SKA SWG Update - Agenda

- Feedback from SKA2021 science meeting

- Update on Science Data Challenge 2

- AOB
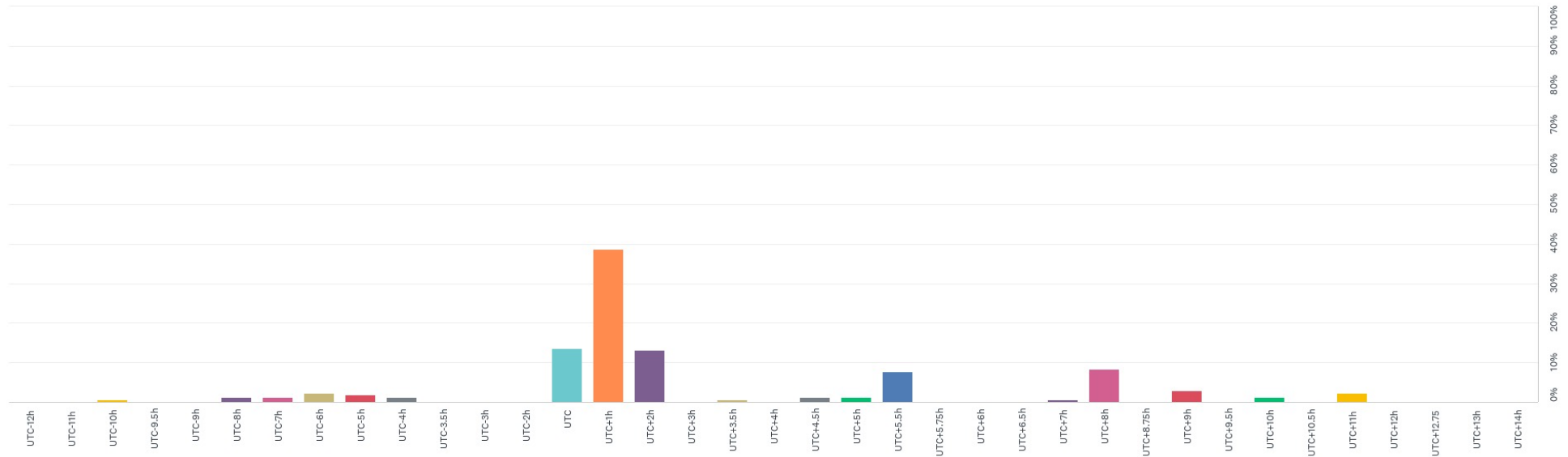
SKA2021 feedback survey

- 168 respondents (out of 968 registered participants)
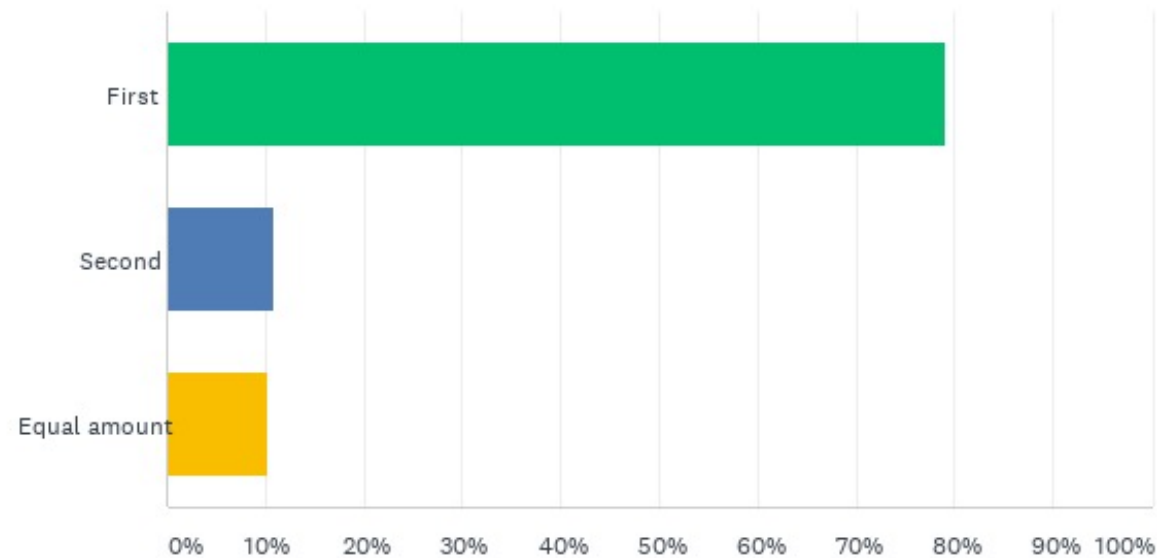
Time zones:

SKA2021 feedback survey

- Participants generally appreciated having the two time zone structure, but the second was not as well attended
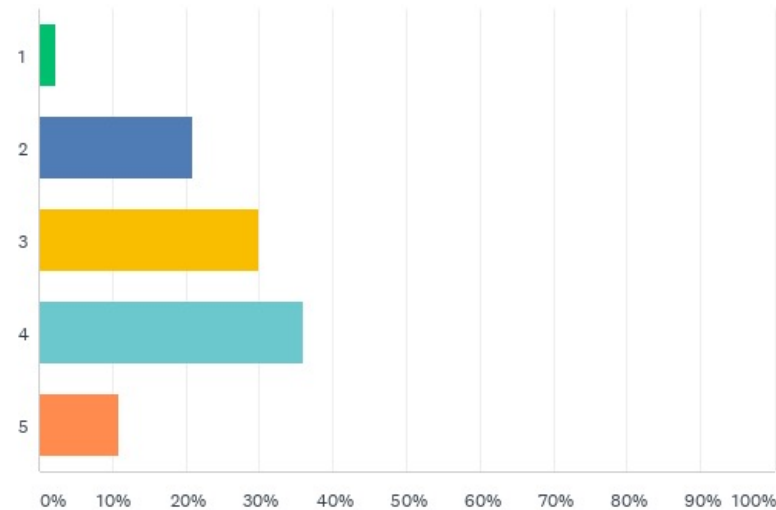
Q2 Did you participate primarily in the first, or second (+12hour) session?
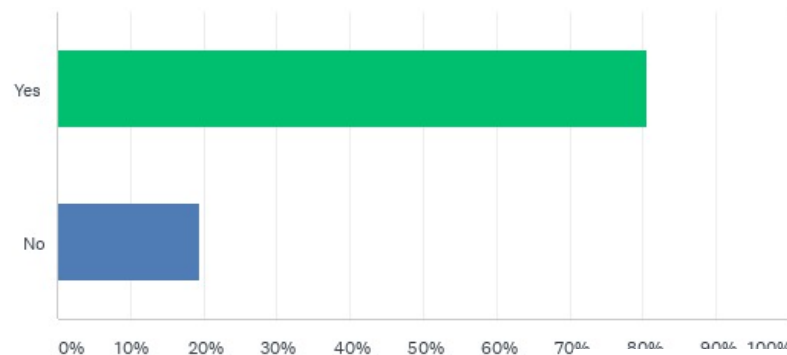
SKA2021 feedback survey

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?
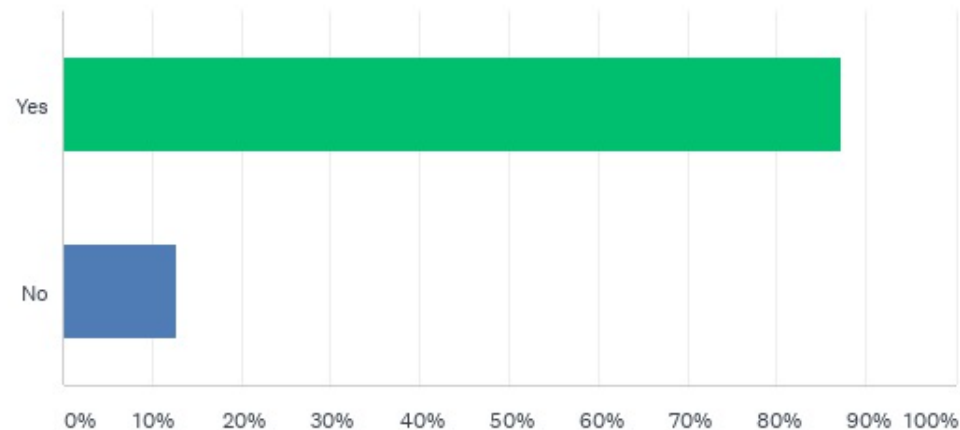

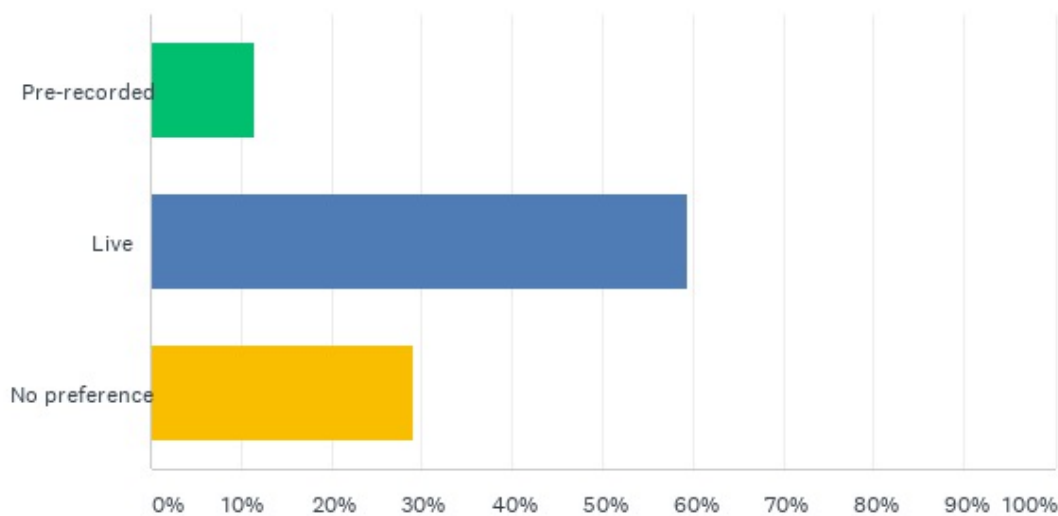- The OnAir platform scored OK, but some mixed reviews

SKA2021 feedback survey

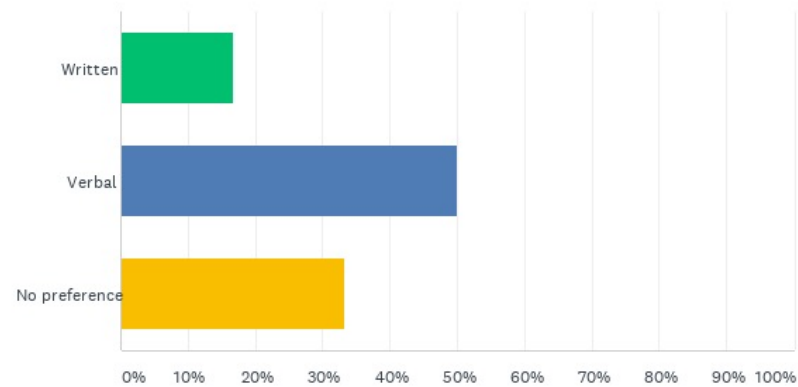Q5 Were the video presentations of sufficient quality?

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?
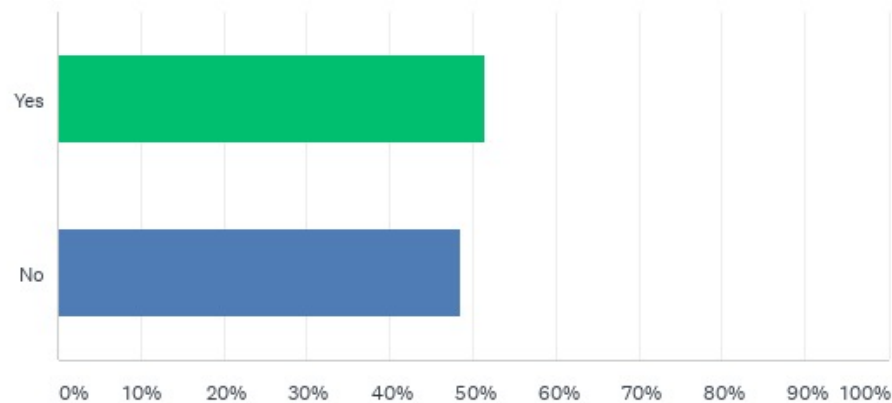

Q8 Do you have a preference for a live chairperson to introduce talks and moderate discussion, or simply the digital conference programme and chat boxes or Slack channel for questions and answers?
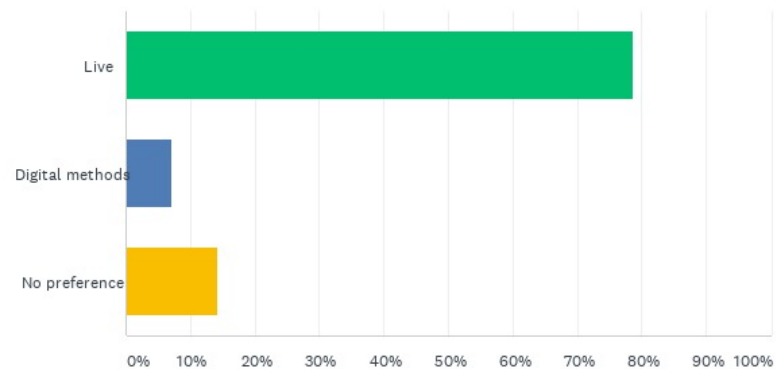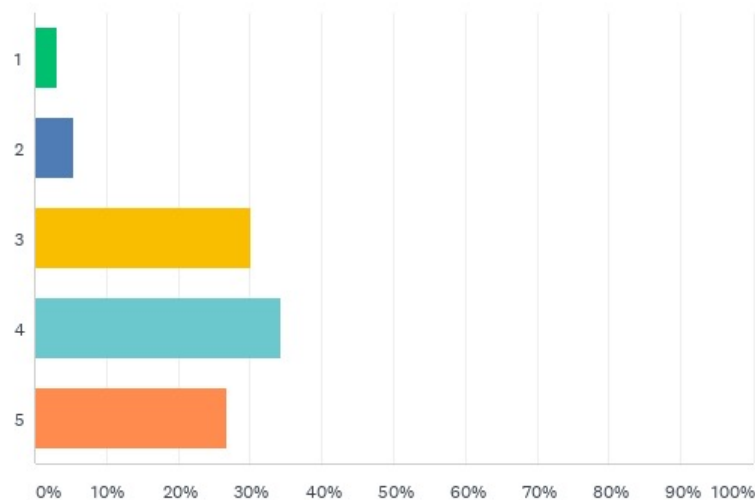
SKA2021 feedback survey

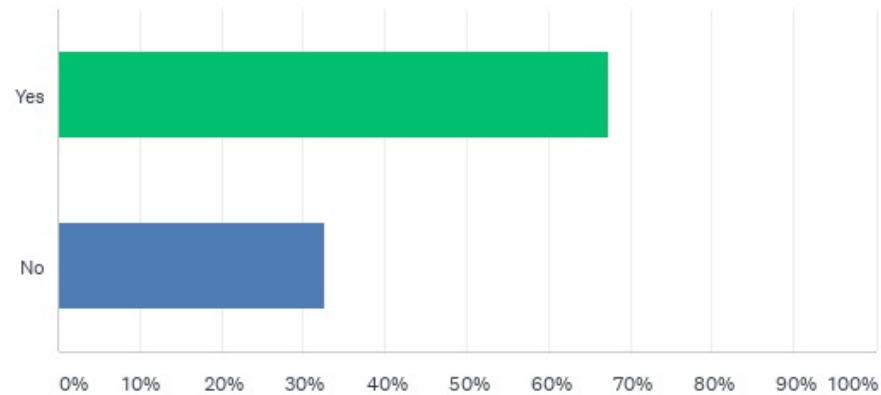**Q9 Did you make use of the Gathertown platform that was adopted for poster viewing and social networking?**

Q10 If you answered 'yes' to question (9), how would you rank Gathertown on a scale of 1 to 5 (poor to excellent)?
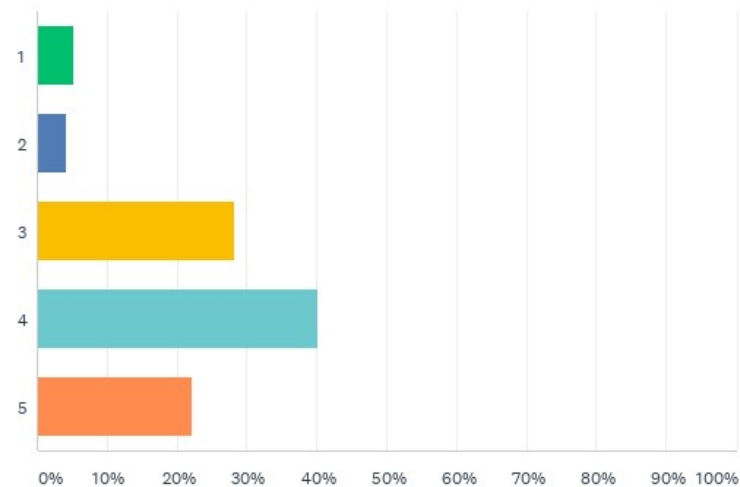
SKA2021 feedback survey

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.
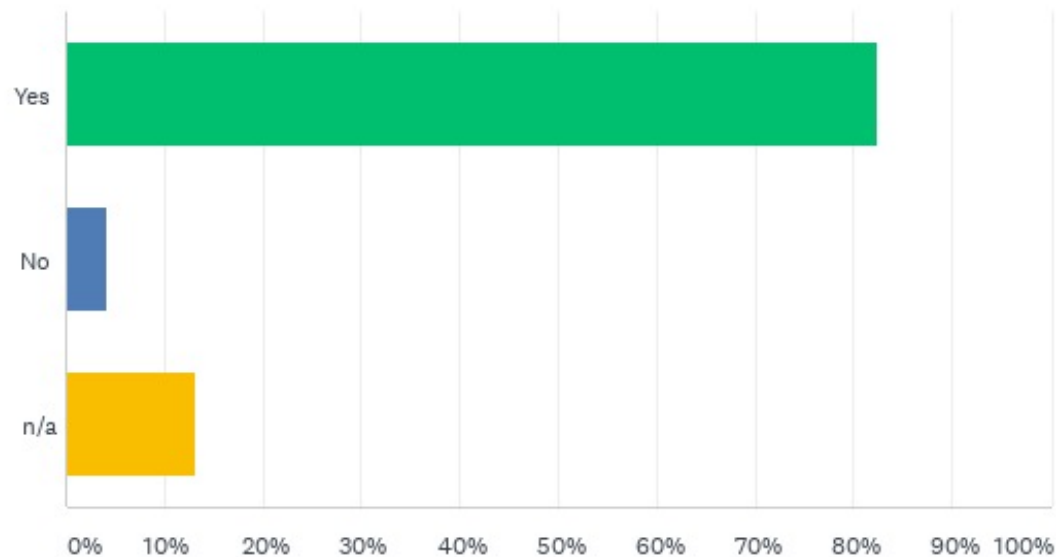
SKA2021 feedback survey

## 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?
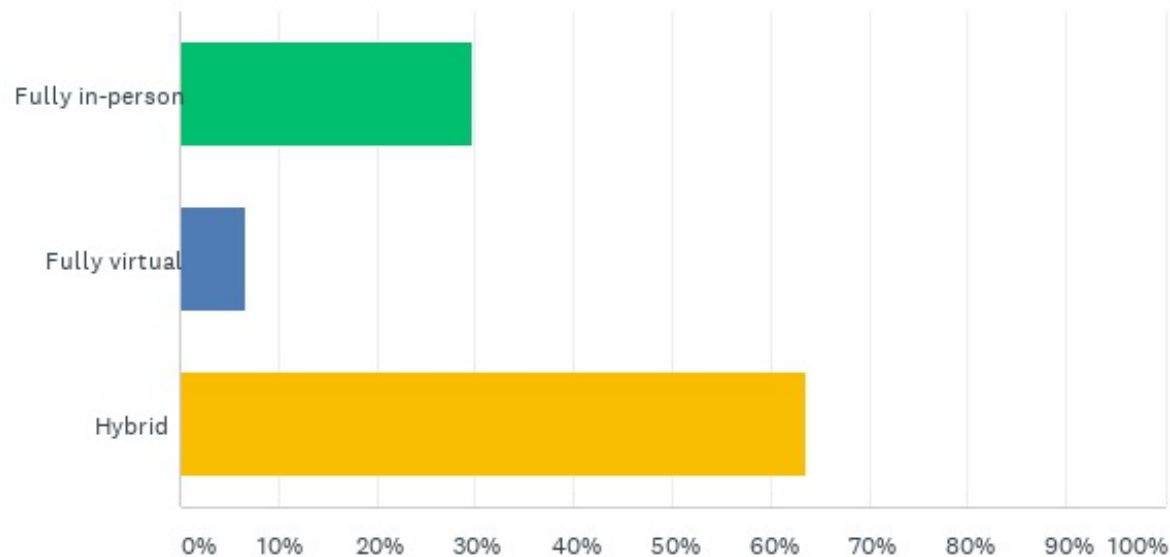
- Preference for hybrid meetings in the future. Structure TBD?
- Virtual mtg pros: not having to travel, accessibility, lower cost, improved work-life balance, …
- Virtual mtg cons: no spontaneous interactions or face-to-face discussions, fewer cultural experiences, …
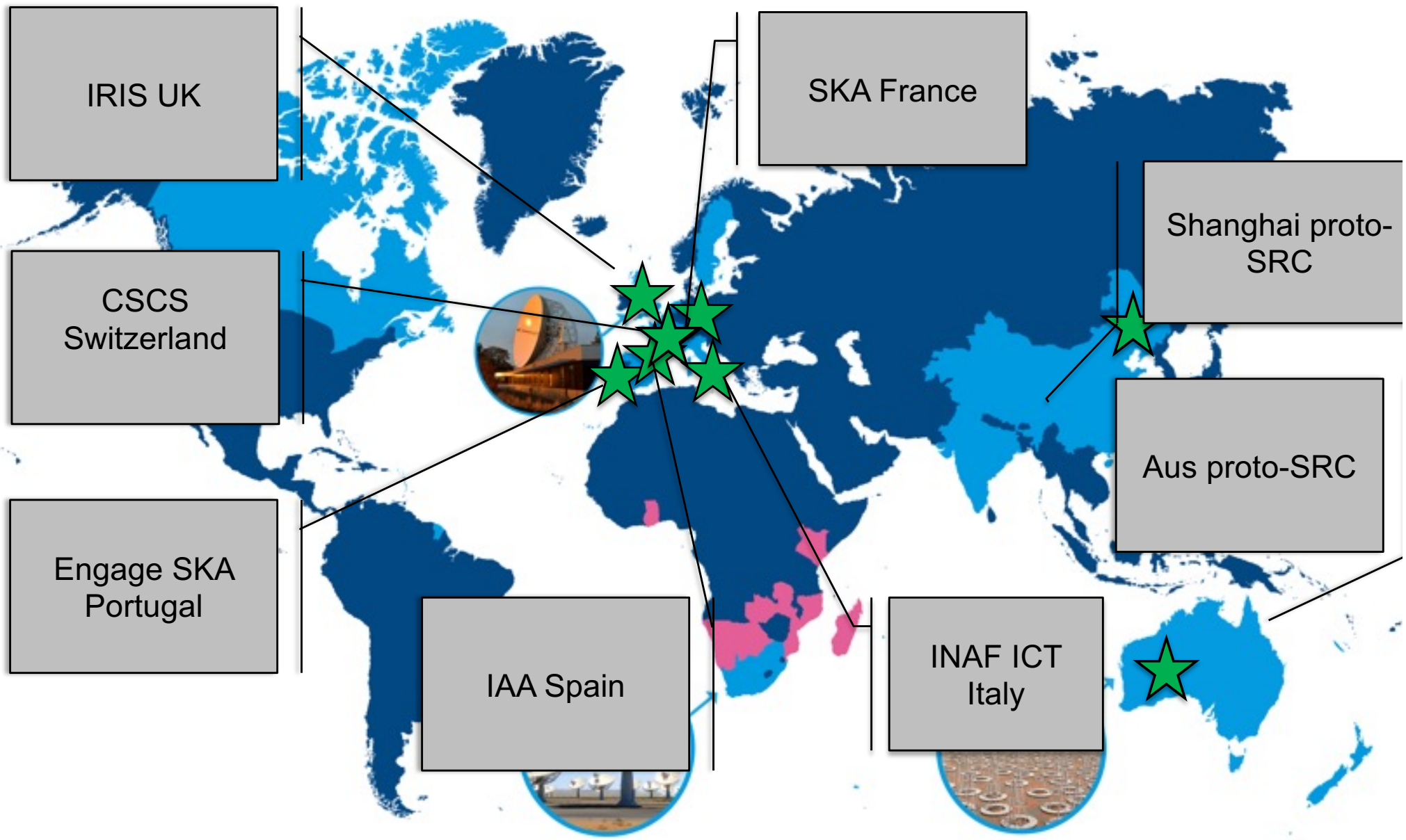
• (Fairly) big data
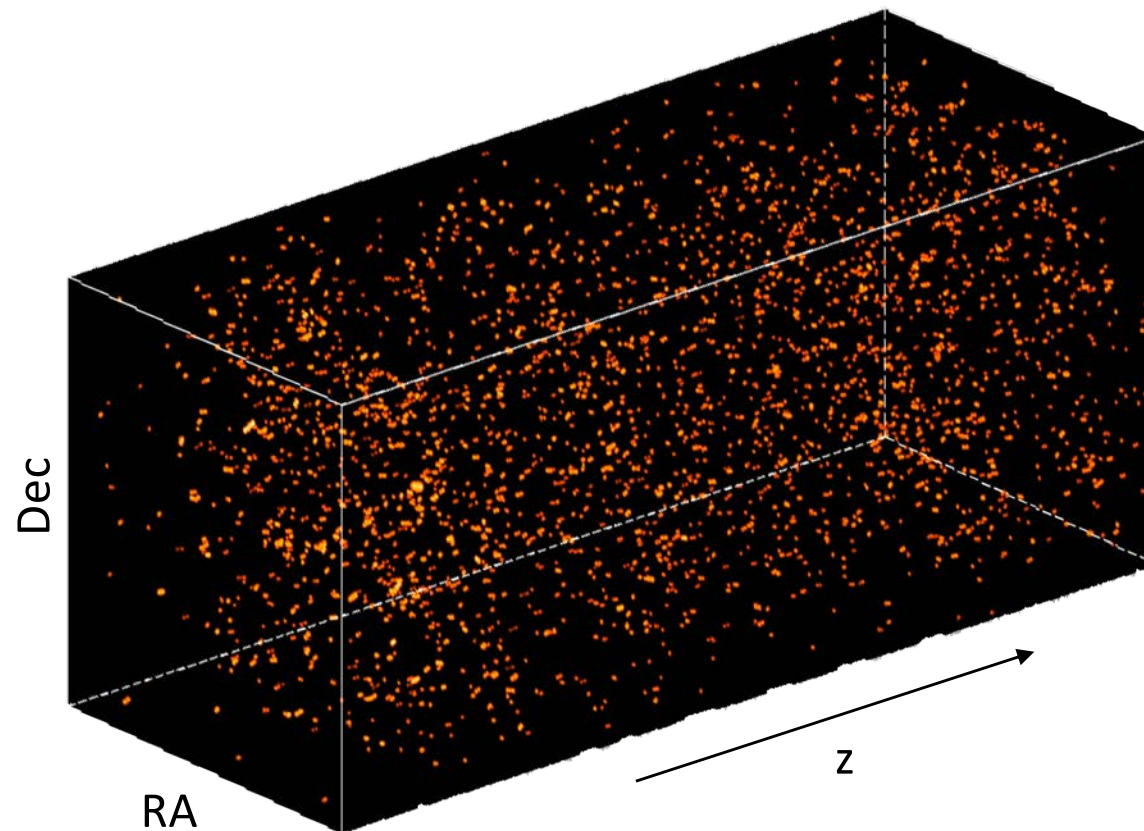
A test cube:
~ 30 arcmin across

Integration time = 2000h
Spatial resolution = 7 arcsec
Frequency resolution = 30 kHz
RMS per channel 13-18 muJy

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

Data volume = 1 TB

Computational facility partners

IRIS UK

SKA France

Shanghai proto-SRC

CSCS Switzerland

Aus proto-SRC

Engage SKA Portugal

IAA Spain

INAF ICT Italy

Participant survey: mid-challenge

Exploring the Universe with the world's largest radio telescope

Scoring service

Future data challenges

MID beam

- 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

Site A   Site B

Bastien et al., 2021
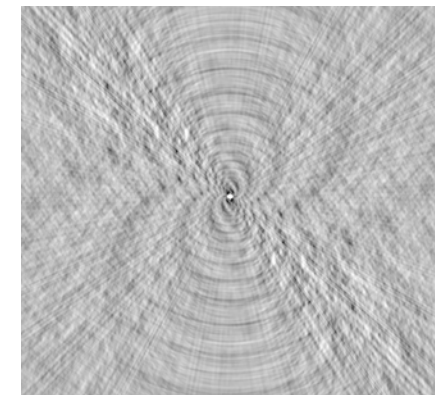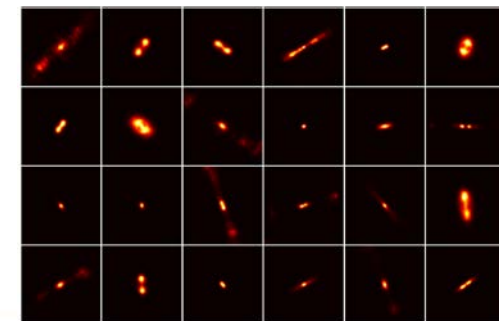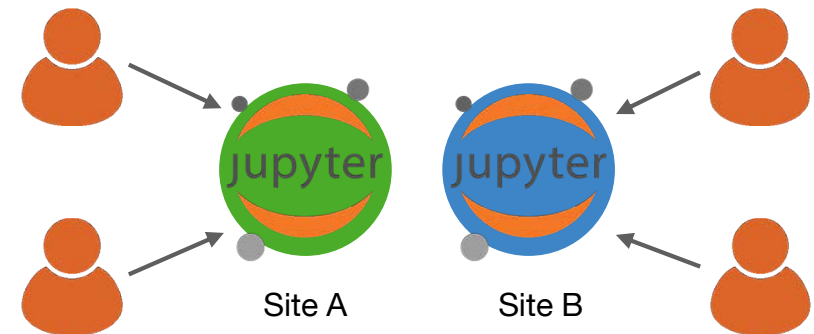
Future data challenges

- 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