



# 1st Australia-China SKA Big Data Workshop

## Hackathon

10 - 13 April 2017, Shanghai, China



### Ten themes

1. Signal and Data Transport
2. Telescope monitoring and control network and software at SKA scale
3. Near real-time, imaging and non-imaging algorithms and software components
4. Execution frameworks and software systems
5. Collaborative data reduction support software
6. Data management software systems
7. Data mining technologies
8. Hardware platforms for all of the above
9. Global data dissemination at SKA scale and VO software and technologies
10. Applicable advanced or future technologies



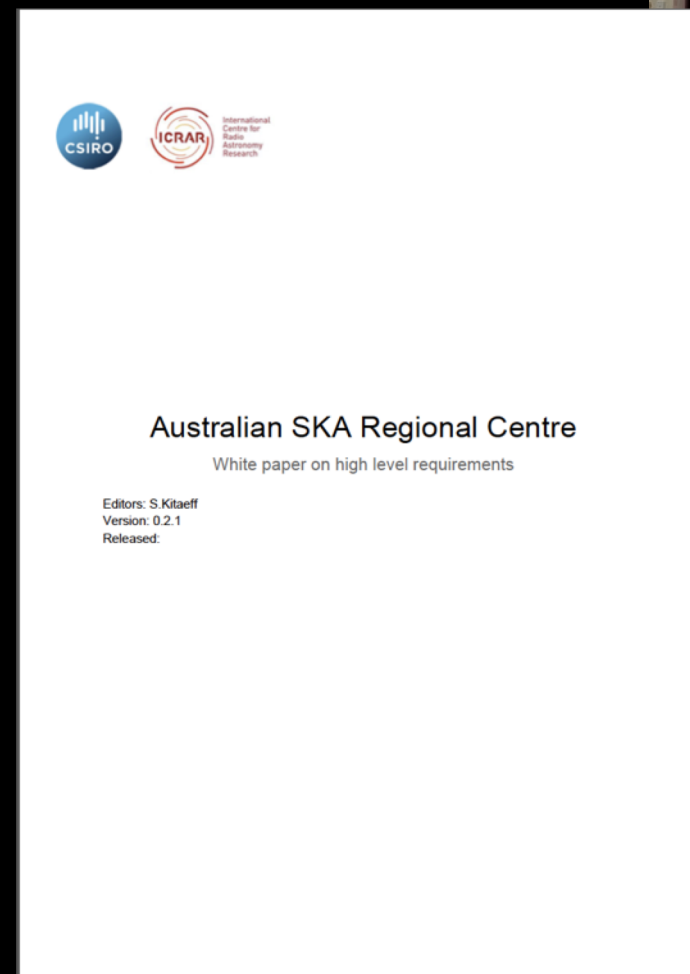
<https://www.icrar.org/conferences/ska-big-data-workshop-2017/>

**27-29 November 2017, Perth**

- Overviewing the current activities, science and technical projects that are within the scope of SRC.
- Developing the high level requirements and a roadmap for the Australian SRC, with an initial focus on data from the Australian precursors (MWA and ASKAP).
- Discussing collaboration and common goals of the Australian SRC with other SRCs around the globe, especially in the Asia-Pacific region.
- Learning from other international regional science centres around the world.

50+ discussion sessions in 2.5 days

<https://eridanus.net.au/?p=170>







# AusSRC Industry Engagement

19 March -Perth

4 April - Sydney

Australian Government  
Department of Industry,  
Innovation and Science

SKA  
South African  
Radio Astronomy  
Observatory

CSIRO

ICRAR  
International  
Centre for  
Radio  
Astronomy  
Research

PAWSEY  
supercomputing centre

## Australian SKA Regional Centre

Industry Information Session

With support

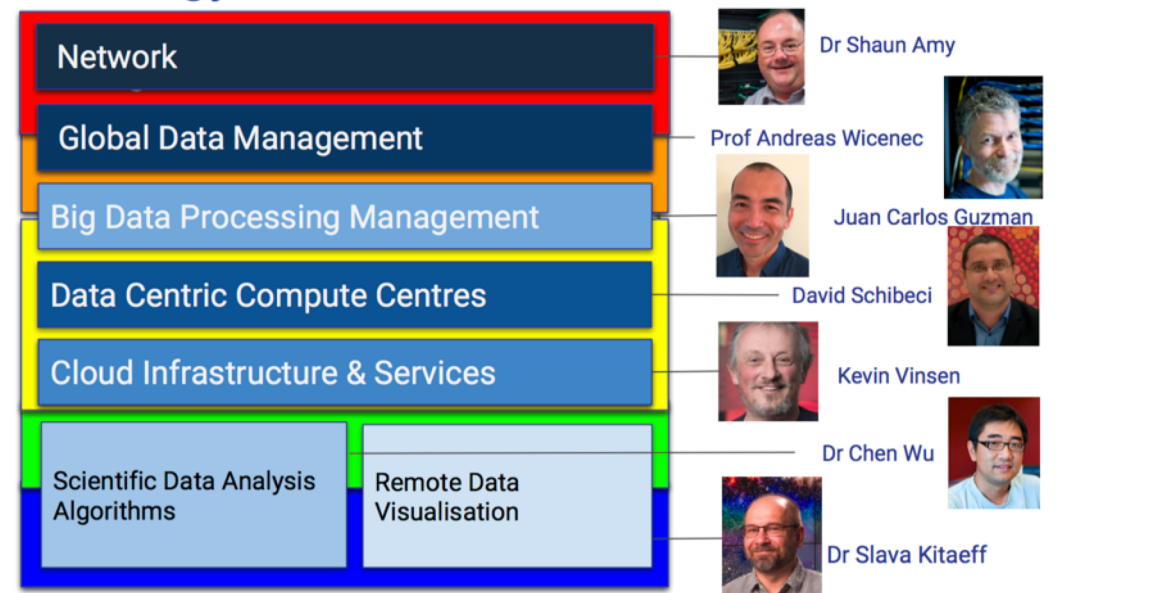
Innovation  
Central  
A collaboration led by

Atomic Sky

Over 100 companies (WA+NSW)

<https://eridanus.net.au/?p=182&rmcb=1521795787>

## Technology Stack





# 2nd Australia-China SKA Big Data Workshop

**Asia-Pacific SRC Prototyping  
(focused on ASKAP and MWA)**

**9 - 12 April 2018, Shanghai, China**

**ShAO**

## WORK PACKAGES

1. Data Transfer
2. Pipelines & Algorithms
3. Execution Framework
4. Global Data Management
5. Hardware/Software Co-design
6. System Integration



<https://www.icrar.org/conferences/ska-big-data-workshop-2017/>



- ★ Finalise national requirements and 3 year roadmap (Nov 2017- Q1 2018)
- ★ Apply for 3 year Federal seed funding (Q2 2018)
- ★ Engage with industry on collaborative design and prototyping (Q2 2018 +)
- ★ Develop prototype infrastructure with SKA precursors (in Aus and China) building on SKA pre-construction extension work of CSIRO and ICRAR plus ERIDANUS project (Q2 2017 - Q3 2021)
- ★ Respond to SRCCG data challenges (2019,20,21)
- ★ AusSRC major funding request for SKA1 (Q3 2021)