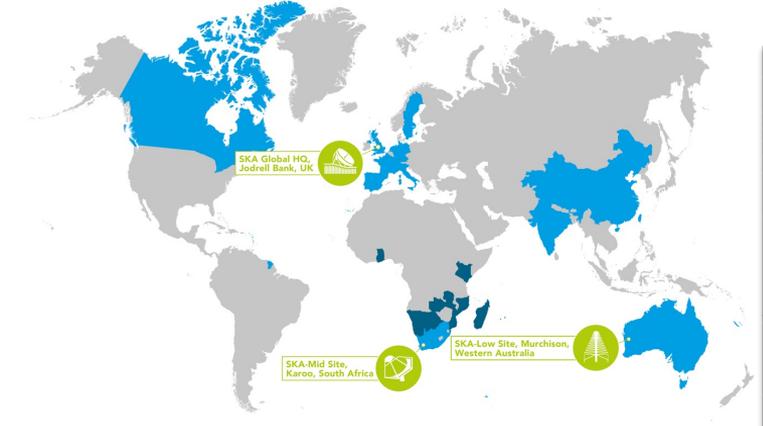
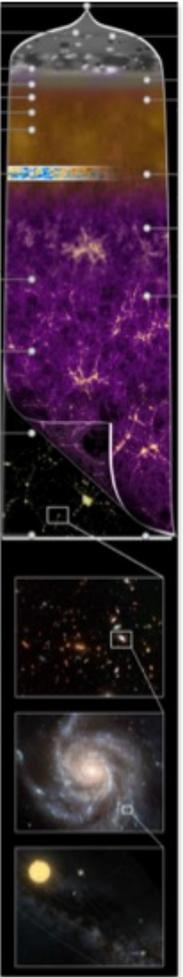


SKAO at a glance

- A new Inter-Governmental Organisation for astronomy and fundamental physics with 50+ year lifetime
- SKAO is now:
 - February 3-4, 2021: first SKA Observatory Council
 - July 1st, 2021: construction activity began

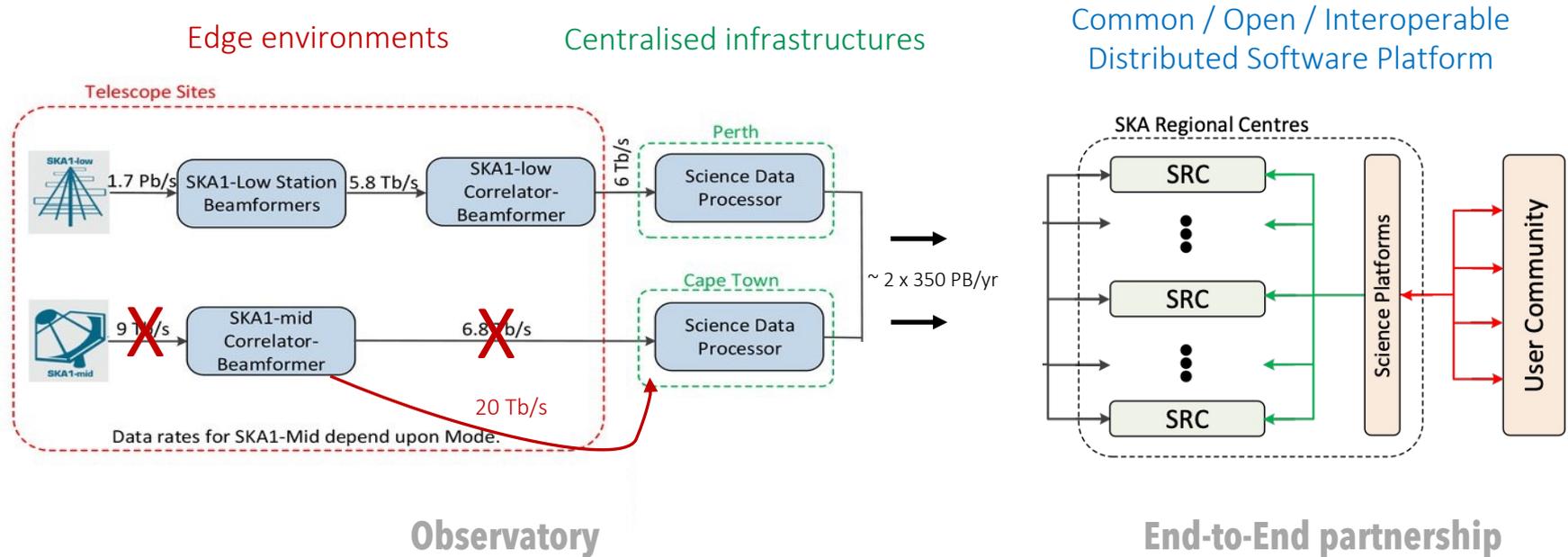


- A mega-science facility of the 21st century to provide capabilities to transform our understanding of the Universe
 - A very wide variety of science cases and associated science data products
 - Diverse and complex workflows (HDA, HPC, AI)



SKAO Data Journey

Energy: challenge for sustainability Reduce data movement / Co-design / Encourage re-use of calculations & data



SKAO & the HPC/HDA ecosystem

A combination of computations and data movement to integrate noisy information from spatially distributed sensors through a software platform of distributed services across a continuum of edge and centralized infrastructures

- Challenges surrounding wide-area multi-stage workflows (HPC, HDA, AI, Visualisation)
- Need to take into account the diversity of scientific workflow patterns
- Adapt or replace the legacy paradigm (stateless communication, stateful compute systems) with a Distributed Software Platform integrating computing, communication, and buffer/storage resources in a data processing network
- Offer a range of possible incentives to all stake-holders who would benefit from such convergence



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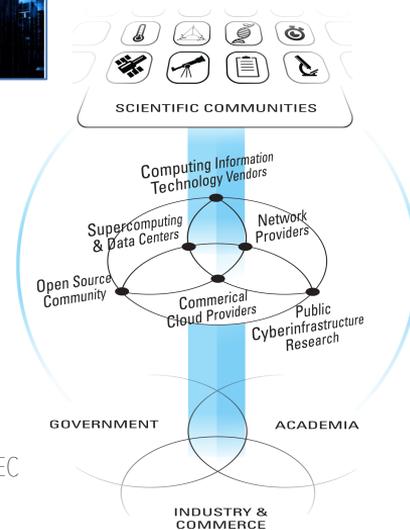


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