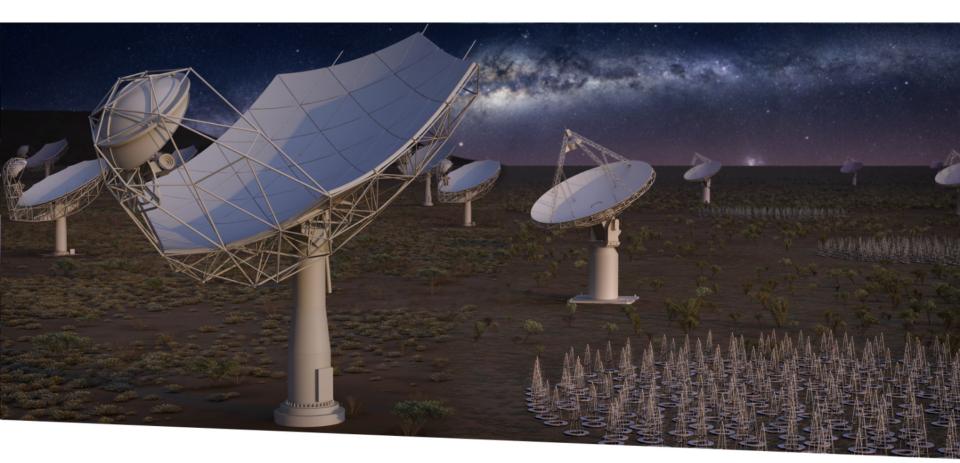
Policy Update SKA Engineering Meeting 2017: Rotterdam





SQUARE KILOMETRE ARRAY

Exploring the Universe with the world's largest radio telescope

Simon Berry 12th June 2017

Contents



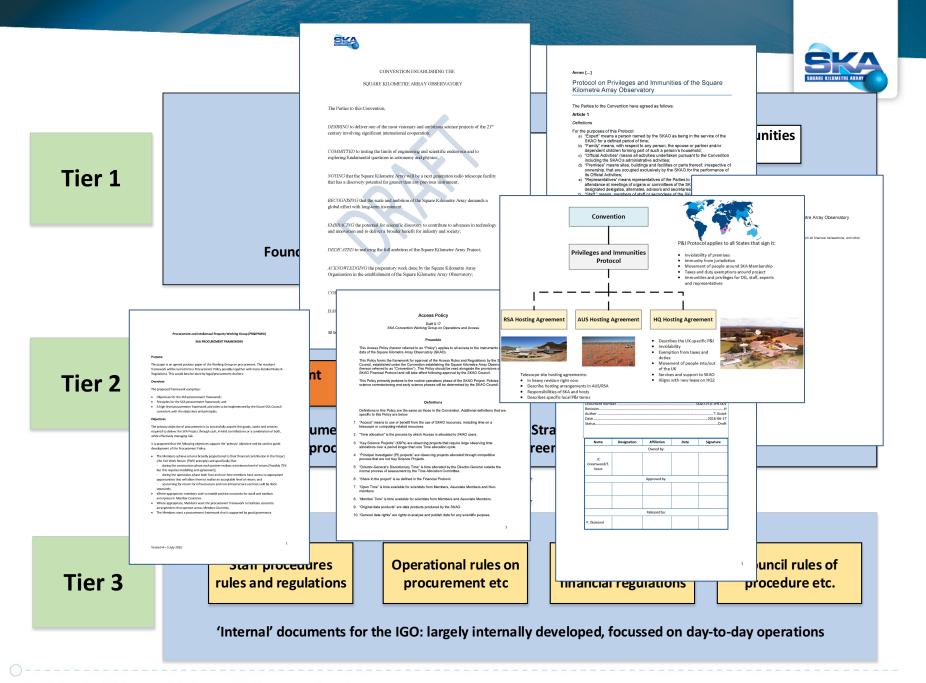
- (Best guess) timeline to the IGO
- Progress since last meeting
- Forming the IGO and transition
- Procurement and IPR

IGO Negotiation process

- Plenary meetings completed September 2016
- Focus now on 'Convention Task Force' essentially a working group of Delegation Leaders
 - Several meetings since October
 - Focus on the Tier 1 texts: Convention, Financial Protocol and P&I Protocol
 - Range of issues still in play some editorial, some more substantive
 - Next discussion on exactly what information is needed for signing documents/policies/'technical information'
- 'De-linked' model: provides a little breathing space:
 - Means initial focus is on establishing the organisation, not SKA1 construction
- Procurement policy and IPR policy: working meeting late June







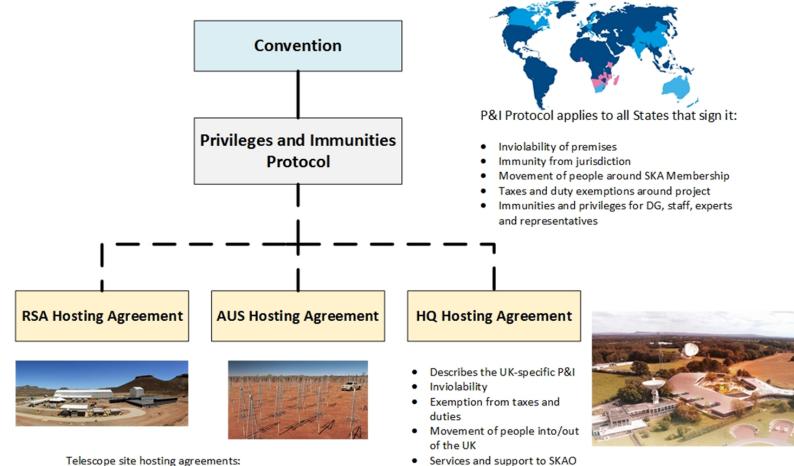
Organisation membership summary



- Future organisation (IGO) 2018 onwards:
- Assumes 'State' involvement in project, and representation by federal body
- Detailed process still in discussion at present, but some areas clear on membership:
 - <u>Members</u> (States) contributing to construction and operations → full access/industry access rights
 - <u>Associate Members</u> (access/industry etc terms to be agreed....)
 - Collaborating bodies (.....much less clear....)
- Joining process (and perhaps financial assumptions) depends on timing –

Hosting Agreements





•

Aligns with new lease on HQ2

- In heavy revision right now
- Describe hosting arrangements in AUS/RSA
- Responsibilities of SKA and hosts
- Exploring the Universe with the world's largest radio telescope

High-level IGO timeline

Now to July+: Convention Task Force at work:

- Finalising the Convention text and other 'treaty-level' documents
- Bilateral discussions with each country
- High-level discussions on procurement principles, other critical issues
- Governments preparing to 'initial' the documents

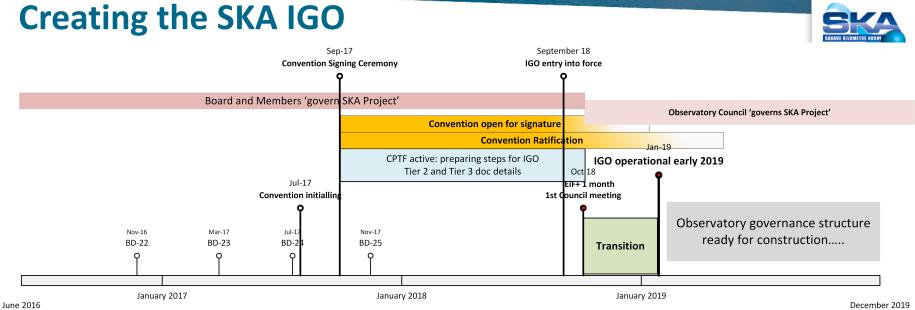
~July+:

 Documents 'initialled' to mark end of negotiation process; governments prepare to sign the Convention

Best guess – September:

- Signing event for negotiating governments most sign in one go, others when ready
- Ratification of Convention by governments begins
- 'Proto IGO Council' starts work preparing for IGO policies, the transition from the company etc

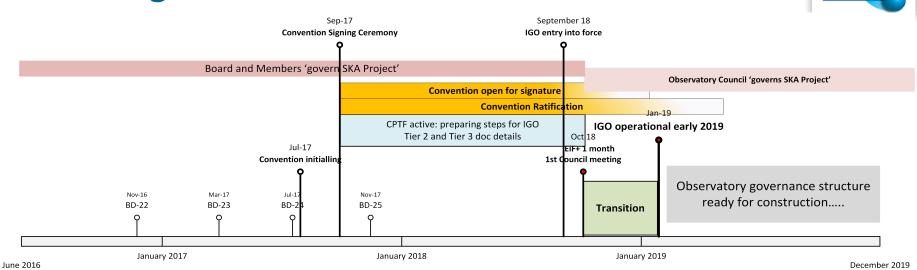
Creating the SKA IGO



The things we know:

- IGO 'enters into force' when 5 countries (including UK, AUS and SA) complete ratification of the Convention
- At some point TBD we transition assets and responsibility for the project to the IGO: ٠ between now and then, much preparatory discussion on all issues
- Once there is a critical mass of ratified countries (and money and 'a plan') the IGO Council can approve SKA1 construction
- Once that happens, we move into a phase of preparing for procurement

Creating the SKA IGO

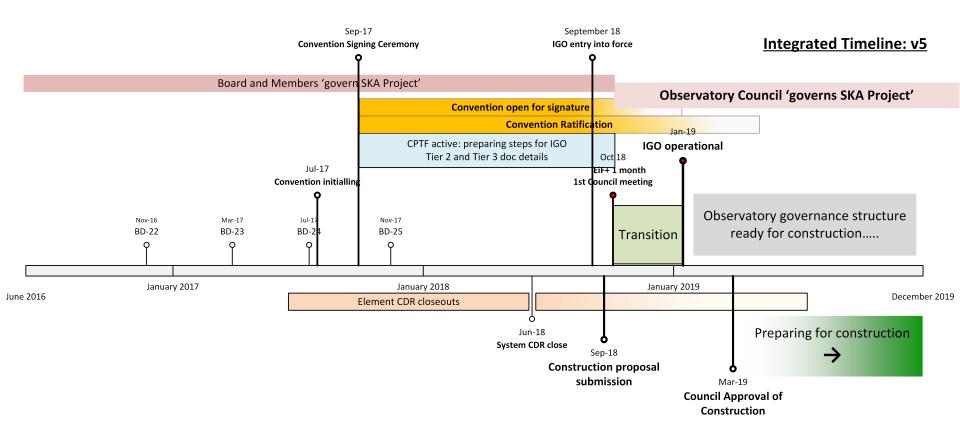


The things we <u>don't</u> know:

- When will the IGO 'enter into force'? <u>Best guess 12+ months after signing</u>
- When do we transition and have an operating IGO? <u>Best guess early 2019</u>
- When will there be a critical mass of ratified countries (and money and 'a plan') so that the IGO Council can approve SKA1 construction? <u>Best guess later in 2019</u>

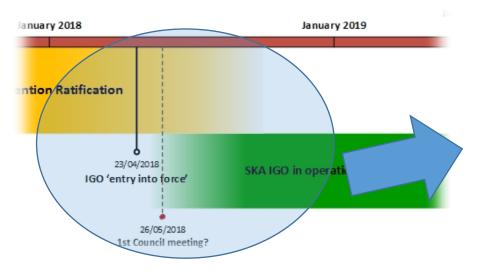
The full picture...





Transition to the IGO





Transition:

 Establishment of a functioning SKA IGO and transfer of activities from the SKA Organisation

Organisation transition:

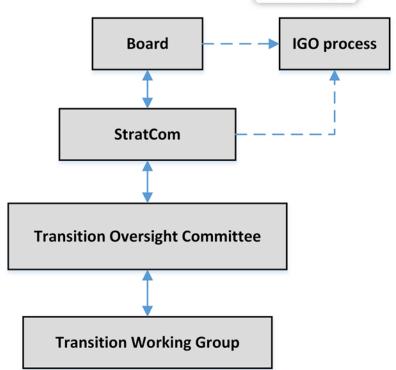
- Legal mechanics of establishing the IGO and moving from SKA Ltd to SKA IGO being explored
- Asset transfers IPR register, agreements, physical assets, personnel etc
- Governance change from Board to Council

Programmatics:

- Completion of design process and its timing wrt the transition
- Preparation for construction decision
- Moving to implementation: planning the financial arrangements

Transition cont'd

- Internal team in place
 - Coordinator: Theresa Devaney
- Working within reporting structure to Board and IGO process
- Next set of plans to Board in July
- Once established, Council Preparatory Task Force (CPTF) will be important actor
 - Preparing many of the initial decisions
 - Negotiating initial financial arrangements
 - Preparing how the IGO will look



Transition Core Team:

- Simon Berry (Policy, SLT owner)
- Theresa Devaney (Transition Coordinator)
- Theunis Kotze (Policy, Legal)
- Qiming Wang (Policy)
- Andrew Taylor (HR)
- Faiza Saban (HR) from May 2017
- Helen MacDonald (Finance)
- Warren Bax (Finance) to March 2017



Procurement



- New Head of Procurement Services: Ian Hastings
- Three areas of activity:
- 1. Building overarching organizational capability and capacity to transact procurements for SKA-1 construction project:
 - Overarching procurement processes (implementation of an enterprise system to facilitate expected ramp-up in transactional workload)
 - Development of appropriate procurement business controls
 - Development of an appropriate HQ procurement structure and subordinate business procedures

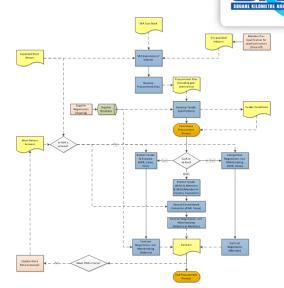
Procurement



- Collaborating with Members to develop SKA Observatory (IGO) procurement rules/policy:
 - Broadly aligned with peer organisations such as CERN, ESO, ITER etc.
 - > Appropriate governance and oversight structure
- 3. Development of an outline SKA-1 Procurement Plan and strategy for managing the SKA-1 construction project macro supply chain(s)

Procurement

- Key founding points:
 - Each Member should receive 'fair work return' from investment
 - Ability to manage both 'cash procurement' and 'inkind' activities
- Excellent progress made:
 - Methodology and convergence on what constitutes 'fairness' in terms of process
 - The steps around an initial exploratory expression of interest to inform SKA1 Procurement Plan
 - Managing the approach to varying interest in cash and in-kind tender responses – general support for draft process, but further discussion needed



SKA Outline Procurement Principles and areas of common understanding:

Following a series of working sessions and negotiations under the auspices of the SKA Observatory Convention Task Force, the Negotiating Parties have reached a common understanding on several principles that will inform the development of:

- A Procurement Policy for approval by the Council of the SKA Observatory; and
 Detailed Procurement Procedures for approval by the Council of the SKA Observatory, and
- Detailed Procurement Procedures for approval by the council of the SKA Observatory, and underpinning the day-to-day activities of the SKA Observatory
- In its work the Negotiating Parties have been cognisant of:
- Article 12 of the Draft SKA Observatory Convention, which specifies certain provisions around Procurement;
- The definition of 'Fair Work Return' as specified in the Draft SKA Observatory Convention; and
- The statement 'Understandings on Fair Work Return' agreed by the Heads of Delegations at IGO4

The agreed Principles and areas of common understanding are as follows:

1. Governance:

- 1.1 Procurement activities shall be centrally-managed, equitable, and transparent and the SKA Observatory procurement function shall be accountable to the Council, as stated in the Observatory Convention
- 1.2 A Procurement Oversight Committee shall be established to develop, implement and oversee the SKAO's overarching procurement strategy, including Procurement Policy, Procurement Procedures, Work Return Policy and oversight of the SKAO Tender Committee.
- 1.3 Members will have the right to nominate one participant to sit on the Procurement Oversight Committee; the Committee shall elect a Chair and Secretary, the SKAO Head of Procurement Services shall act as a non-voting advisor to the Committee.

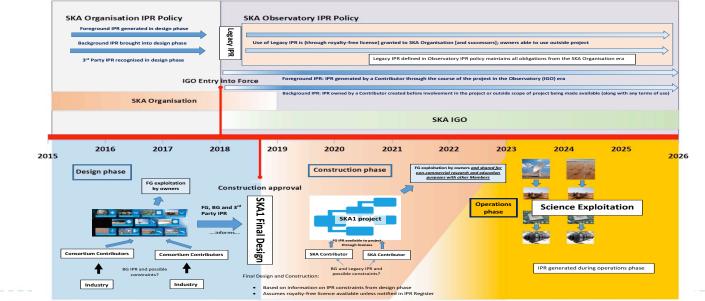
2. SKAO Preferred Methods of Procurement:

- 2.1 Unless there are sound economic or operational arguments for an alternative methodology competitively tendered procurements will be awarded on the basis of "lowest priced technically qualified bidder".
- 2.2 A two part Expression of Interest process is planned, an exploratory and non-binding Expression of Interest package aballe be forwarded to Nembers asking them to declare an interest in a range of work packages. The returns from Members will be used by the SXAD to inform the Procement Plan. As and when construction requirements are firmed up, and in accordance with developed Procurement Plans, SXAD shall relases further detailed Expressions of Interest to Members on a work package by work package basis.
- 2.3 Pre-Qualification of entities supplying goods, services and work for use in construction of the SKAI shall be carried out by Members in accordance with guidelines to be issued by the SKAO.

IP Policy



- Issues now:
 - Ensuring the IPR register is fit-for-purpose
 - Ensuring current IPR picture in design phase is fully understood
- Issues for IGO era:
 - Finalising the IPR policy and detailed understanding
 - Understanding the transition to the construction phase alongside the legal transition to the IGO



Meetings this week



- <u>IP meeting:</u>
 - Tuesday: 1100 1200 Auditorium
 - Meeting with consortium personnel to discuss issues and actions needed now
- Industry contact point meeting:
 - Tuesday: 1400 1600 Auditorium
 - Discussion with national contact points for industry engagement on current tasks, issues and future plans

Summary



- In the final stretch towards signing the Convention:
 - Final steps on 'legal docs' and high level policies, final steps to ensuring all parties have what they need for signing
 - Planning what happens once signing has taken place
 - Board will continue to run the design process
 - 'Council Preparatory Task Force' to take on preparatory steps towards the structure of IGO and how it works
- Internally:
 - Planning how the establishment of the IGO and the transition from SKA Organisation happens
 - Ensuring there is a coherent timeline across policy and engineering
- SKA Engineering 2018?

SQUARE KILOMETRE ARRAY

