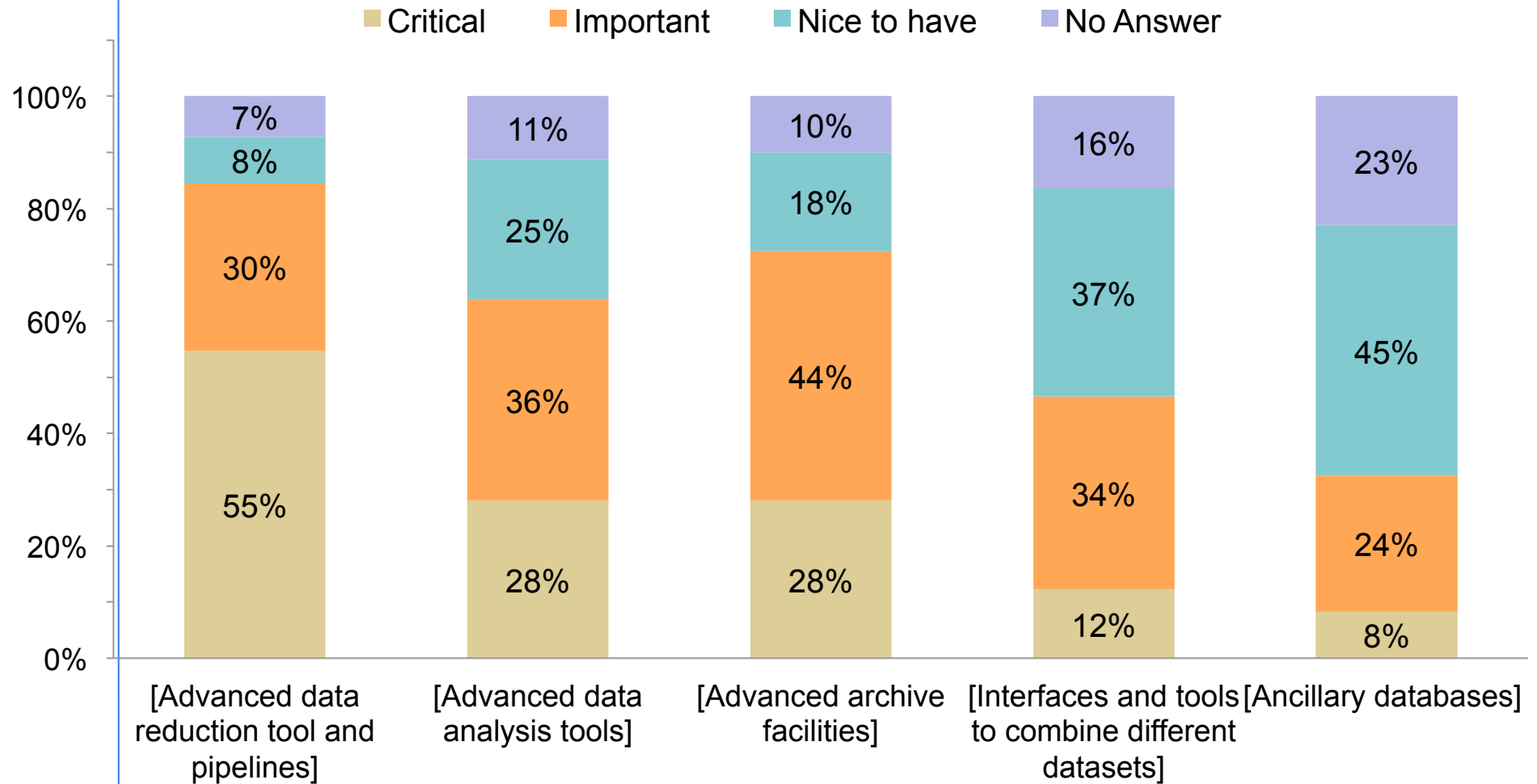
## Data reduction software capabilities





# Data Management and services

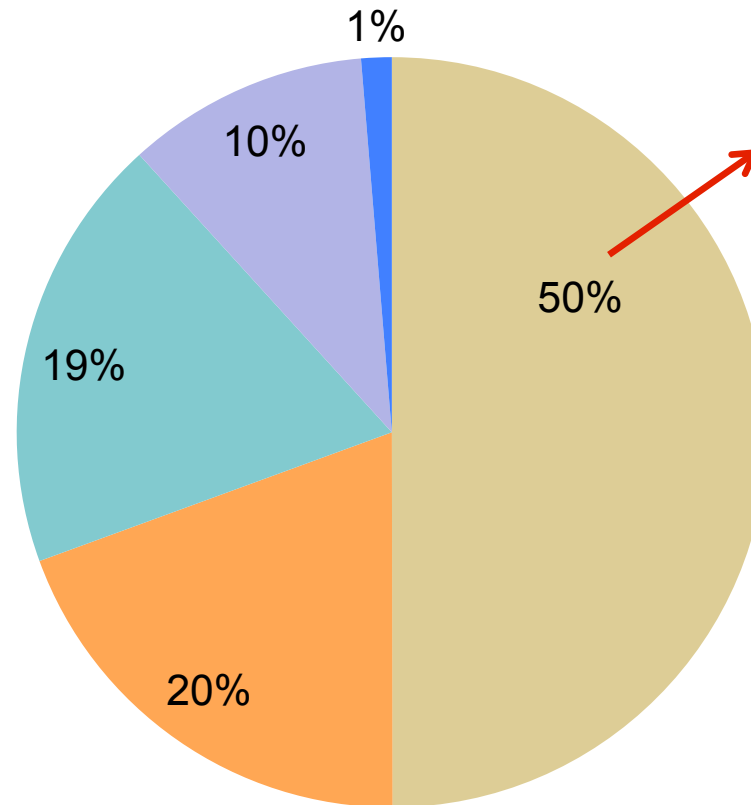
## Critical functions/capabilities



# Data Management and services

Level of support

- ESO routinely process and archive most or all science data
- ESO routinely process and archive selected subsets of science data
- Observers are responsible for data processing but returning the processed data to the ESO Archive
- Observers are responsible for data processing, without any further commitment
- Other



~60% Faculty  
 ~30% Non-tenure  
 ~10% Student

Students seem to need less support



# Remarks

## Science focus

Will we all be doing exoplanets/astrobiology and cosmology/fundamental physics?

## Required facilities

Optical/IR spectroscopy  
10m / ELT / 4m(!)

## Other facilities

JWST / GAIA / CCAT

## Obs. Programmes

Normal programmes are a MUST at all facilities

## Data management

All data (processing + archiving)  
Data reduction tools and pipelines



# *Thank You*

*For your attention*

*For having taken the poll*

*To OSG/USD for their technical support*

