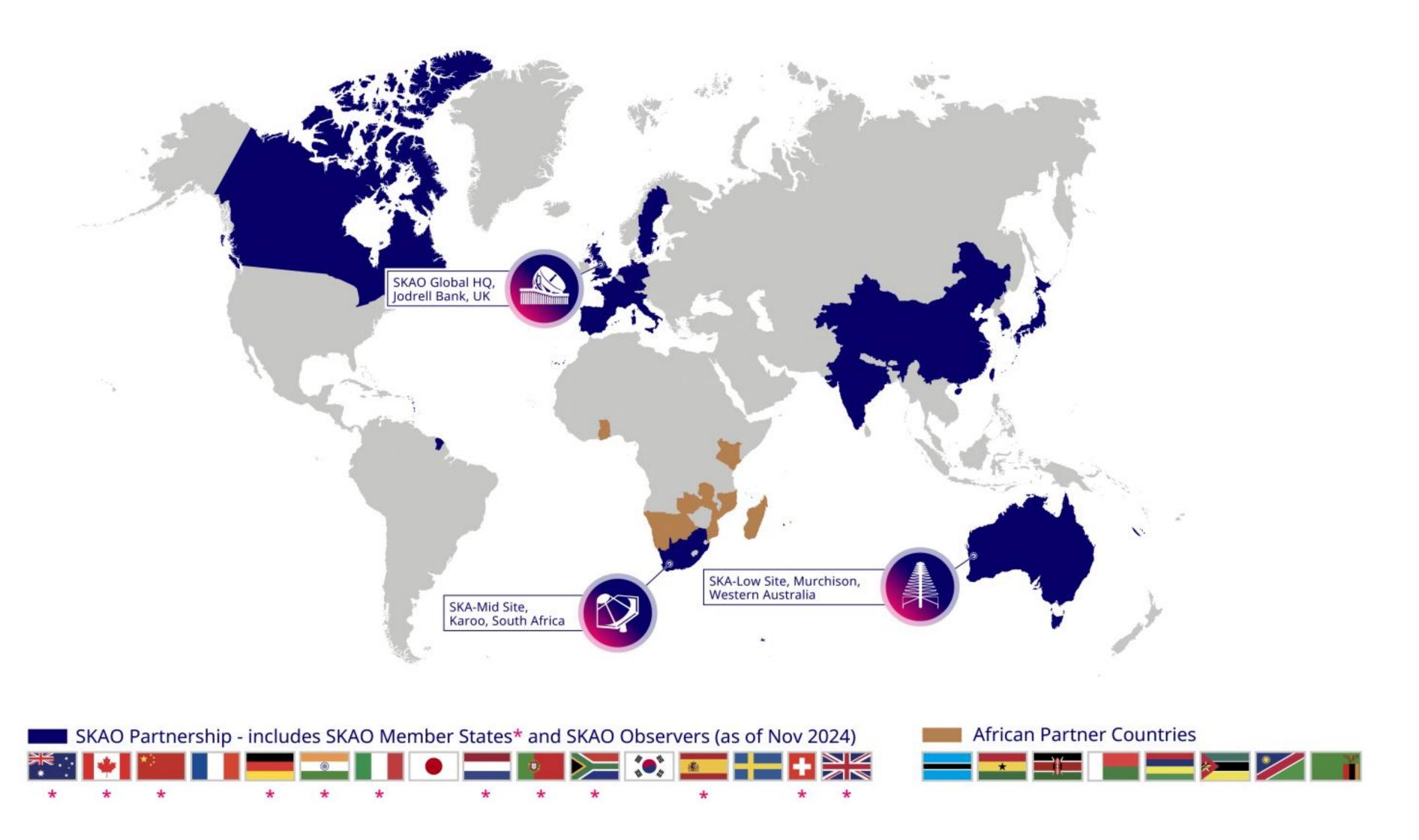




## The SKAO





## Definitions



- Three sites:
  - UK: HQ Jodrell Bank
  - ZA: MID telescope Karoo
    - Cape Town
  - AU: LOW telescope Murchinson
    - Perth
- Dev stuff
  - Tango controls framework cpp, python
  - SAFE Agile framework

#### DB Environment:

- Vanilla K8s
- PostgreSQL 16.x

100%OpenSource



## PostgreSQL@SKAO

- Monitoring via the tango HDB++ archiver on timescale:
  - Helm chart, not maintained any more by Timescale
  - Patroni based
  - Called Engineering Data Archive (EDA)
- Relational databases:
  - EMS: Engineering/telescope performance
  - OSO -> ODA Observation metadata
  - DLM: Observatory Lifecycle management
  - Data reduction



## Stackgres Vs CNPG

- Good documentation
- +100 extensions: Timescale
- We know patroni works on k8s and we like it

#### Errare humanum est:

We take our backup and import it on CNPG.





# Mauricio.Zambrano@skao.int

SKAO Database Engineer



### Many thanks!

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



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