

SKAO IRIS Collaboration Meeting Update

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13 January 2026



SKATechOps & SKATechSDH&P

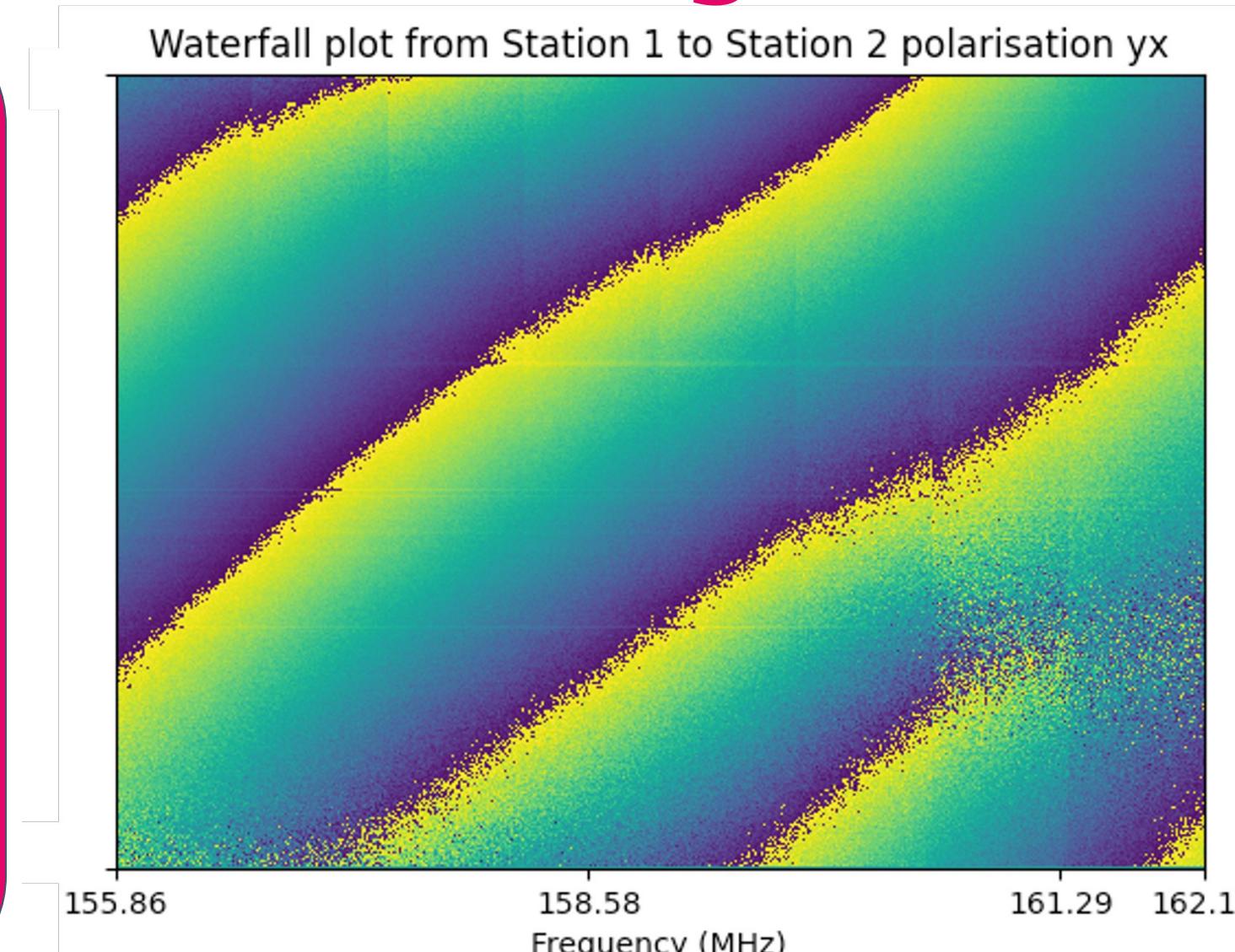


Software Construction

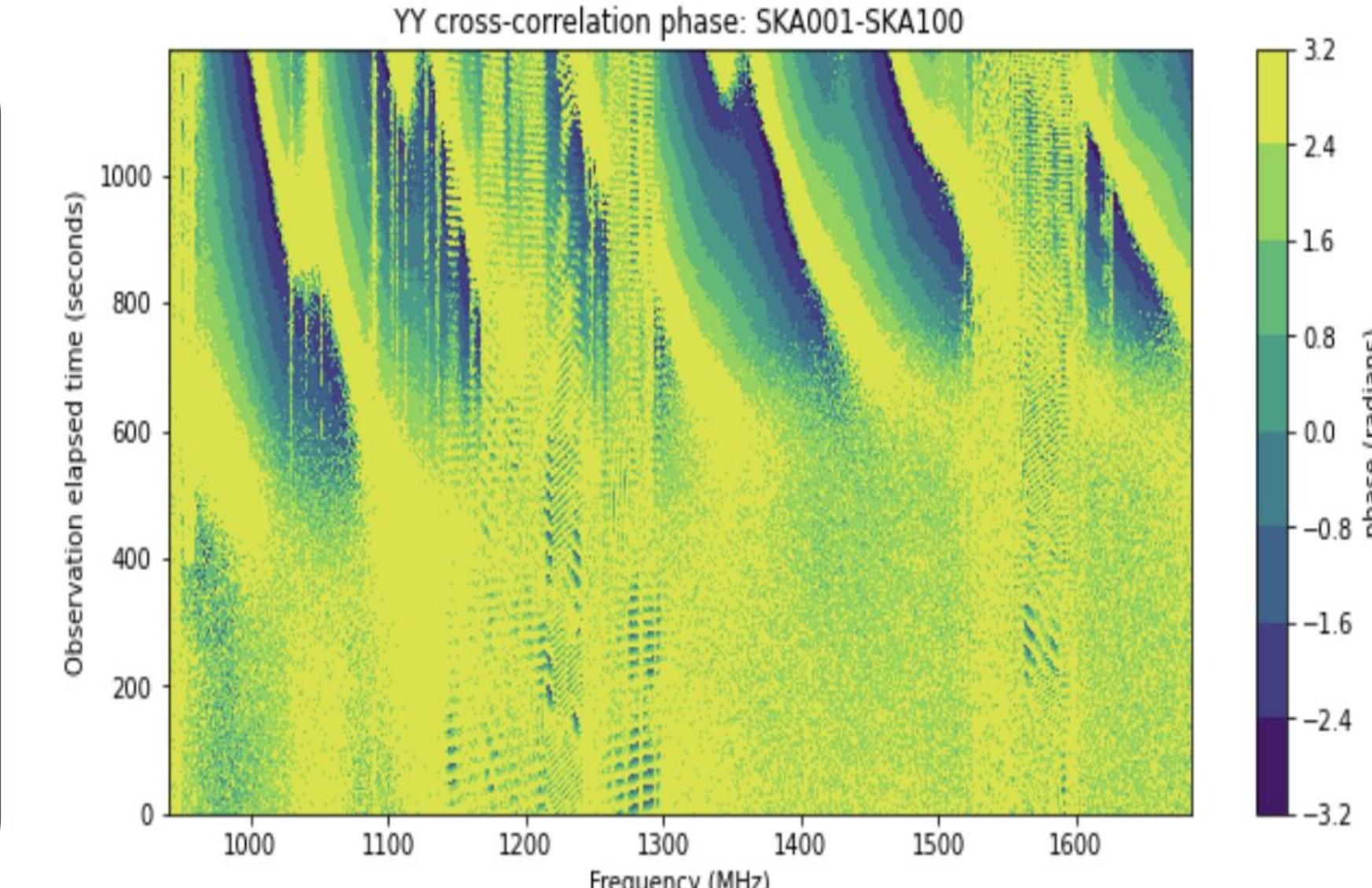
- Mainly used for SKA Construction - Software Development with $\sim 4K$ CPU, ~ 20 TB RAM, 14 GPU
 - CI/CD, Development, Integration, Core Services, (k8s, Elastic, Ceph, Prometheus/Grafana), Central Logging, Prototyping for SKA Array Releases
- Supporting 40+ Teams, 700+ people since 2020

Collaborating All Over the World!

SKA
LOW
Fringes
Sep
2024



SKA
MID
Fringes
Dec
2025



SKAO SRCNet & IRIS

SRCNet 0.1
2025



Milestone passed!

9 nodes now

Test campaigns already
taking place

Data movement between
sites centrally managed

Data ingestion at SDP
location in Perth

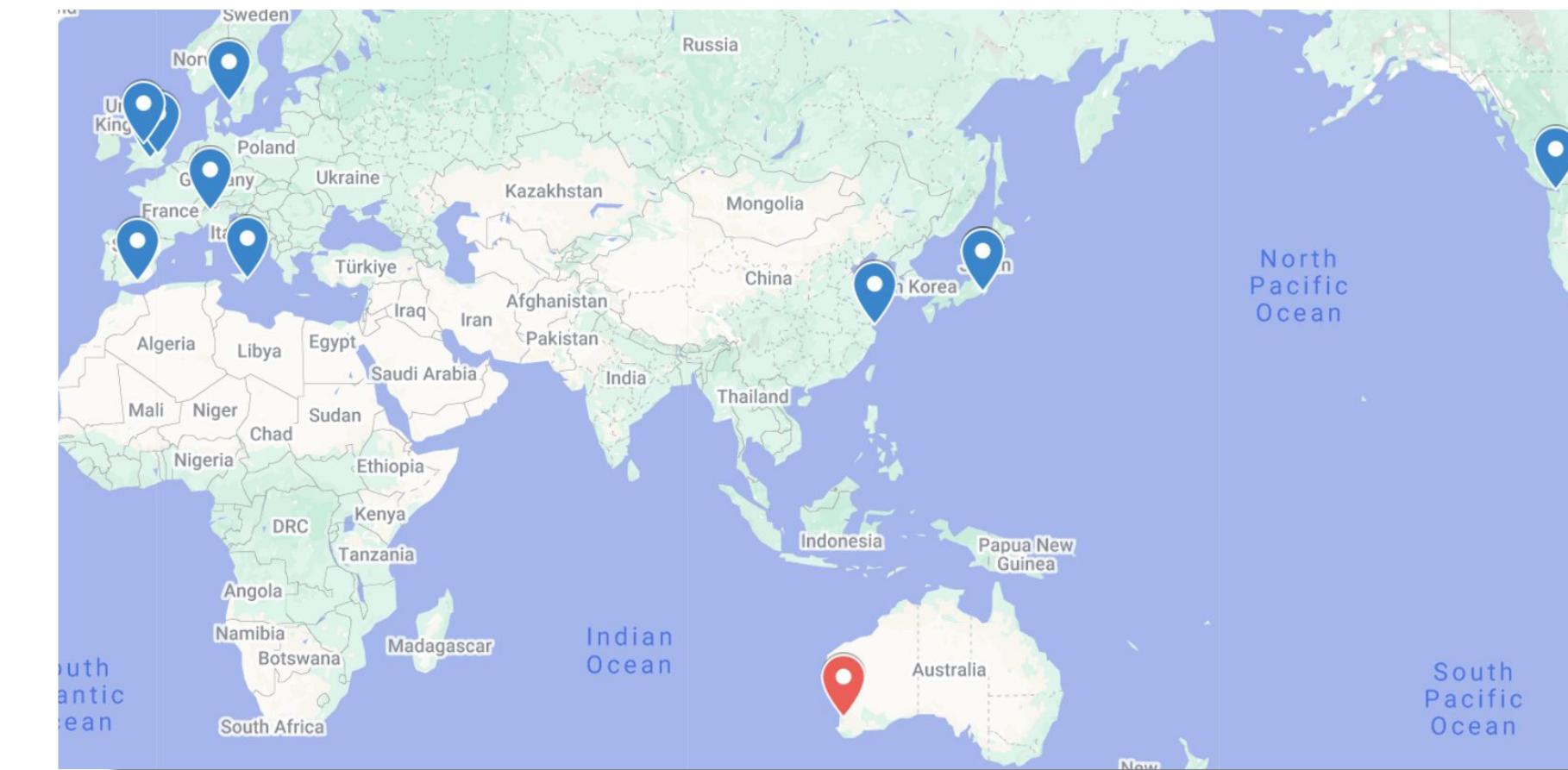
Internal version,
testing architecture

→ SRCNet Development is work in progress - ramping up to completion in 2030 but with first users 2027. We have **9 sites** running as "0.1" SRCNet nodes with centrally managed services

→ **Centrally managed data archive of 3 PBytes total now**

→ Ingestion of data from an SDP site (Pawsey) on SKAO resources

Millions of global data transfers
made in test campaigns already



Map Key: 0.1 nodes (Spain, Switzerland, SKAO, Sweden, UK, China, Japan, Canada, Italy) SKAO ingestion site (Pawsey)

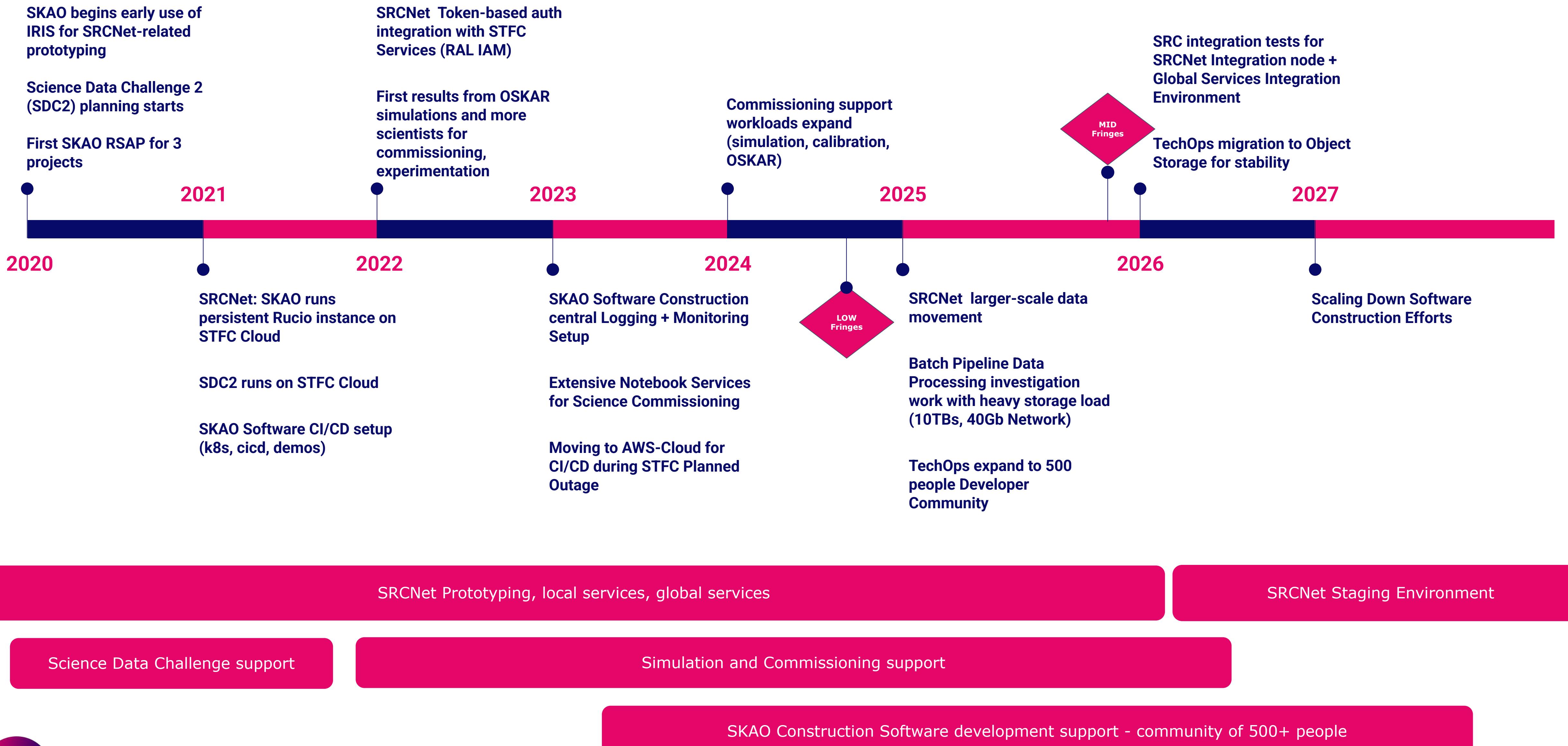
Since March 2025, SKAO has run a complete SRCNet node on STFC Cloud all services integrated. Building expertise in how to deploy our SRCNet services and supporting other SRC teams to do the same (K8s gitops focus, ideally suited to how STFC cloud enables access)

Since 2022 we have used IRIS (STFC Cloud) resources to run some global SRCNet services (e.g. APIs, Rucio service, databases). In future anticipate using STFC Cloud to support staging environment but to use more stable infrastructure and resourcing model for deployment version of long-lived services

* SRC = SKA Regional Centre, SRCNet = global network of federated, accredited SRCs, akin to WLCG



Detailed SKAO IRIS Timeline & Forecast



Thanks

*We recognise and acknowledge the
Indigenous peoples and cultures that have
traditionally lived on the lands on which
our facilities are located.*

SKAO

• www.skao.int •