## GSO Framework for Global Research Infrastructures and How the SKA Aligns

from their early developmen

The SKA will be the world's largest Australia, the infrastructure w offer a transformational increa on study of the most fundamen and cosmology, whilst also being designed to address more fundamental physics problems whic span into other sectors. SKA will operate in an environment where similar generational shifts in scale and ambition are being planned and executed in other areas of astronomy. As such, SKA will play a leading role in the growing world t astronomy' alongside comparator ground and space-based mission and observatories. SKA's science is being planned by a global community of researchers, its technology and engineering by a collaboration that spans twenty countries, and its exploitation will be facilitated by a global network of coordinated regional science centres, establishing a new

2. Defining project partnerships

Global Research Infrastructures participation should be defined to

a UK company structure in which company is responsible for the pr Office at Jodrell Bank, UK. In time for construction and later operation the SKA Observatory will be founded as an intergovernmental organisation bound by a Convention. This IGO partnership will assume responsibility for all aspects of the infrastructure in particular working closely in partnership with the three hosting nations to ensure delivery, operation project. The SKA Observatory is being established as a global collaboration for radio astronomy, into which, at the Council's approval, new partners

and cooperation is the ambition.

scope, cost and schedule plans.

Observatory Council will have overall control of ensuring adherance to the

at the international level, to ensure

review practices and oversee

will be addressed in a combination of the negotiation of the SKA1

Research Infrastructure should foresee a careful balance between the appropriate level of in-kind

Funding Schedule (describing the % contributions from members) and

6. Periodic reviews

regarding quality and schedule.

in the procurement process. These

of procedure for the future SKA

ensure appropriate governance

appropriate, weighted to reflect

contribution to the project.

IGO Council are being designed to

authority for all stakeholders, where

ensure consistent excellence of services offered to the scientific

must enable each nation to fulfil its roadmapping efforts in their own national and regional domains, and this will undoubtedly continue in the SKA Observatory era of construction and operation. In addition, the current Board commissions periodic discussions will commence soon. management and topical strategic reviews as required. The rules

Planning for termination or Infrastructures should be periodically should be established early in the development of the facility where possible or relevant, by defining the scientific output. In addition, assessment of the quality of the and establishing exit criteria and procedures for closing down and of the infrastructure. Partnership agreements among funding agenc

> for AUS, RSA and UK describe the obligations to define detailed decommissioning plans and the arrangements around such planning.

be primarily for SKA Observatory

to ensure that appropriate tools

are available to ensure the open

science goals and ability to ensure

interdisciplinary research is enabled.

and transparent access goal. The g emergent ideas, regardless of the

> to non-members (although the significant 'large legacy programme arrangements likely for SKA will allocation process that will reflect best practice. In common with many other observatories, observational data will be subject to a proprietary period before being made open to al with mechanisms being implemented

Global Research Infrastructure access to scientific experiments

> around the world in SKA Membe of the central Observatory, these infrastructure itself and will a will provide the backbone of the global SKA science data network and project partners are playing leading role in the development of very challenge of the project providing a driver to push technologies.

Many Global Research Infrastructures

presently. The project has committed

o following the 'FAIR' principles

n all aspects of its policies and is

globally to ensure that appropriate

systems are in place. In particular

our user communities are working

using the range of SKA 'Precursor'

to develop pathfinder approaches

instruments and infrastructures.

working with a range of stakeholders

produce are of value and utility to a

(4) alignment with community standards and practices, including standards for openness, while respecting the "as open as possib as closed as necessary" principle SKA's detailed data management and access policies are being designed

the Global Research Infrastructur

should be actively encouraged.

initiatives (for example in the H2O20 joint approaches to access, time allocation and other matters. Specific to radio astronomy, these might link to other programmes (eg the UK's DARA programme) to facilitate researcher/engineer mobility.

Measures to facilitate the internation Infrastructures should be promote

staff globally. The infrastructur

SKA's decision to move to IGO

Global Research Infrastructures and strategies for the promotion

n good practices regarding property rights management; ar 2) the sharing, exploitation and

generated by usage of the GRI.

Organisation works with its Members through an industry liaison network develop a coherent approach o engagment with industry and novation transfer. The intellectua property policy has been designed to achieve an appropriate balance between ensuring access to IP for the design of SKA and encouraging ndustry participation. The Observatory era IP policy is being developed presently, again attempting to encourage maximum opportunity t encourage and exploit innovation.

The socio-economic impact and beginning but during the lifecycle also to the OECD Global Science Forum work on the socio-econom

in the GSF workstream on sociosupport national study efforts as we ensure it is embedded in all aspect of the project's work, enabling useful data to be available to all stakeholders

impact of Research Infrastructure.



paradigm in the field of astronomy.