



**"Exploring the Universe with the
world's largest radio telescope"**

**2010
Annual WP2 Meeting**

Beyond PrepSKA

Kobus Cloete

27 October 2010



Overview of talk

SPDO

- Phases
- PrepSKA and the Preparatory Phase
- Phase 1 Pre-Construction Phase
 - Project Execution Plan



Phases

SPDO

SKA Preparatory Phase

Detailed Design,
Production Engineering
& Tooling

Phase 1 Construction,
Verification,
Commissioning,
Acceptance,
Integration & First
Science

Phase 2 Construction,
Commissioning,
Acceptance, Integration
& First Science

SKA Operations

2009 - 2012

2013 - 2015

2016 - 2019

2018 - 2023

2022 onwards

SKA Preparatory Phase

Phase 1
Pre-Construction
Phase

Phase 1 Construction,
Verification,
Commissioning,
Acceptance,
Integration & First
Science

Phase 2 Construction,
Commissioning,
Acceptance, Integration
& First Science

SKA Operations

2009 - 2012

2013 - 2015

2016 - 2019

2018 - 2023

2022 onwards



PrepSKA and the Preparatory Phase

SPDO

SKA Preparatory Phase
2009 – 2012

Phase 1
Pre-Construction
Phase

2013 - 2015



PrepSKA and the Preparatory Phase

SPDO

SKA Preparatory Phase
2009 – 2012

PrepSKA
2009 - 2011

Phase 1
Pre-Construction
Phase

2013 - 2015



Project Execution Plan

SPDO

- Was commissioned by the SSEC and ASG
- Develop a plan for the work to be done during the Phase 1 pre-construction phase
- Tiger Team was assembled to develop the plan
- Has been submitted to the SSEC and ASG for review and discussion (this week)



Goals of the Pre-construction Phase

SPDO

1. Progress the SKA design to Production Readiness
Review stage and let contracts for construction of major sub-systems
2. Progress infrastructure roll-out on selected site to allow sub-systems to be deployed
3. Mature the SKA legal entity into an organisation capable of carrying out the construction, verification, and operation of the telescope



Goal of the PEP

SPDO

Provide Funding Agencies and Governments with the appropriate information to allow them to assess the feasibility and scope of the work proposed and, in some cases, facilitate the funding of the Pre-Construction Phase



Table of Contents (1)

SPDO

1. Summary
2. Management strategies and philosophies
3. Science drivers
4. System description
5. Science and technical pathfinding that informs the pre-construction Phase
6. Description of Work
7. Management
8. Risk strategy, Risk management
9. Technology and Industry plan
10. Outreach
11. Socio-economic return of the SKA



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SPDO

Appendices

1. Science and technical pathfinding that informs that pre-construction phase
2. Detailed description of work, milestones, deliverables, and resource requirements
3. High level schedule
4. Definition of readiness levels and sub-system rankings
5. A. Staffing plan for the SPO
B. Roles and responsibilities of SPO staff

- To be discussed by SSEC and ASG
- Update PEP (if required)
- To be utilised by Funding Agencies and Governments with the appropriate information to allow them to assess the feasibility and scope of the work proposed and, in some cases, facilitate the funding of the Pre-Construction Phase
- Establish SPO and fund the next phase

