



# SKA SWG Update - Agenda

- Feedback from SKA2021 science meeting
- Update on Science Data Challenge 2
- AOB

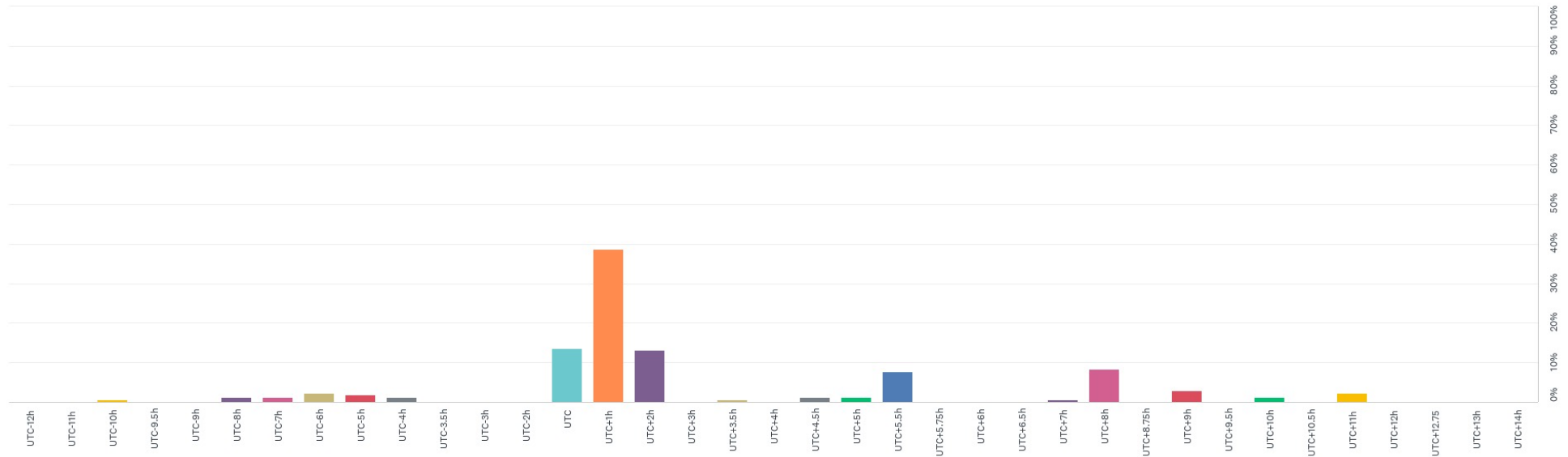
# SKA2021 feedback survey



- 168 respondents (out of 968 registered participants)

## Time zones:

Q1 Which time zone were you based in during the meeting ?

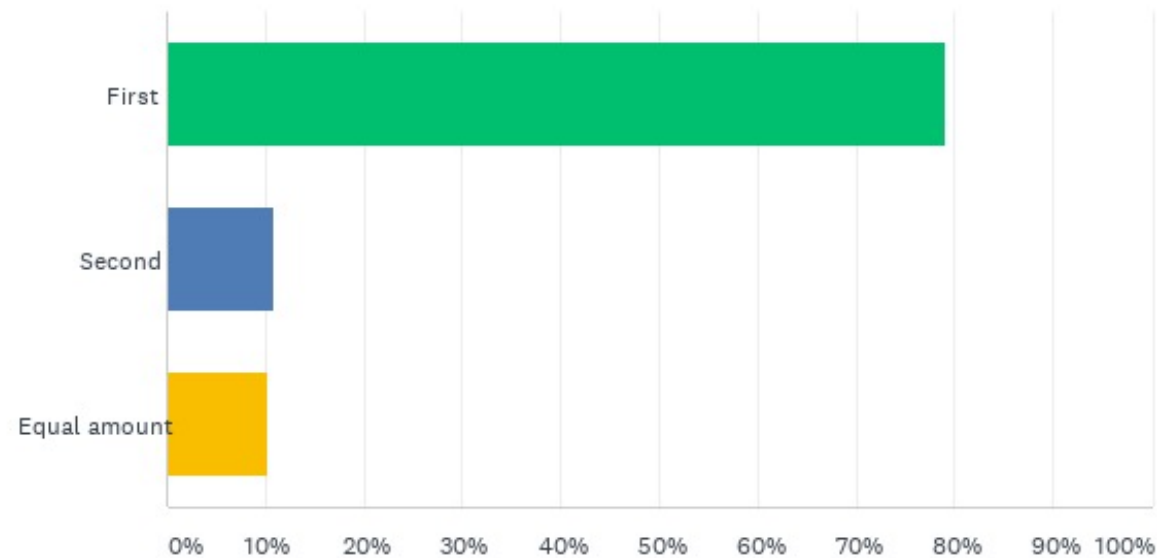


# SKA2021 feedback survey



- Participants generally appreciated having the two time zone structure, but the second was not as well attended

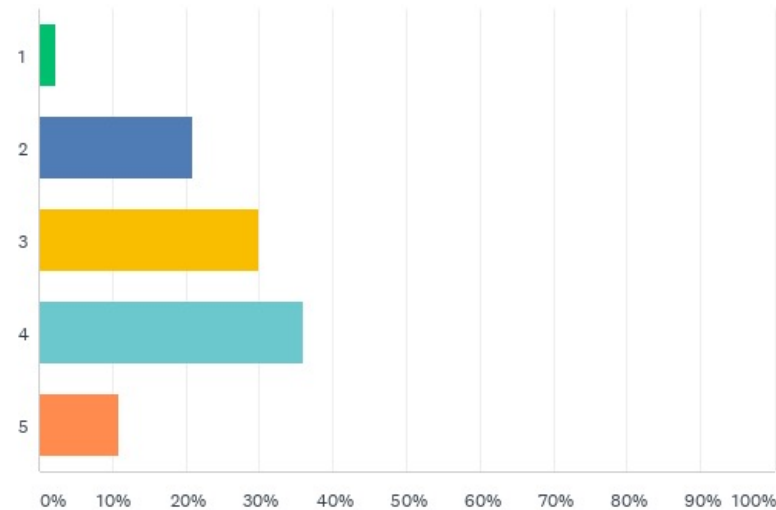
Q2 Did you participate primarily in the first, or second (+12hour) session?



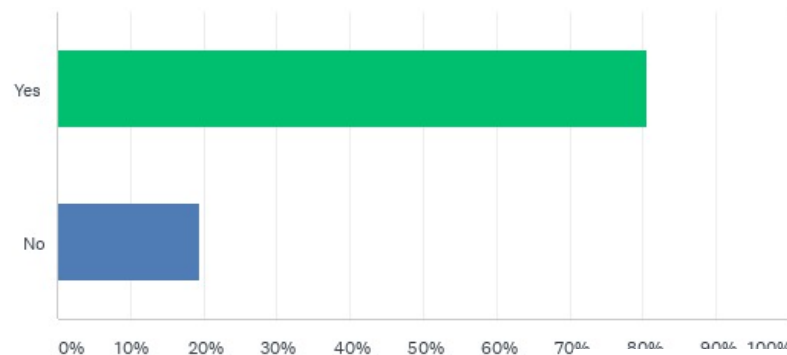
# SKA2021 feedback survey



Q3 On a scale of 1 to 5 (poor to excellent), how would you rank the On-Air platform?



Q4 Were the OnAir instructions and on-line support sufficient for ease of use?

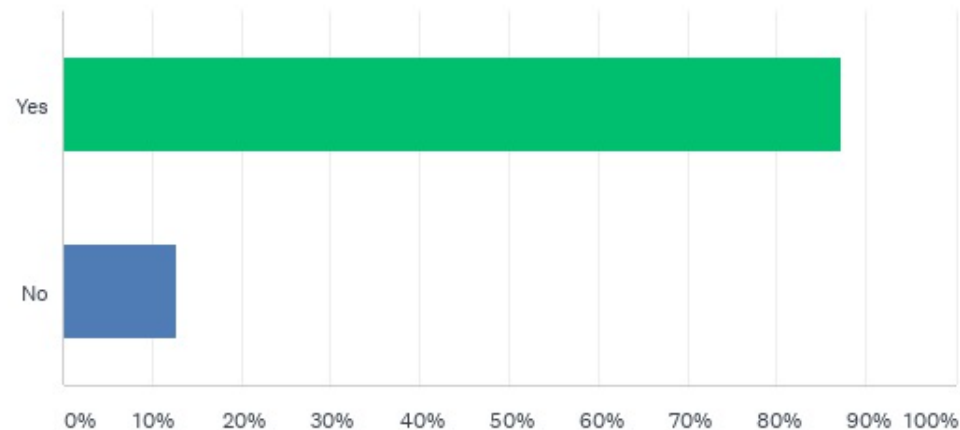


- The OnAir platform scored OK, but some mixed reviews

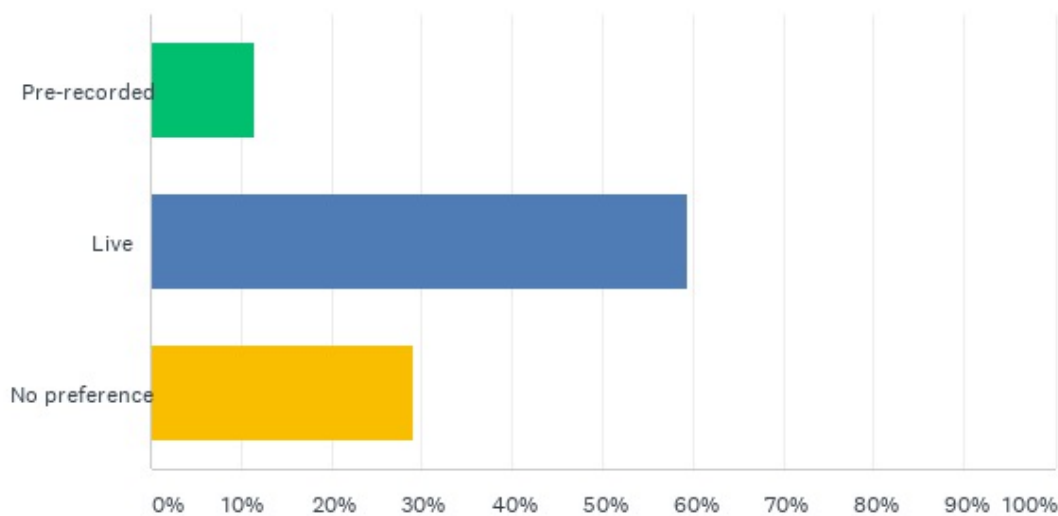
# SKA2021 feedback survey



Q5 Were the video presentations of sufficient quality?



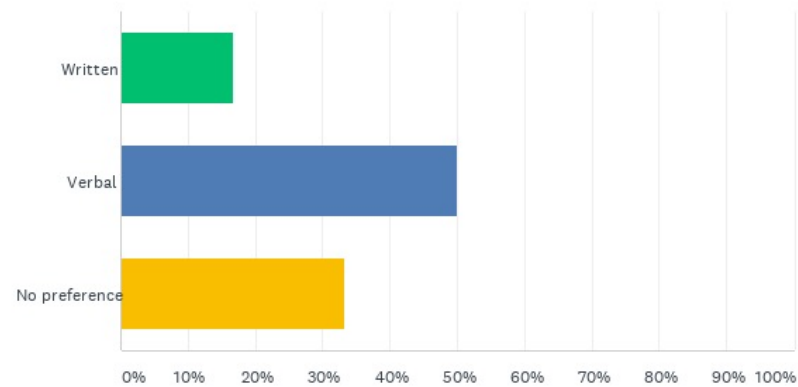
Q6 Do you have a preference for either pre-recorded or live talks?



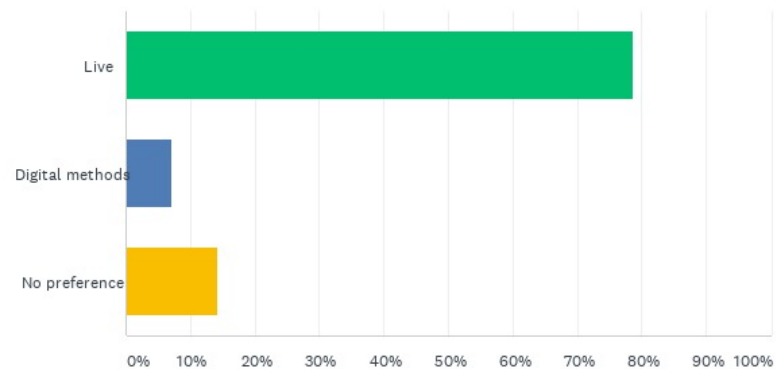
# SKA2021 feedback survey



Q7 Do you have a preference for written or verbal questions in the question and answer sessions?

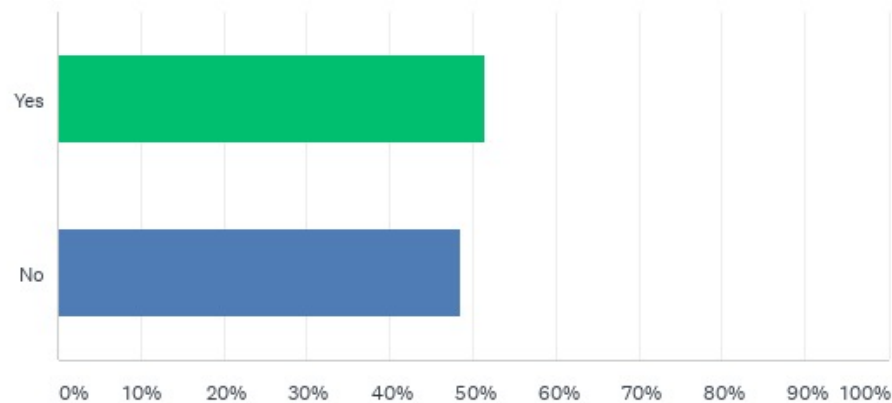


Q8 Do you have a preference for a live chairperson to introduce talks and moderate discussion, or simply the digital conference programme and chat boxes or Slack channel for questions and answers?

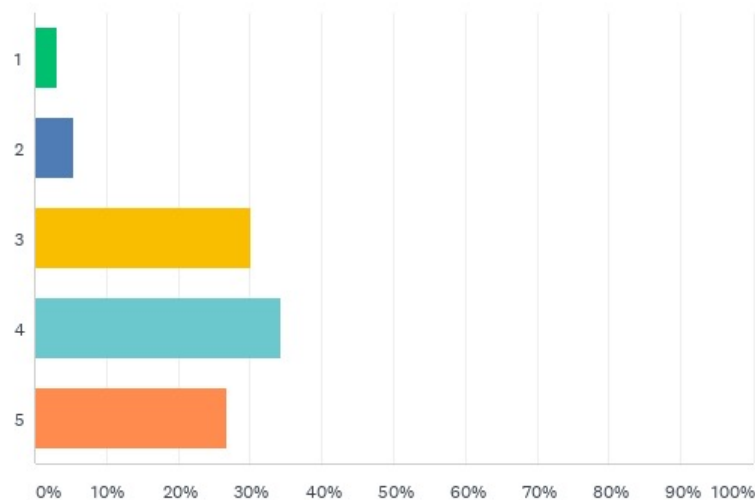


# SKA2021 feedback survey

Q9 Did you make use of the Gathertown platform that was adopted for poster viewing and social networking?



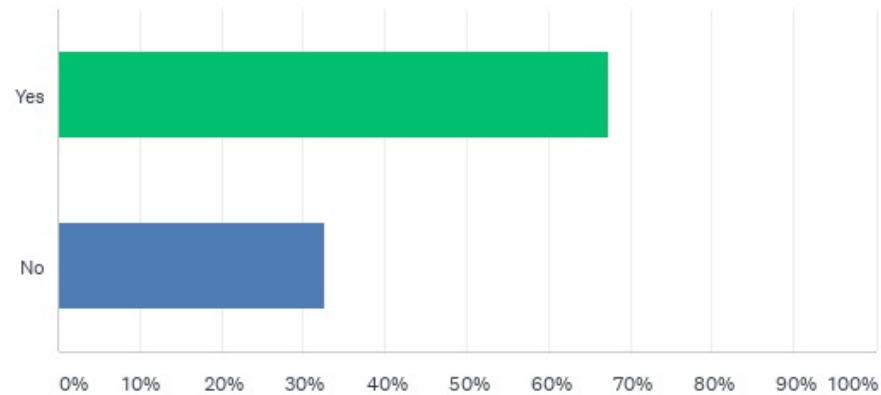
Q10 If you answered 'yes' to question (9), how would you rank Gathertown on a scale of 1 to 5 (poor to excellent)?



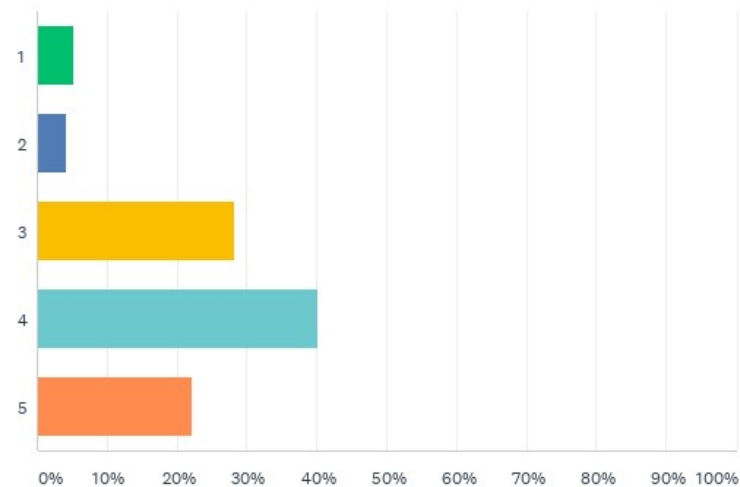
# SKA2021 feedback survey



Q11 Did you make use of the various Slack channels?



Q12 If you answered 'yes' to question (11), please provide a rank of 1 to 5 (poor to excellent) for how useful you found it for engaging with your colleagues.

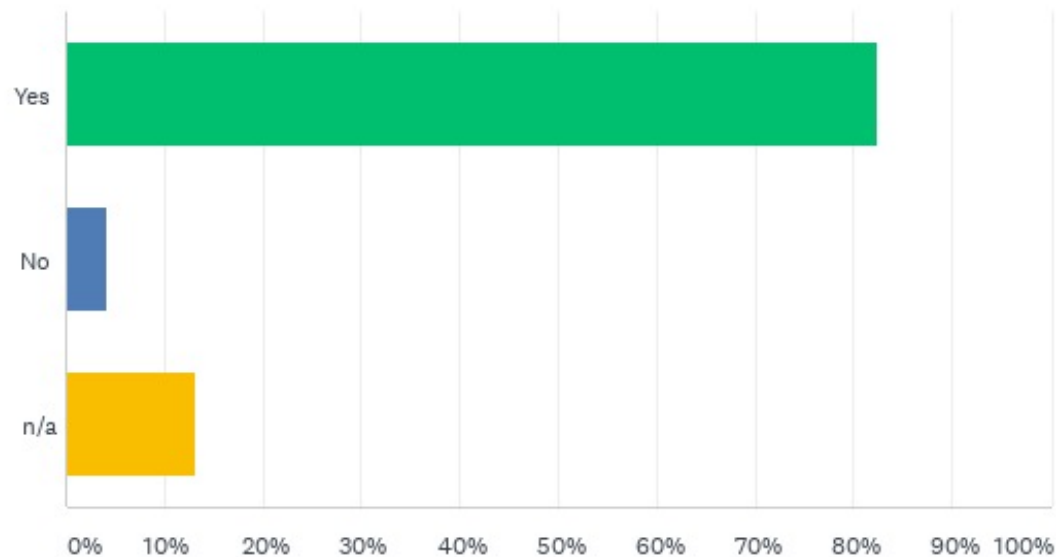




# SKA2021 feedback survey



Q13 Did you find the splinter sessions for your working group(s) useful?



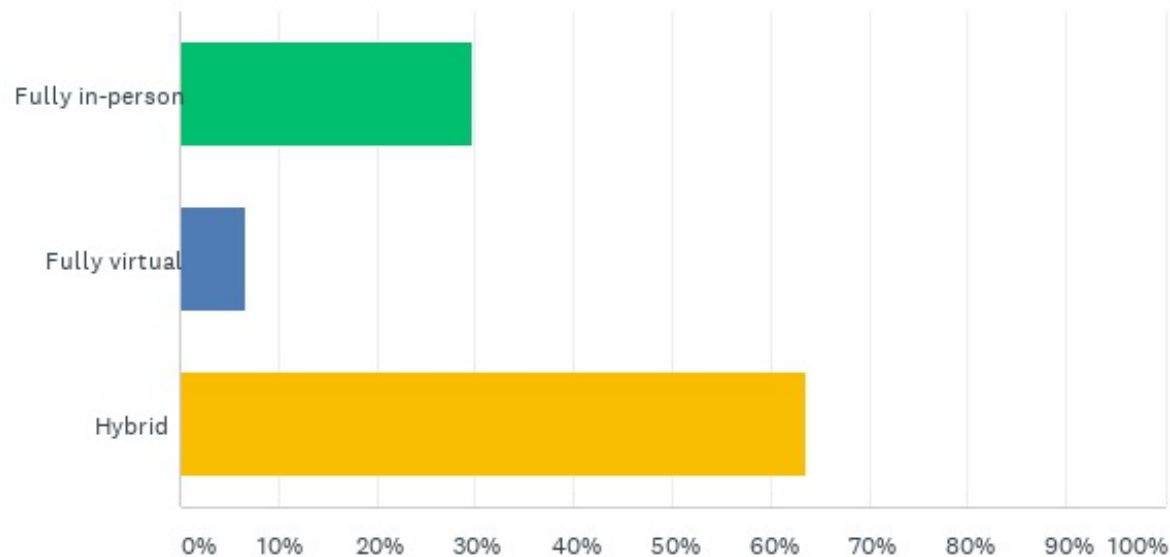
- Splinter sessions scored very well, and many commented on these benefitting from live speakers, chair and discussions:

*”With so much good science going on, I’m pleased there was the opportunity to see more talks. I did feel sorry for the SOC who had to make decisions re: which talks to accept”*

# SKA2021 feedback survey

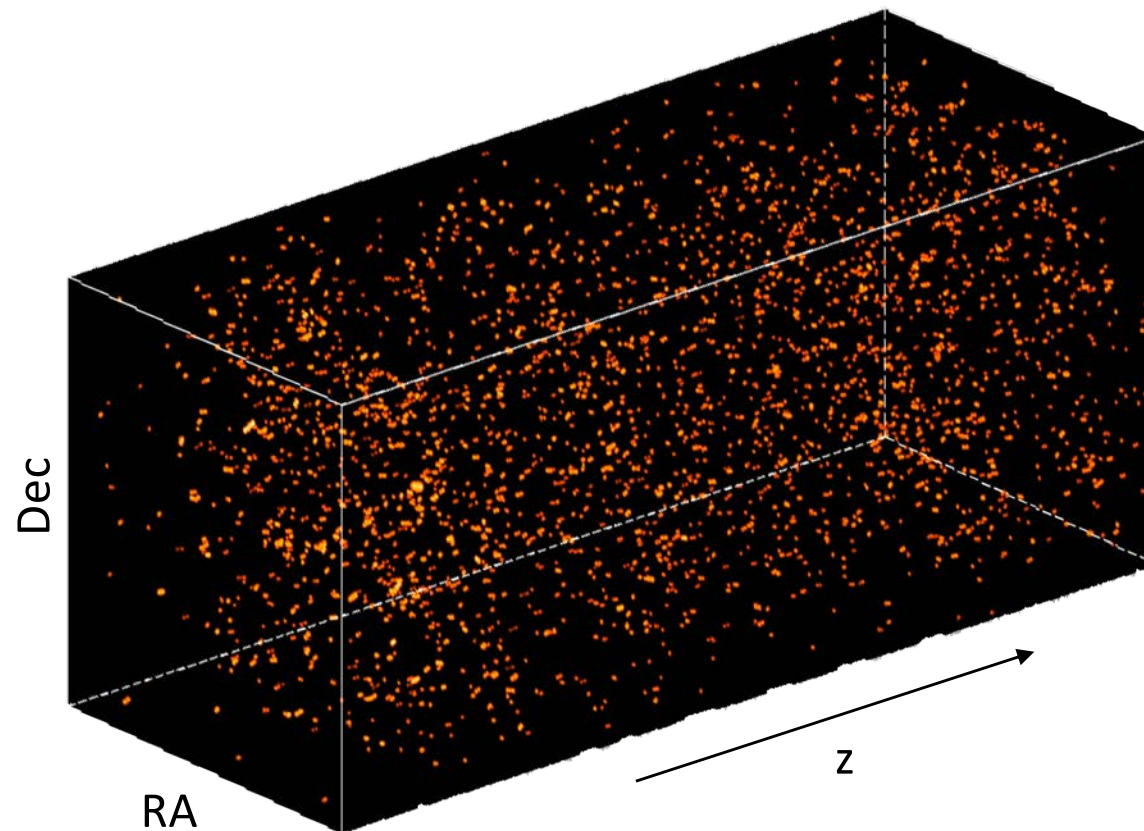


Q14 When fully in-person meetings are feasible again, what format would you prefer for future SKA science meetings?



- Preference for hybrid meetings in the future. Structure TBD?
- Virtual mtg pros: not having to travel, accessibility, lower cost, improved work-life balance, ...
- Virtual mtg cons: no spontaneous interactions or face-to-face discussions, fewer cultural experiences, ...

- (Fairly) big data



A test cube:  
~ 30 arcmin across

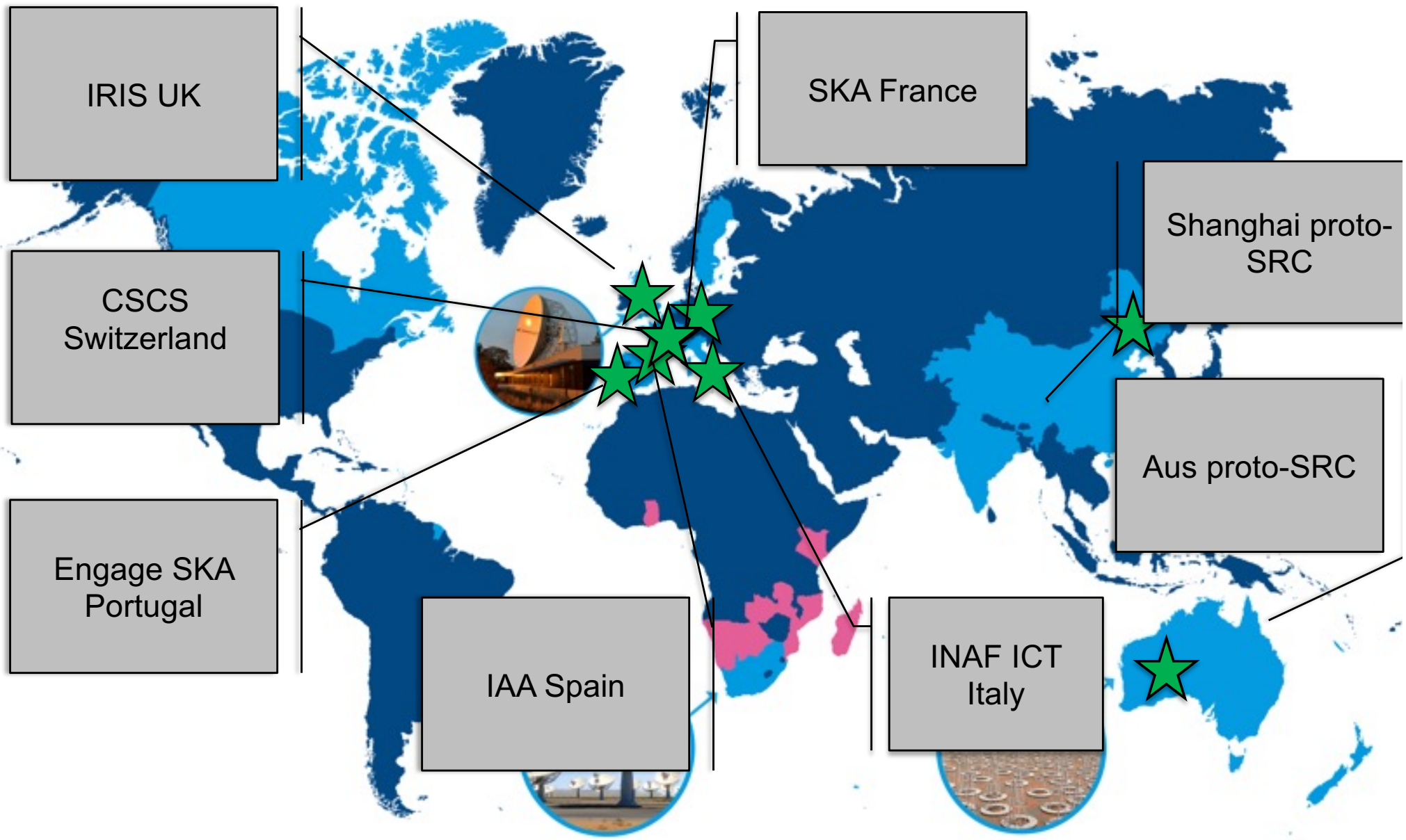
Integration time = 2000h  
Spatial resolution = 7 arcsec  
Frequency resolution = 30 kHz  
RMS per channel 13-18  $\mu$ Jy

FoV = 20 square degrees  
Frequency = 950 MHz – 1150 MHz ( $z = 0.25$  to  $0.5$ )

Data volume = 1 TB



# Computational facility partners





# Participant survey: mid-challenge



## SDC2 participant feedback

We would be very grateful to hear about how you are finding the challenge so far. This feedback will help us to identify how we can provide the best support during the challenge, and will also help inform the design of future challenges

\* Required

Please could you provide your team name \*

Your answer \_\_\_\_\_

### Data processing

We would like to understand your experience of processing the challenge datasets

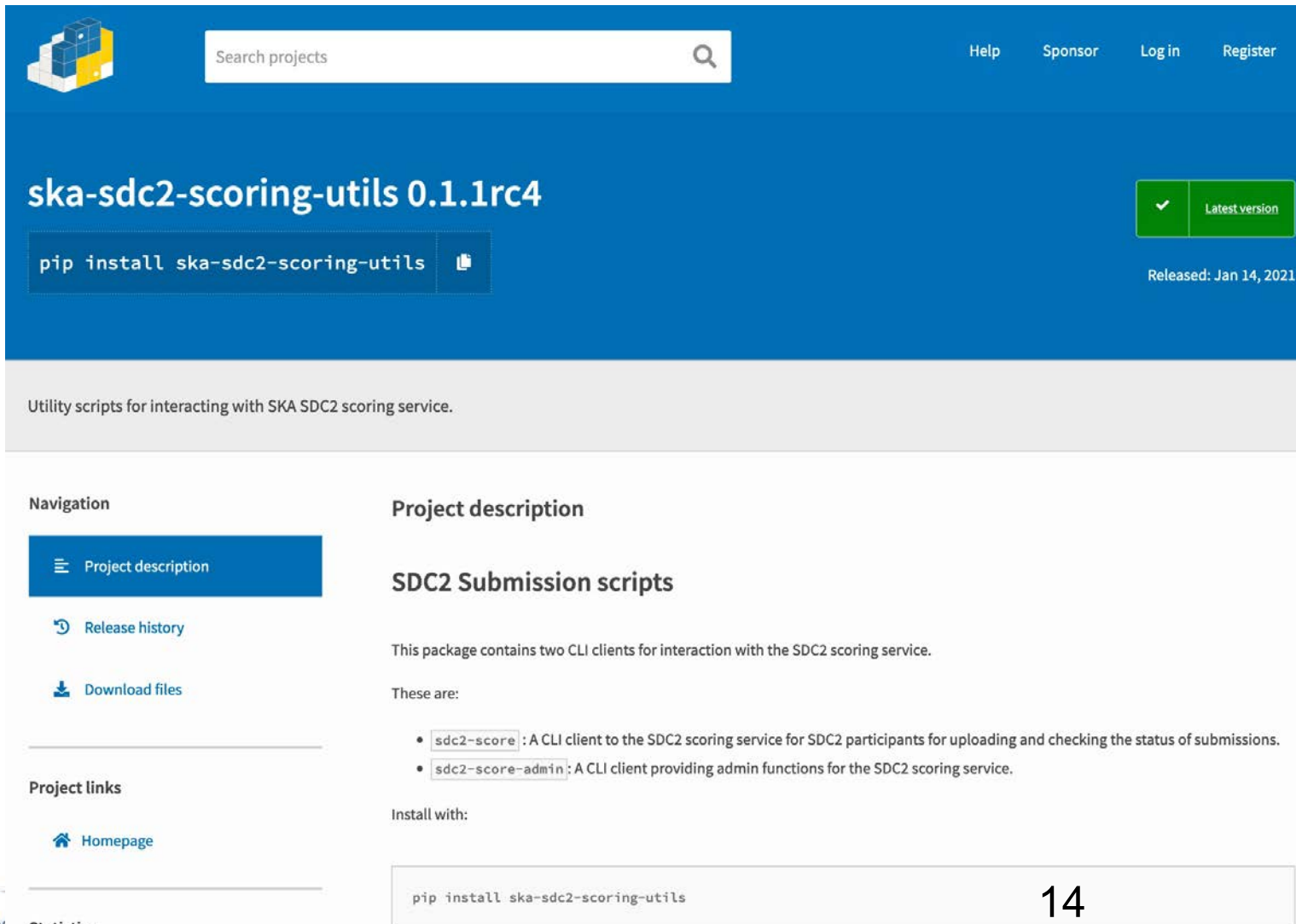
On which SDC2 dataset(s) are you currently working? \*

- None so far
- Evaluation dataset
- Development dataset
- Full dataset

# Scoring service



<https://pypi.org/project/ska-sdc2-scoring-utils/>



The screenshot shows the PyPI project page for `ska-sdc2-scoring-utils` version `0.1.1rc4`. The page features a blue header with a search bar, navigation links (Help, Sponsor, Log in, Register), and a green button for the latest version. Below the header, the project name and version are displayed, along with a terminal snippet for installation: `pip install ska-sdc2-scoring-utils`. The description states: "Utility scripts for interacting with SKA SDC2 scoring service." The left sidebar contains navigation links for Project description, Release history, Download files, Project links, and Statistics. The main content area is titled "Project description" and "SDC2 Submission scripts", describing the package as containing two CLI clients for interaction with the SDC2 scoring service. The clients listed are `sdc2-score` and `sdc2-score-admin`. The "Install with:" section shows the installation command: `pip install ska-sdc2-scoring-utils`.

Navigation

- Project description
- Release history
- Download files

Project links

- Homepage
- Statistics

Project description

### SDC2 Submission scripts

This package contains two CLI clients for interaction with the SDC2 scoring service.

These are:

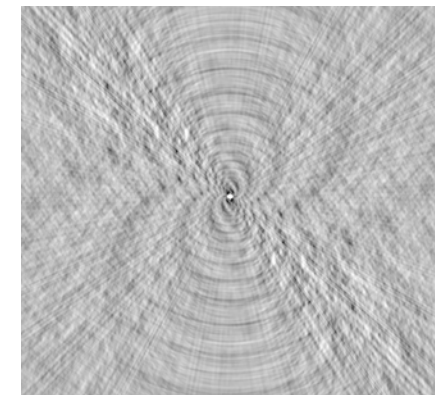
- `sdc2-score`: A CLI client to the SDC2 scoring service for SDC2 participants for uploading and checking the status of submissions.
- `sdc2-score-admin`: A CLI client providing admin functions for the SDC2 scoring service.

Install with:

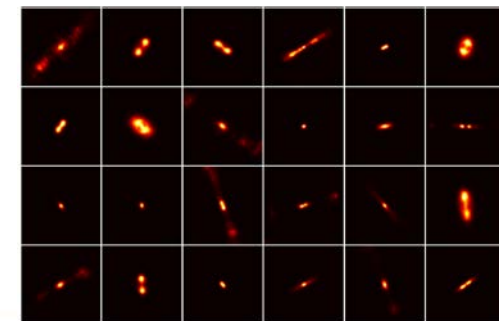
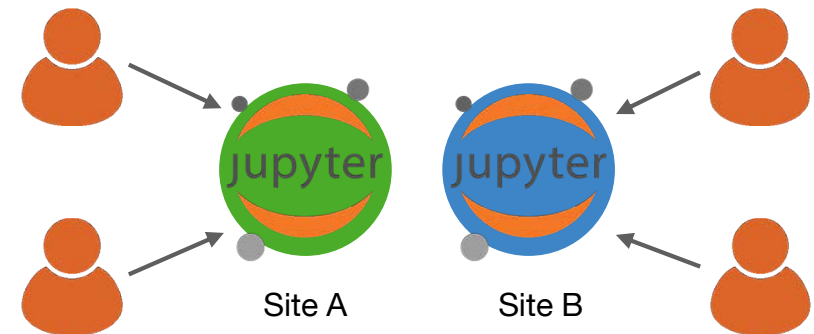
```
pip install ska-sdc2-scoring-utils
```

# Future data challenges

- Potential to align with **SDP** work:
  - SDP currently working to simulate effects of **imperfect calibration/RFI removal**
  - Future simulations could incorporate these effects
- Potential to support JupyterHub environment (to work with **containers**)
  - Further encourage teams towards reproducibility
  - Would support science community to be able to deploy pipelines in future SRCs
- Using **deep learning** to generate mock sources



MID beam



# Future data challenges

- Could be **facilitated** by SKAO, with simulations/modules provided by SWGs
- Possible areas to support:
  - Cosmic magnetism (coordinated by Takuya Akahori)
  - EoR (discussions ongoing with SWG)
  - Transients
  - ..... Call for future challenge ideas to support