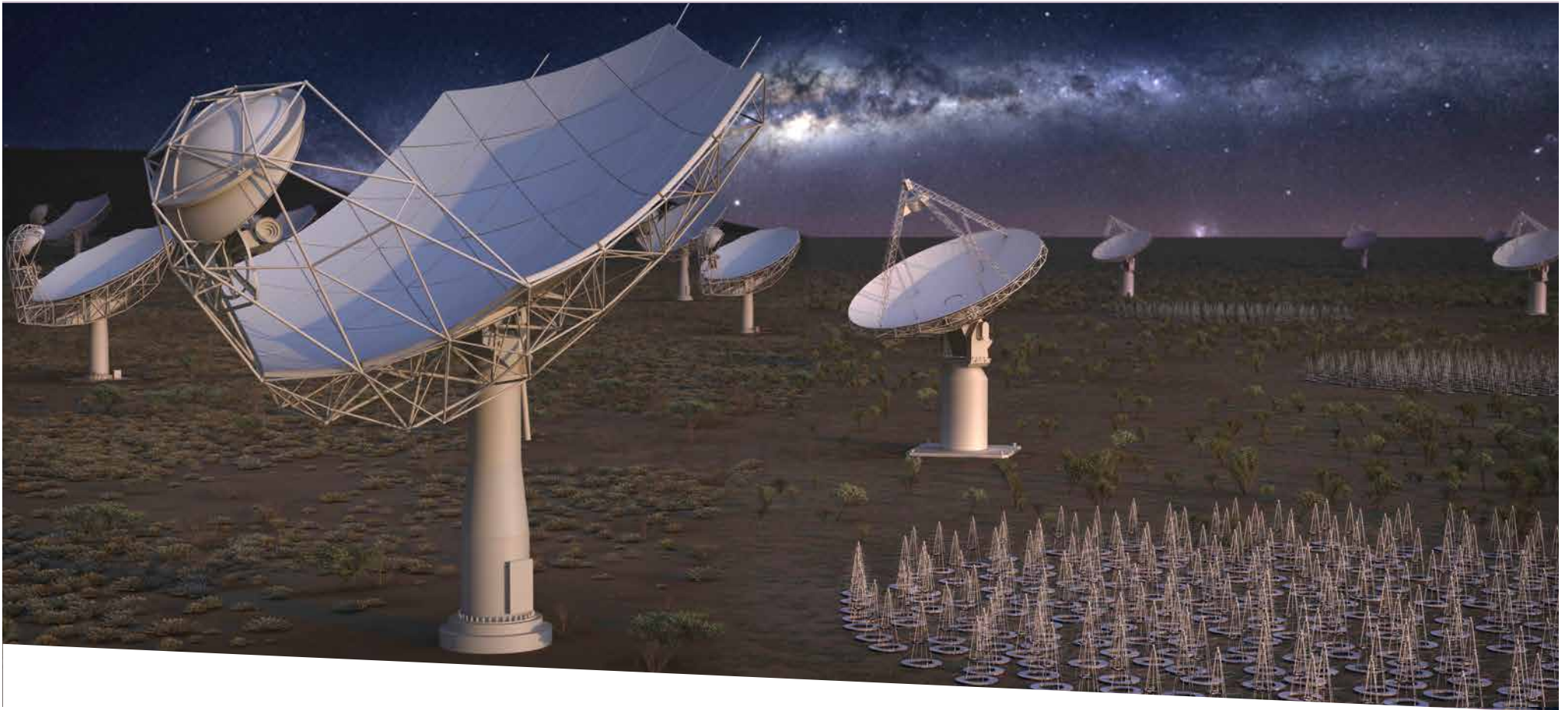


# SKA SWG Update



**SQUARE KILOMETRE ARRAY**

Exploring the Universe with the world's largest radio telescope

**Robert Braun, Science Director**

10 January 2017

# EWASS17, URSI-GA17, IAU-GA18

- EWASS-2017, Prague, 26 & 27 June
  - “Scientific Synergies enabled by the SKA, CTA and Athena” (Organisers: Andrea Possenti & Evan Keane, Xavier Barcons, Emma de Ona)
  - Six sessions of 1.5h
    - Athena – Other
    - CTA – Other
    - SKA – Radio
    - SKA – mm/sub-mm,IR
    - SKA – Optical, X-ray
    - SKA – Other (GW, particles,...)

# EWASS17, URSI-GA17, IAU-GA18

- URSI-GA-2017, Montreal, 19 – 26 August
  - “The SKA and its pre-cursors” (Organisers: Bock, Jonas & Braun)
  - Seven “technical” talks in two sessions

# EWASS17, URSI-GA17, IAU-GA18

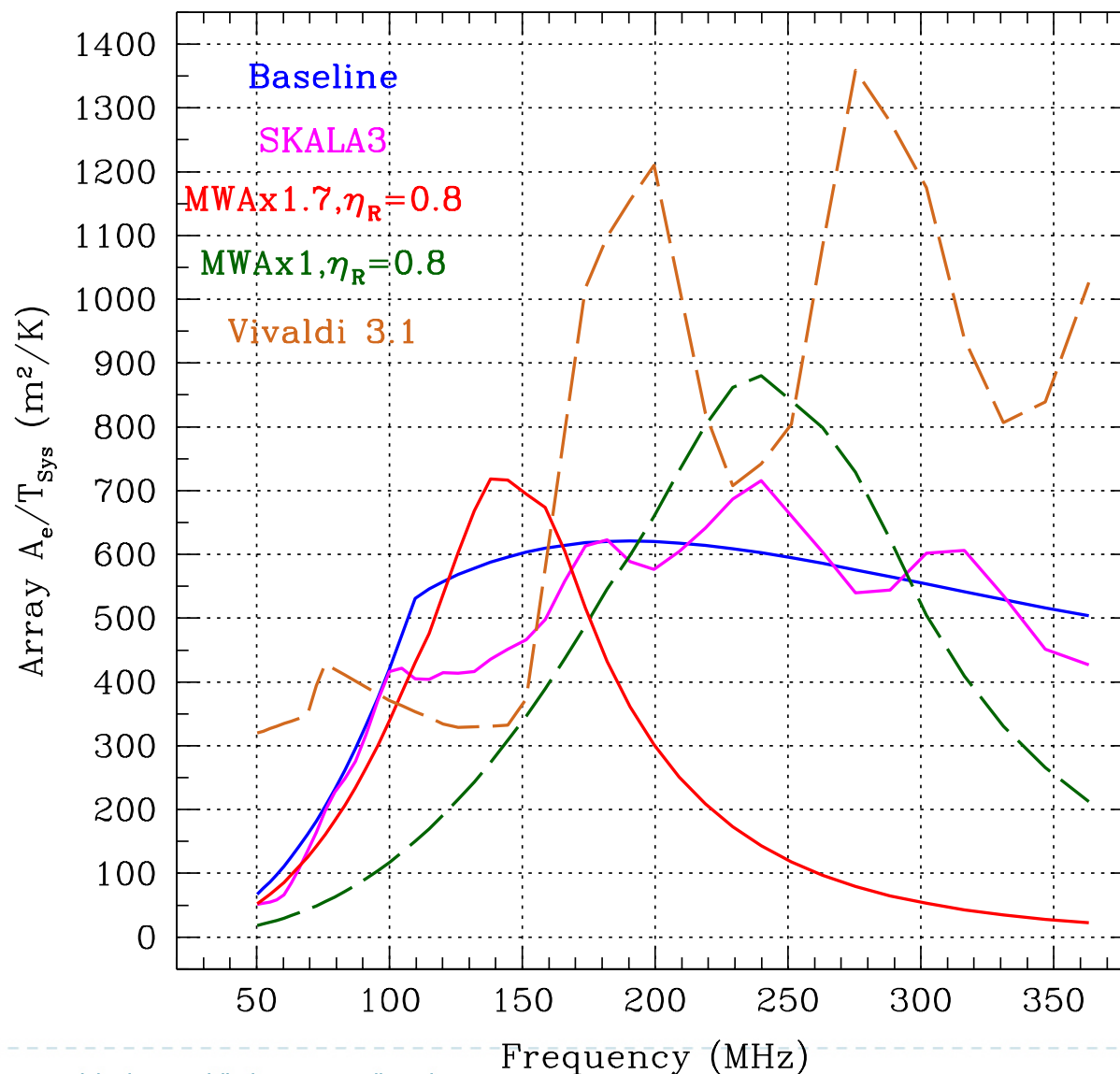
- IAU-GA-2018, Vienna Symposium Proposal
  - “Science with the SKA Precursors and Prospects for the SKA” (Organisers: Bock, Camilo, Wayth, Parsons, Braun)
  - Eight science (rather than facility)-based sessions
    - Session 1: Probing the origins of life
    - Session 2: Understanding the Sun and the heliosphere
    - Session 3: Testing general relativity
    - Session 4: The cycle of matter in our Galaxy
    - Session 5: Elucidating galaxy evolution
    - Session 6: Constraining theories of dark energy and structure formation
    - Session 7: Witnessing cosmic dawn and the epoch of re-ionisation
    - Session 8: New insights into transient events



# SKA1 Cost Control Action Plan

Ref	Work stream	Potential Outcome
1	<b>Review precursors and pathfinders</b>	Options that could be carried over
2	<b>Review alternative antenna designs</b> against SKA1 science requirements	Align on an effective design within budget
3	<b>Review Operating Model</b> for potential cost savings	Test assumptions against cost
4	<b>Review and critically evaluate Consortium cost estimates.</b>	Identify areas of highest potential impact for cost reduction.
5	<b>Review Identified Cost Reduction Options.</b>	Develop suggestions with most relevant savings
6	<b>Carry out review of requirements</b> to ensure there are no over-egged requirements that drive costs higher.	Reduce requirements on solution
7	<b>Carry out review of designs</b> to identify where over designed and relaxing design to specification can save budget	Remove any gold-plating
8	<b>Explore SDP Savings</b> taking into account roll-out of science cases	Resolution Team

# Precursor Technology Reuse Assessment



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[www.skatelescope.org](http://www.skatelescope.org)