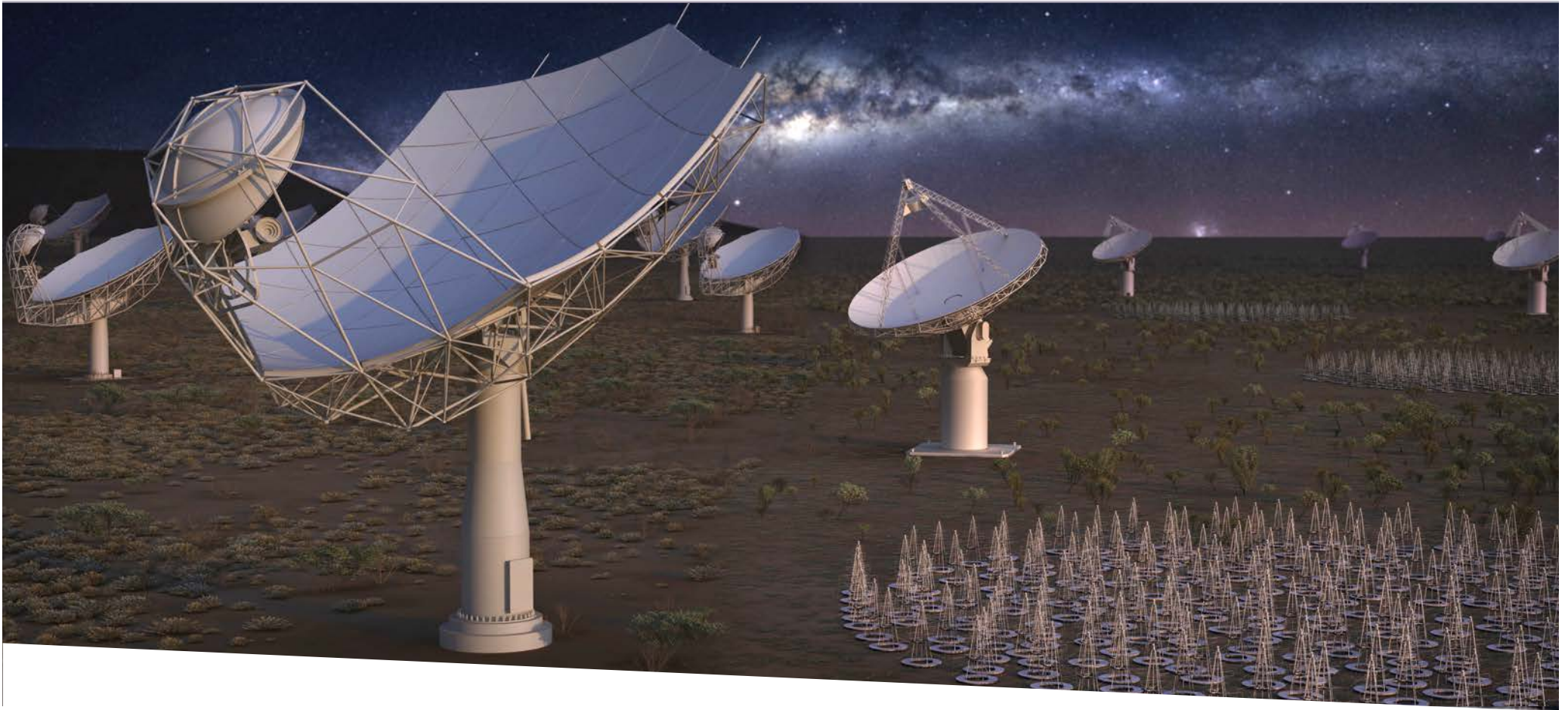


SKA SWG Update



SQUARE KILOMETRE ARRAY

Exploring the Universe with the world's largest radio telescope

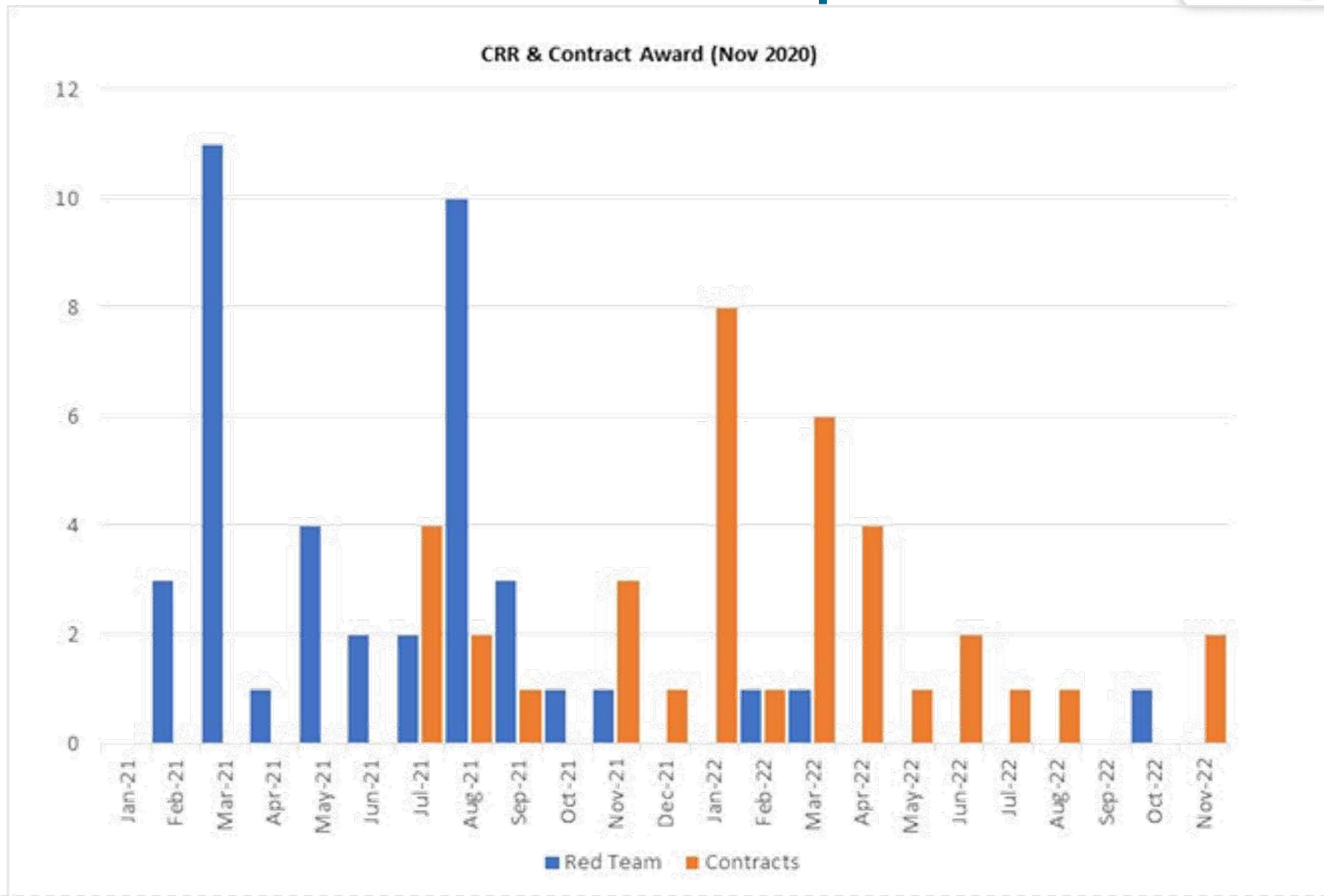
Robert Braun, Science Director

19 Jan 2021

Science Activity Updates

- Coordinated SWG video repository (Cassandra Cavallaro)
- SKA Observatory
 - IGO “entry into force” as legal entity: 15 January 2021
 - SKA Observatory first Council Meeting: 3 – 4 February
 - Council Meeting two March/April: Approve transition of Org → Obs
 - SKA Org staff transition to SKA Obs: early May
 - Council Meeting three June/July: Approve SKA construction
- Observatory Development Plan Science Road Map
 - Nominations for Science Advisory Group to open in February
- Gearing up for Construction Contracts
- SWG support contact updates
- Next Science Meeting (Anna)
- Current Science Data Challenge (SDC2) (Philippa)
- AOB

SKA Construction Contract Preparation



Contract Preparation



Touch-point	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21	Nov '21	Dec '21	Full year 2022	Full year 2023
PR	All													
CRRs (43)		Mid CSP & CBF; Low Station Mgt & Int.; Software Sole Source	Mid Infra PSC; Mid Infra 1; Mid Infra 2; Mid Infra 3; Mid Infra 4; Mid Dish PSC; Low Infra PSC; Low Infra 1; Low Infra 3; Low Infra 6	Software Comp.	Mid S-AIV; Low CSP; Low SPC; Low Infra 2; Mid Timing	Mid B2; Low Timing	Mid B1; Mid Dish Structure	Mid SPF Services; Mid SPFRx; Low Antenna Ass.; Low PaSD; Mid Infra 6	Mid Cryo; Mid & Low Clocks; Low Station Dep.; Low Infra 5; Low S-AIV	Low SPS	Mid B5		Mid Infra 5; Mid Networks; MeerKAT Integration; Mid CPF; Low Networks; Low CPF; Low PPA	Mid SPC
TEPs start review of tenders (56)			Mid CBF	Mid Infra PSC; Mid Dish PSC; Mid CSP; Low Infra PSC; Low Station Mgt & Int.; Software Sole Source (??)			Software Comp. (??)	Mid B1; Mid S-AIV; Low Timing	Mid Infra 4; Mid Dish Structure; Low Infra 1; Low Infra 6	Mid Infra 1; Mid Infra 2; Mid Infra 3; Mid B2; Low Infra 2; Low Infra 3; Low Infra 5	Mid Timing; Low CSP; Low SPC	Mid SPFRx	Mid Infra 5; Mid Infra 6; Mid B5; Mid Cryo; Mid SPF Services; MeerKAT Integration; Mid & Low Clocks; Low Station Dep.; Low Antenna Ass.; Low PaSD; Low SPS; Low S-AIV; Low PPA	Mid Networks; Mid SPC; Mid CPF; Low Networks; Low CPF
C0s (56)	KEY: Ben = red André = gold Maurizio = brown Du Bruyn = black Mark = blue David = green Peter = orange Jacque = pink Jill = purple Adriaan = yellow Unassigned = grey						Mid Infra PSC; Mid Dish PSC; Mid CBF; Low Infra PSC; Low Station Mgt & Int.; Software Sole Source (??)	Mid CSP	Software Comp. (??)		Mid Infra 4; Mid S-AIV; Low Infra 1; Low Infra 2; Low Infra 6	Mid B2;	Mid Infra 1; Mid Infra 2; Mid Infra 3; Mid Infra 6; Mid Dish Structure; Mid B1; Mid B5; Mid Cryo; Mid SPF Services; Mid SPFRx; MeerKAT Integration; Mid & Low Clocks; Mid Timing;; Low Infra 3; Low Infra 5; Low Station Dep.; Low Antenna Ass.; Low PaSD; Low SPS; Low Timing; Low CSP; Low S-AIV; Low PPA; Low SPC	Low CPF; Mid Networks; Mid CPF; Low Networks; Mid SPC (2024)

Contract Support



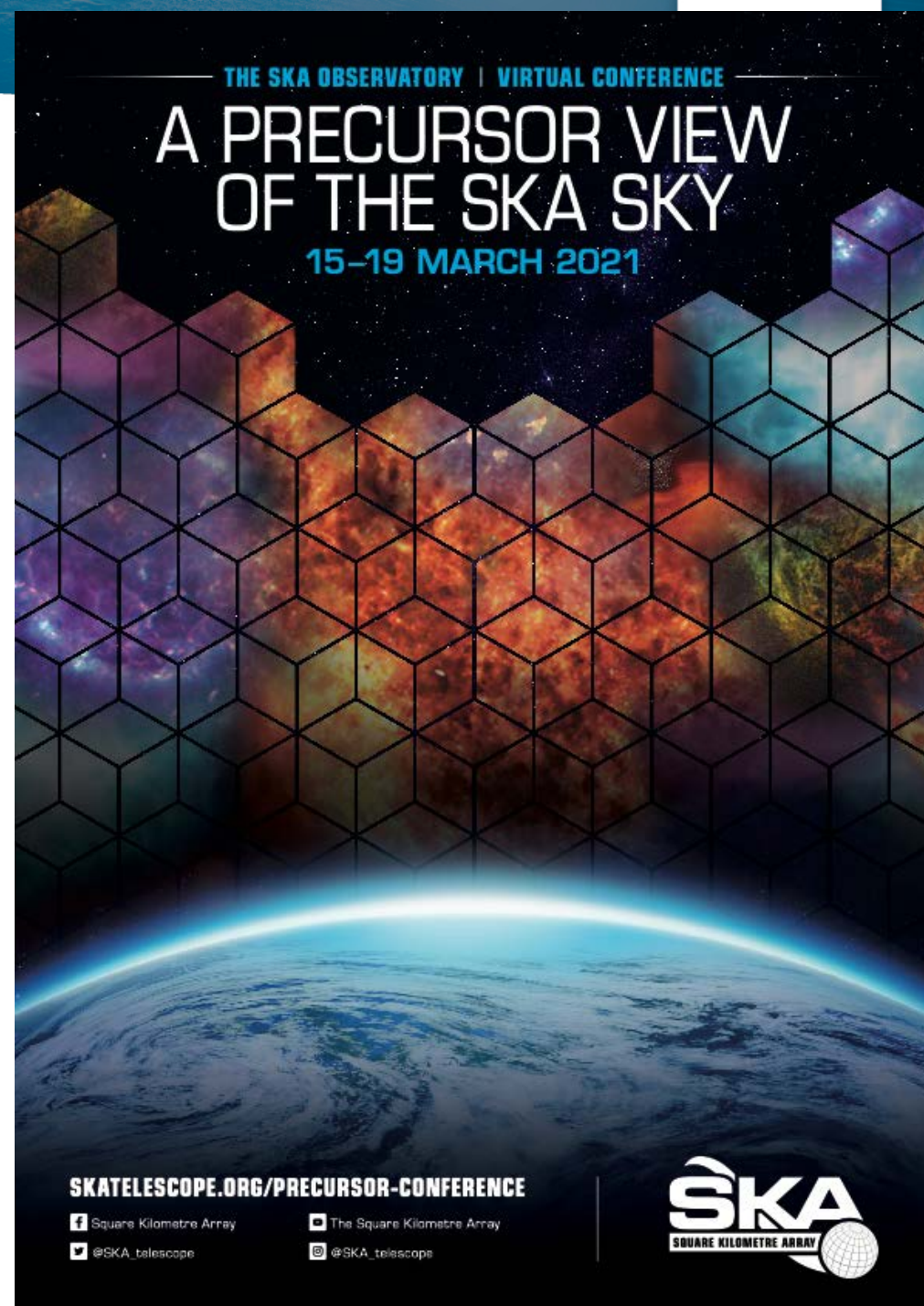
	Progress Review	CRRs (red teams)	Tender Evaluation Panels	Contract awards
D-G	Observes per interest	Considers sole source justifications	By exception (e.g. no compliant tenders)	Approves award recommendations of FC/TSC
Mission Assurance	Chairs and provide specific inputs (HSE Plan, PA Plan, Standards, Config status)	Chair red team and provide specific inputs	Technical rep	Config
Programmes	Present status, open points and plans by general document and by contract	PMs and Design Authorities submit their contract packs for red team review. Programmes staff are also on red teams for other contracts.	PMs and Design Authorities plus additional Domain Specialists as needed	PM drafts award recommendations (with Procurement)
Operations	Inputs on Ops readiness (RAM, tools)	Red team all	Technical rep	
Strategy	Inputs on IGO dependencies	Inputs IKCAs	By exception	
Legal	Inputs on Legal readiness	Red team all		Supports
Finance	Inputs on funding, contracting financial strategies and ERP readiness	Red team where relevant (Option Cs and non-standard currencies)	By exception	Manages FC/TSC (who review Procurement's award recommendations and recommend to D-G)
Procurement	Inputs on procurement readiness incl. tools	Red team all	Panel secretary; Commercial rep	Drafts award recommendations (with PM)
HR	Inputs on direct recruitment status and readiness of partnership resourcing agreements and tools			
IT	Inputs on IT readiness	Red team where relevant	Technical rep where relevant	
Comms	Inputs on comms requirements	Internal comms on completion		Public announcements on completion
Science	Observes per interest	Red team wrt functional requirements		

Science Working Group Support Update

SWG	Primary	Backup
Cosmology	Anna	Philippa
Cradle of Life	Tyler	
EoR	Jeff	Anna
ExGal Cont	Anna Jeff	Philippa
ExGal Line	Jeff	Tyler
GW	Anna	
Cosmic Particles	Jeff	
HI	Jeff	
Magnetism	Tyler	Anna
Our Galaxy	Tyler	
Pulsars	Jeff Tyler	
Solar	Jeff	
Transients	Tyler	
VLBI	Tyler	

SKA Science 2021

- 15 – 19 March 2021
- Using the OnAir platform
- Plenary talks:
 - Abstract submission deadline **20th January**
 - Plenary talks pre-recorded, with live Q&A sessions, repeated in different time zones
- Website and registration go live on 19 January (link will be distributed)
- Splinter meetings
 - Organised independently by the SWGs
 - Live talks/ discussions, time zones based on SWG geographical spread
- Poster sessions
 - We are exploring solutions for an effective virtual poster session experience

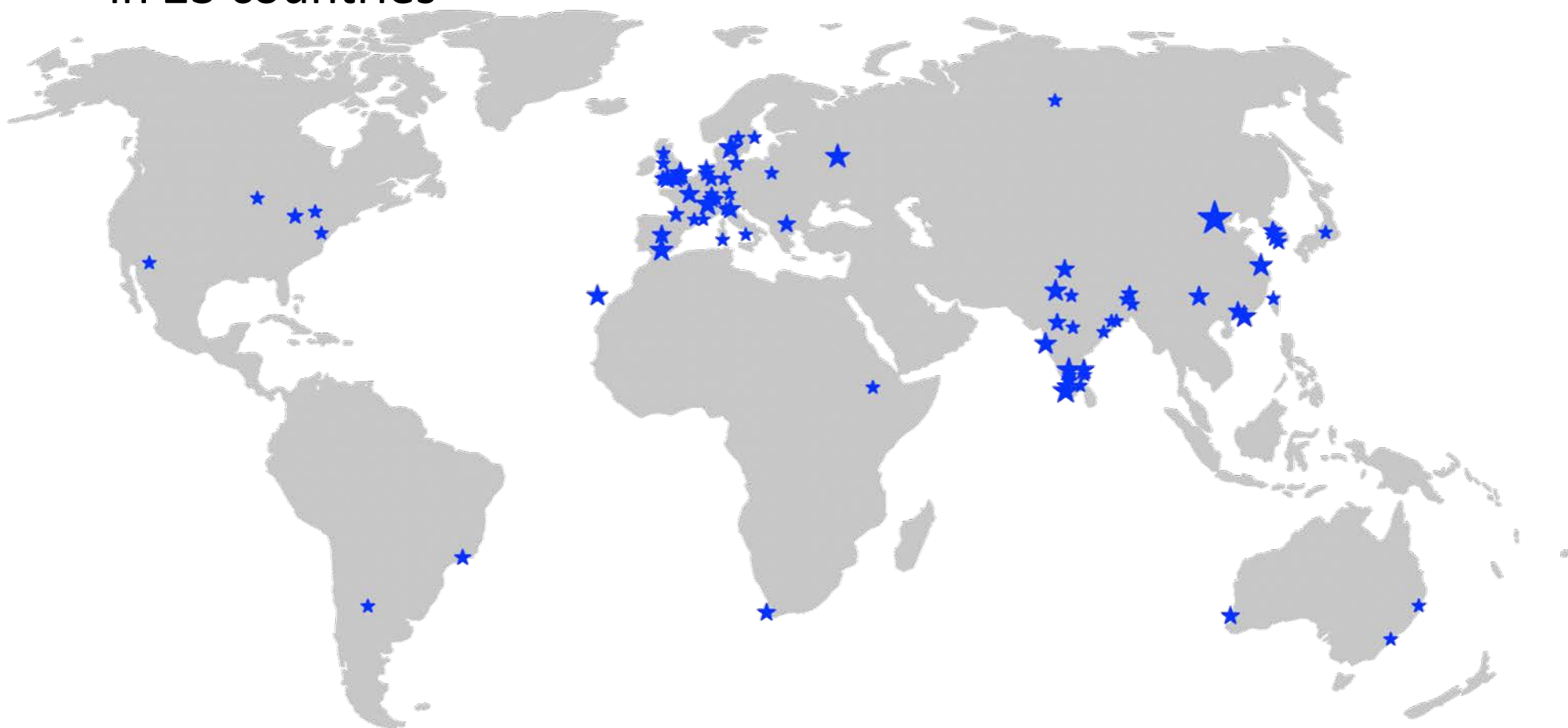


SDC2 timeline

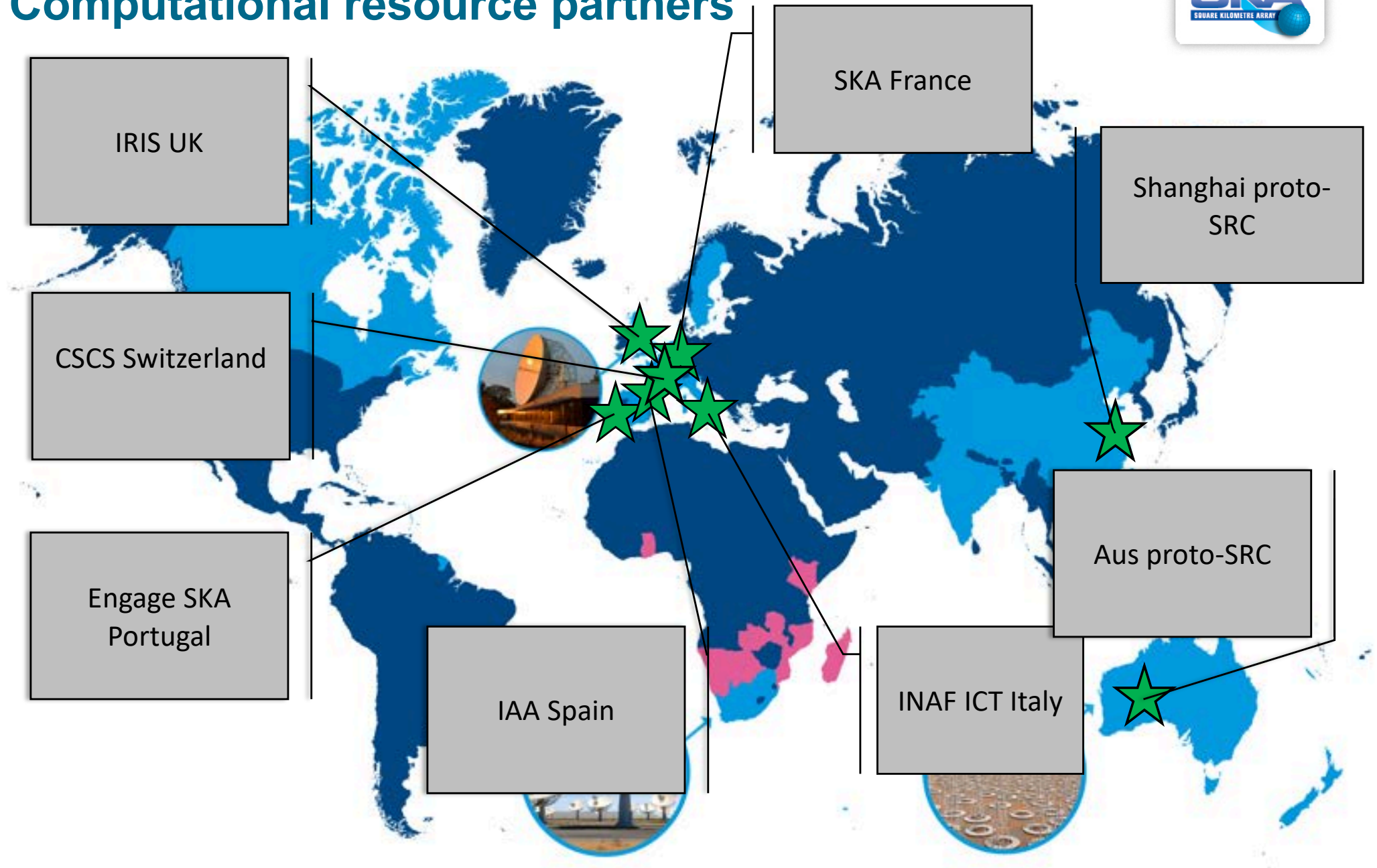
- October 31st: Close the expressions of interest call
- Mid November: Open challenge registration
 Pair teams and resources
 Test dataset transfer and scoring code
- December: Validation cube available
- January: Teams getting set up on HPC centres
- February 1st: Challenge processing begins
- July 15th: Challenge ends
 Winners announced
 Feedback sought from participants
 Feedback sought from facilities

SDC2 Participating Teams

- 40 Teams with total of 276 participants, from 80 institutes in 23 countries



Computational resource partners



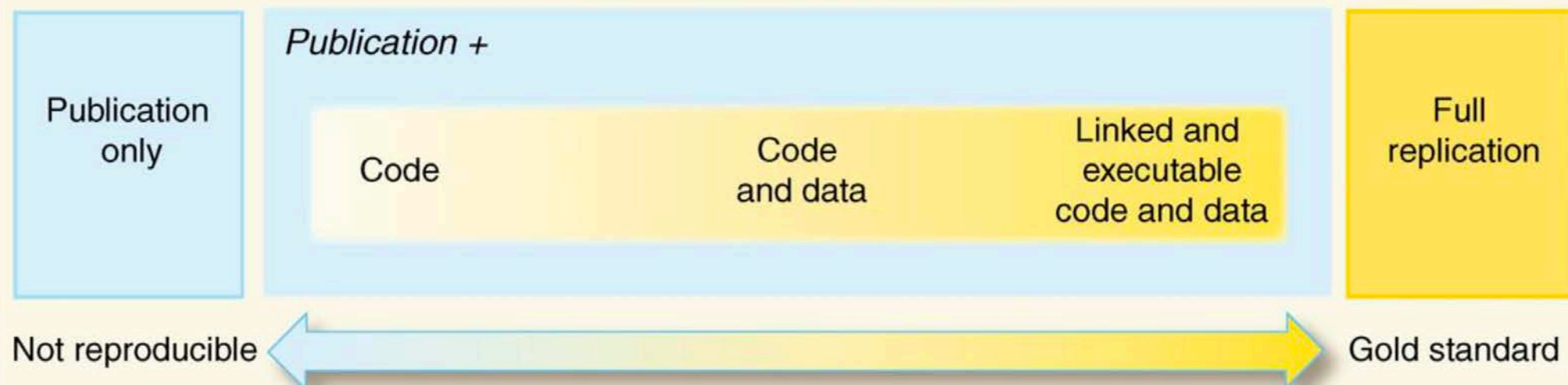
Reproducibility awards

In partnership with the Software Sustainability Institute



www.software.ac.uk

Reproducibility Spectrum



AOB

- Cosmology SWG Meeting (Stefano/Laura)
- ???

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