

SKA update

ATUC

30 October 2019





Opening of new SKA HQ







Preparation for Treaty Organisation

Council preparatory taskforce (CPTF)

- Provisional Observatory Council
 - 7 signatories attend plus 9 observer countries
 - Focus on Tier 2 documents (sit below top Convention, Finance and P&I policy)
 - IP, Access, Operations
 - Procurement policy
 - Initial funding schedule
 - Transition to SKA Observatory Intergovernmental Organisation



Ratification

- Netherlands first country to ratify
- Australia in process Parliamentary Committee hearing held
- Need 3 host countries plus two others to ratify
- Expect first Council meeting mid-2020





Bridging - Transition to construction

- Final design work in preparation for procurement
 - CSIRO involved in Site infrastructure, DSP, computer networking & timing, integration & commissioning, software
- Schedule
 - System CDR December 2019
 - Implement changes from CDR Feb March 2020
 - Construction proposal to Council mid-2020
 - Approval by late 2020
 - Procurement document creation Q3-Q4 2020
 - Construction 2021



Cost estimates

- Restructure of costings to make Observatory costs clearer
- Construction cost now 918 mEuro (excluding Observatory costs)
 - Cost cap 691 mEuro
- Deployment baseline
 - Will depend on actual funds available
 - Options
 - Scale current deployment baseline
 - Stop deployment at Array Assembly 3 (half of antennas)
 - Change technology choices to save costs

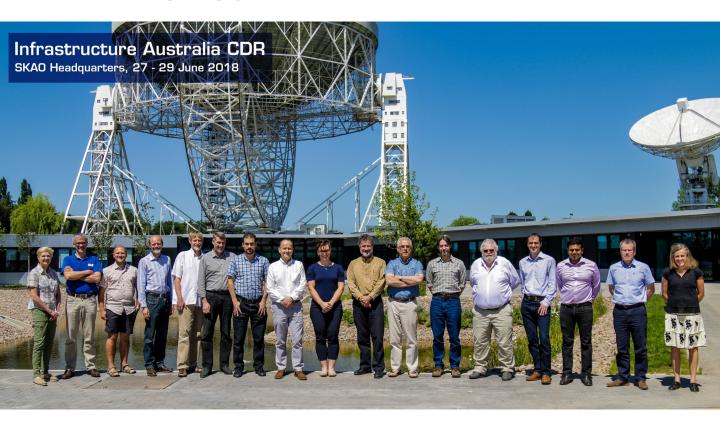
CDR Status – Jun 2019



Element	RRN Submission	CDR Submission	CDR Meeting	CDR Close*
ТМ	29 January 2018	28 Feb 2018	17-20 Apr	14 Jul 2018
SaDT & SAT	17 January 2018	28 Feb 2018	15-18 May 2018	Jan 2019
INAU	19 March 2018	30 April 2018	27-29 June 2018	Dec 2018
INSA	19 March 2018	30 April 2018	2-4 July 2018	Feb 2019
CSP	18 May 2018 - PSS Element CDR - PST Element CDR - CBF Low - CBF Mid	(includes LMC sub- element)	25-28 Sep 2018	Feb 2019
MeerKAT Integration			22 Oct 2018	29 May 2019
SDP Pre-CDR SDP CDR	09 Mar 2018 25 Apr 2018 17 Sepr2018 uccessful phase Oct 2018 Red: Changes since April Board		20-22 Jun 2018 15-18 Jan 2019	02 May 2019
LFAA re-planned	15 Oct 2018	05 Nov 2018	11-13 Dec 2018	30 Sep 2019
AIV	Oct 2018	30 Nov 2018	04 Mar 2019	15 Jun 2019
DSH Pre-CDR DSH CDR	17 Sep 2018 <u>TBD</u>	28 Sep 2018 <u>TBD</u>	26-27 Nov 2018 TBD	30 Jun 2019 (Pre) TBD
System CDR * Baseline close dates		13 Sept 2019 (Internal)	9-12 Dec 2019	<u>March 2020</u>



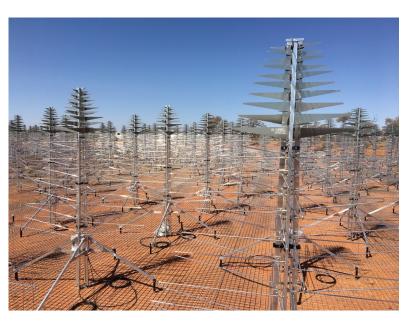
The Team



Bridging Station Calibration Task (Full 256 Station deployment)









SKA Construction priorities

- Council Preparatory Task Force has agreed provisional allocations
- Key Australian allocations
 - Infrastructure CSIRO as contract manager
 - Field node (collaboration with infrastructure) Italy, Curtin, UK, India, Netherlands, China etc.
 - Digital systems (correlator and beamformer) –Netherlands and CSIRO
 - Assembly, Integration and Verification CSIRO lead partner
 - Software UWA, CSIRO and Swinburne minor partners
- Majority of work to be delivered through industry contracts
- In-kind or cash Australian preference currently cash



Operations

- High level MoU under discussion covers:
 - Governance
 - Staffing
 - Australian Director employed by SKAO
 - Most other staff CSIRO
 - Budget
 - Site management, HSE, local stakeholders
- Key issues
 - Recruitment
 - Procurement
 - New Head Operations starts now Lewis Ball





Site establishment

- Heritage Surveys
 - Surveys still progressing some areas of deep significance found
- ILUA
 - Largely agreed
 - Awaiting creation / agreement on Proscribed Body Corporate
 - Internal Wajarri exercise
- Site Entity
 - Initial funds received
 - Recruitment commenced





Thank you

Click to WA AGKAPWLEDGA THE Wajarri Yamatji as styles the traditional owners of the observatory site

