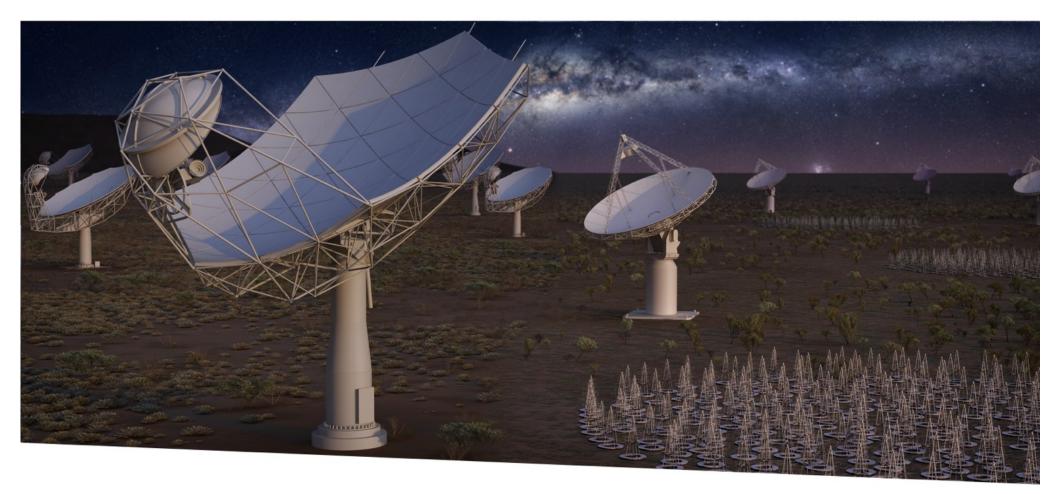
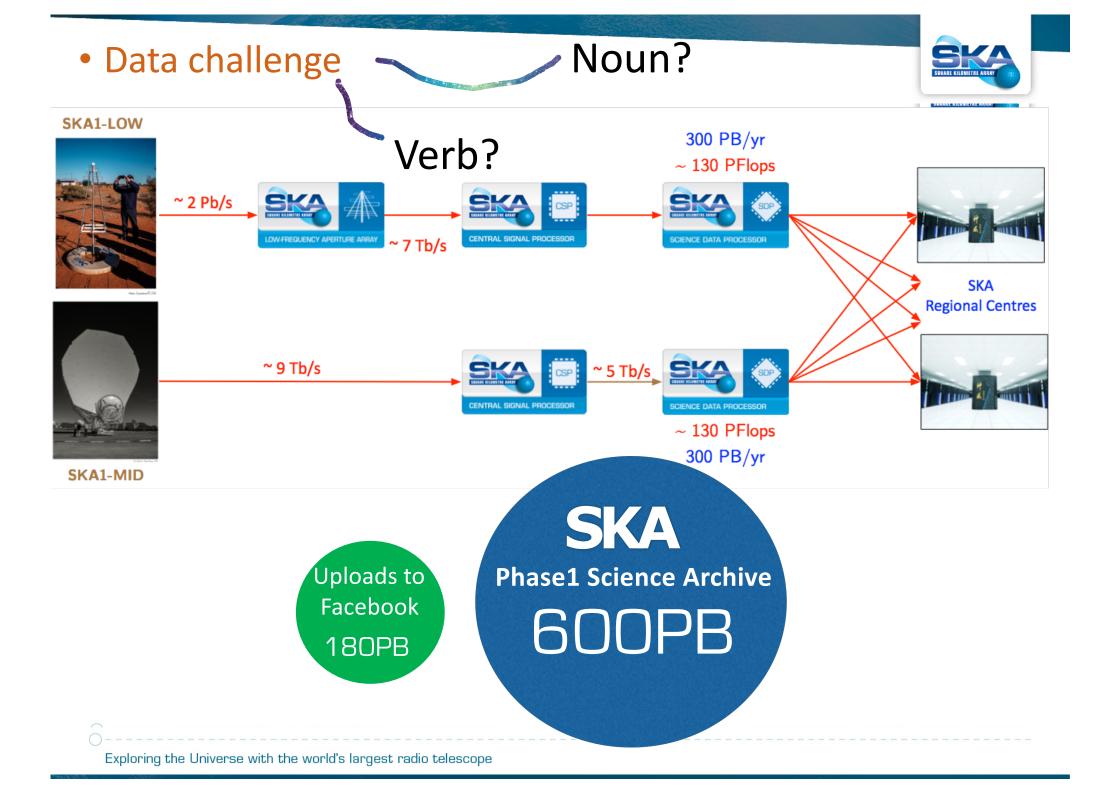
SRC Technical Data Challenges





SQUARE KILOMETRE ARRAY Rosie Bolton, SRC Project Scientist

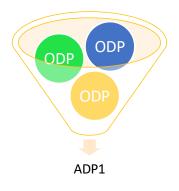
AENEAS March 2019



SRC Technical Data Challenges



Of the topics I mentioned yesterday, which enter new territory when we turn the dial up to SKA?

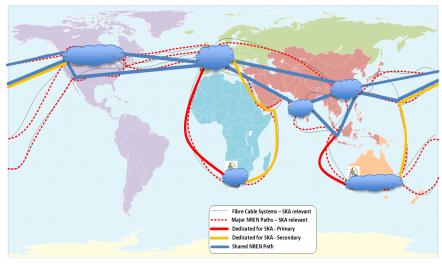








- Workload management compute and data placement
- Data Lifecycle, Quality of Service requirements
- Data interaction and visualization
- NREN/ International data transfer





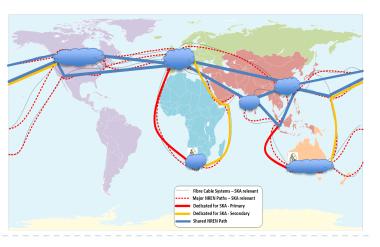
SRC Technical Data Challenges



- Data sets bigger
- Compute more sites, more complex workflows, richer data
- New proprietary data concepts c.f. HEP Many users, and user types (AAAI)
- Large data rates but large files too
- Large databases and catalogues
- VO integration
- Visualisation of large cubes (do we need to?, or smoothing hierarchy?)









Does that scale to the SKA era?

- The technical data challenges will need to address specific questions
- SRCSC must be involved we need global communities engaged in posing the questions and resourcing efforts to test solutions
- Direction will benefit from prototyping work from regional projects – specifically of course, AENEAS (please identify next steps), ASTERICS and from ESCAPE project.

