



ATNF of the Future

Update for ATUC

George Heald | 23 October 2023

Looking ahead to the SKA era

Short term (2023-25)

ATNF upgrades

- CryoPAF
- BIGCAT
- CRACO

Computing / software

- Software for CryoPAF, BIGCAT, ASKAP

Observing

- ASKAP survey ops
- Longterm Projects

SKA

- Construction
- Early data

Mid future (up to ~2030)

ATNF development

- UWH (Parkes/Murriyang)
- LAMBDA / VLBI
- ASKAP upgrade

SKA

- Array releases

10-yr timescale (~2030+)

Observing

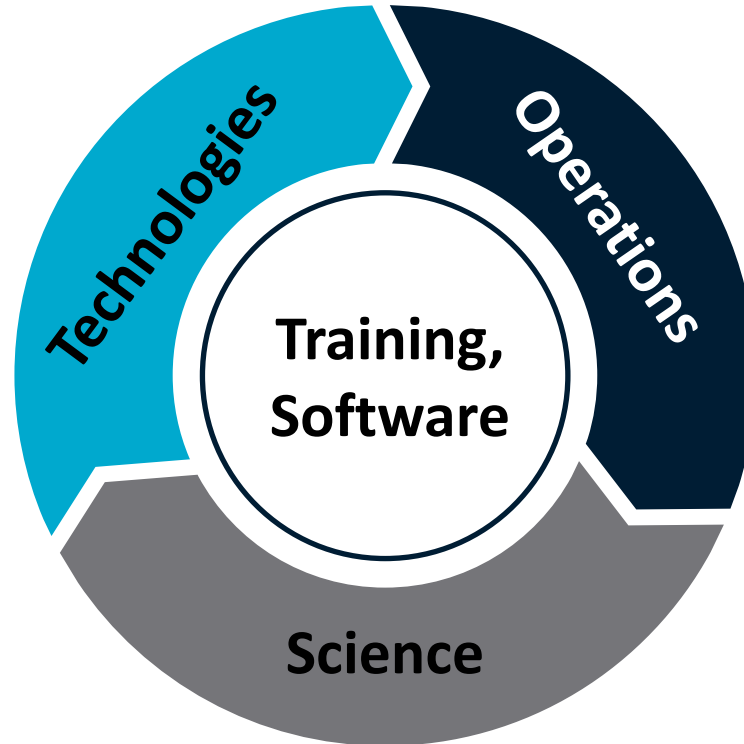
- New ASKAP surveys
- Start of SKA observing
- SKA KSPs
- SKA VLBI

Additional considerations

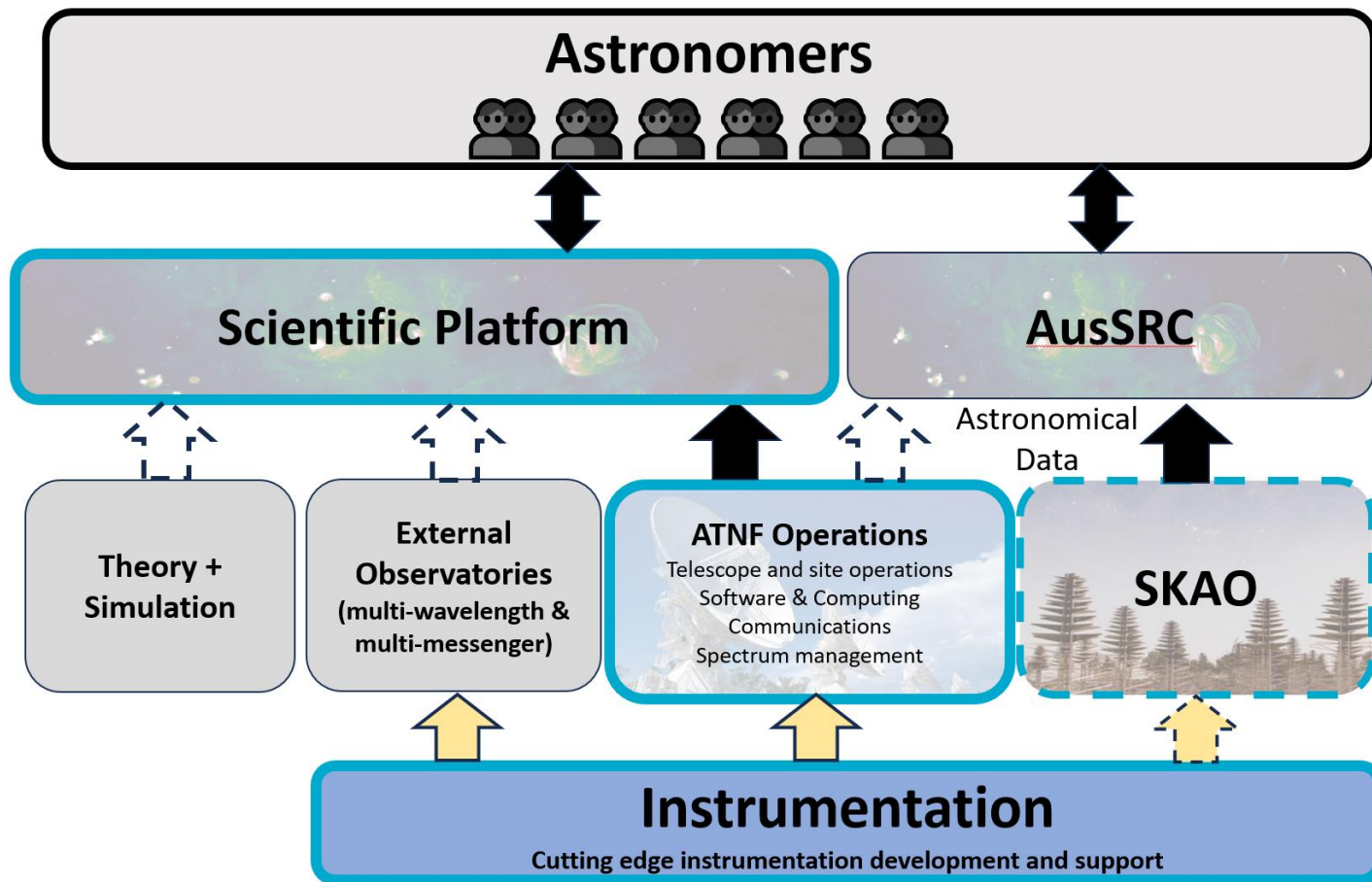
- Next Australian astronomy decadal plan (2026-2035)
- New CoE(s) e.g. OzGrav 2023-2030
- ESO strategic partnership (2017-2027) and membership
- AusSRC (2022-2031)
- Other telescopes: LSST, JWST, ngVLA, DSA-2000, LIGO, ...

Core components of ATNF

- Crucial element of inter-relatedness and mutual strength



ATNF “stack” model



Next steps

- Framing strategic options for discussion with ATSC
 - ASKAP upgrade
 - Operating models for Parkes, ATCA, LBA
 - LAMBDA
 - ESO membership
- Engagement in Australian astronomy decadal plan process
- Consultation
 - Our staff
 - ATUC
- Bringing the strategy to life

Thank you

Space & Astronomy

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