



# ATNF of the Future

Update for ATUC

George Heald | 9 November 2022

# Looking ahead to the SKA era

## Short term (2022-24)

### ATNF upgrades

- CryoPAF
- BIGCAT
- CRACO

### Computing / software

- Pawsey upgrade
- Software for CryoPAF and BIGCAT

### Observing

- Start ASKAP survey ops
- New Legacy Projects?

### SKA

- Construction starts

## Mid future (up to ~2030)

### ATNF development

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

### SKA

- Array releases

## 10-yr timescale (~2030+)

### Observing

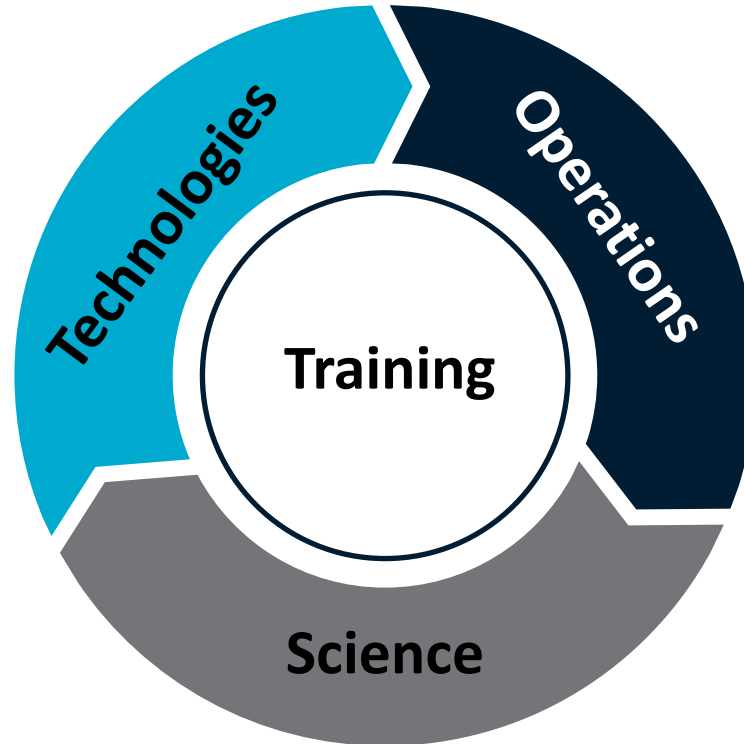
- New ASKAP surveys
- Start of SKA observing
- SKA KSPs
- SKA VLBI

## Additional considerations

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

# Core components of ATNF

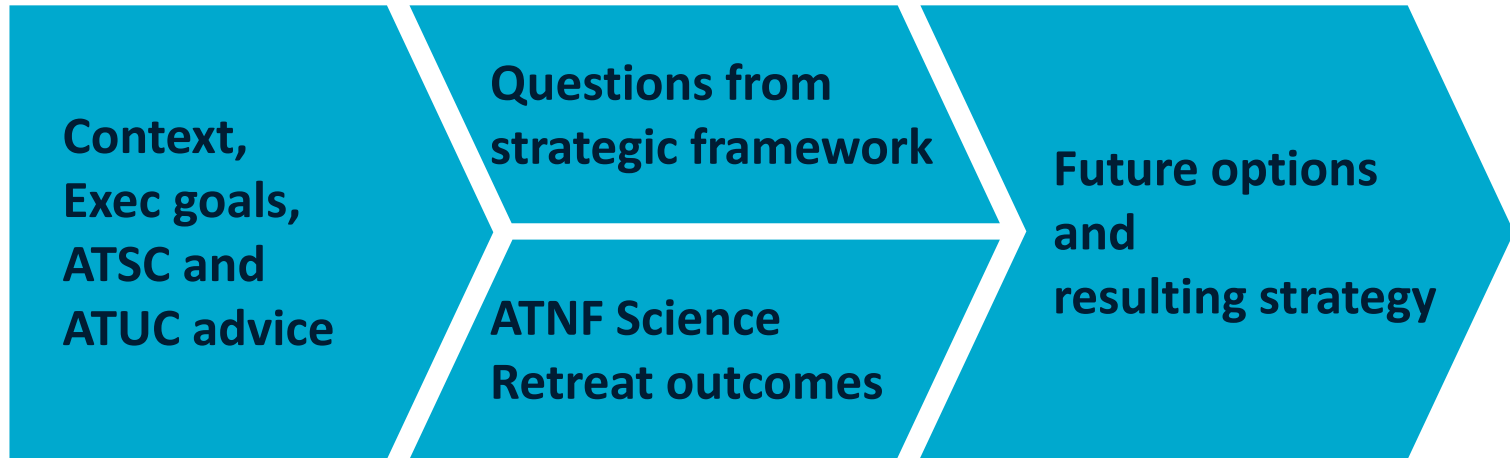
- Crucial element of inter-relatedness and mutual strength



# Steps to date

- Discussion within a subset of the S&A Executive Team
  - Framing the problem and initial brainstorming
- Presentation of project and plans to ATUC and ATSC
  - ATUC: valuable advice around training, students, joint appts, CoEs
  - ATSC: recommendations to guide objective and next steps
- Substantial discussion at ATNF Science Retreat
  - Draft summary document developed and being refined
- S&A Exec discussion to place project into a strategic framework

# Moving forward



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- S&A Exec discussion to place project into a strategic framework
- **Now convening advisory team (further ATUC advice welcome)**
- **Aiming to conclude for April/May 2023 ATUC/ATSC meetings**

# Thank you

## **Space & Astronomy**

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