



# ATNF Operations

John Reynolds

[www.csiro.au](http://www.csiro.au)

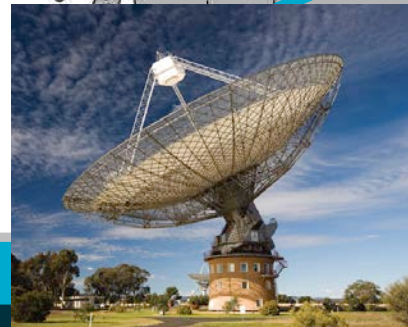


AT USER COMMITTEE – 1<sup>ST</sup> NOVEMBER 2017

# The ATNF

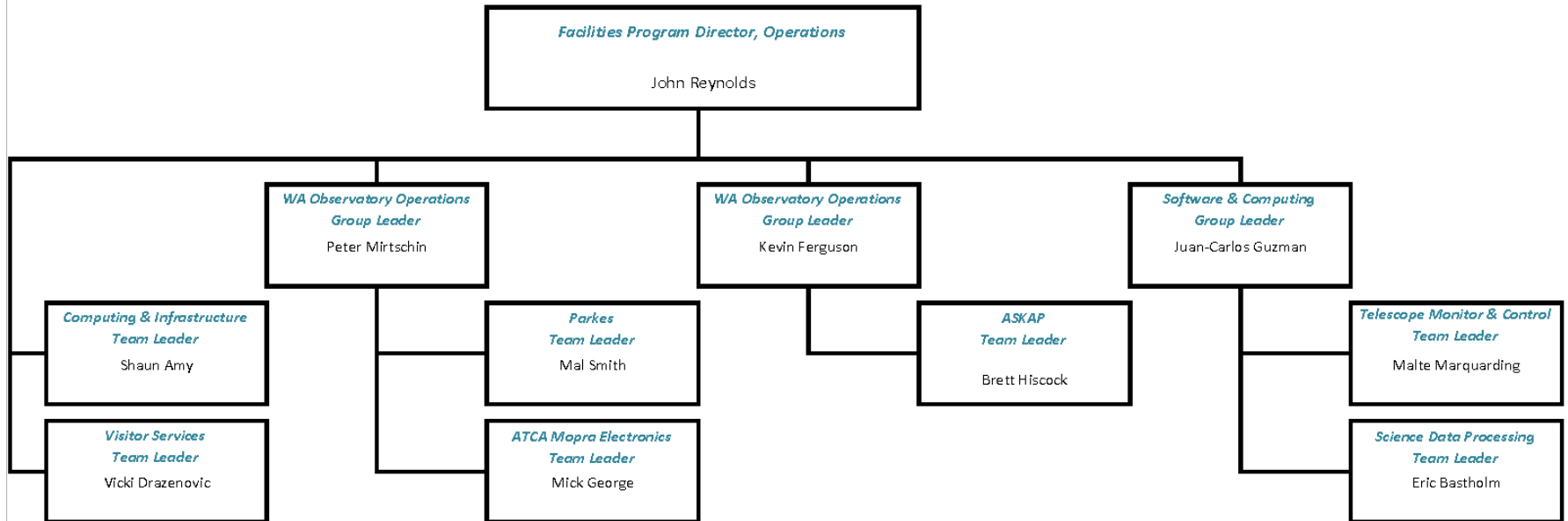


**Pawsey HPC Centre**



# ATNF Operations

## ATNF Operations Organisational Structure



Welcoming;

Kyasha Palmer – Indigenous Trainee in Admin at Parkes Visitor's Centre

Drew Devereux – HPC s/w developer, Kensington

# Status & Impact



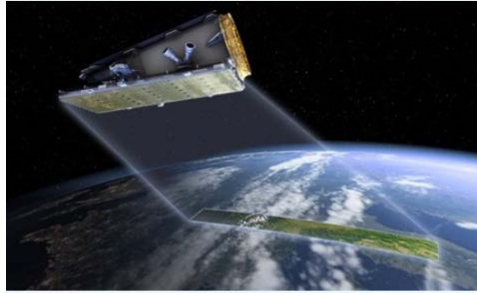
# Media highlights



17 Oct 2017



**Gravitational waves world-first discovery Down Under**



26 Sep 2017



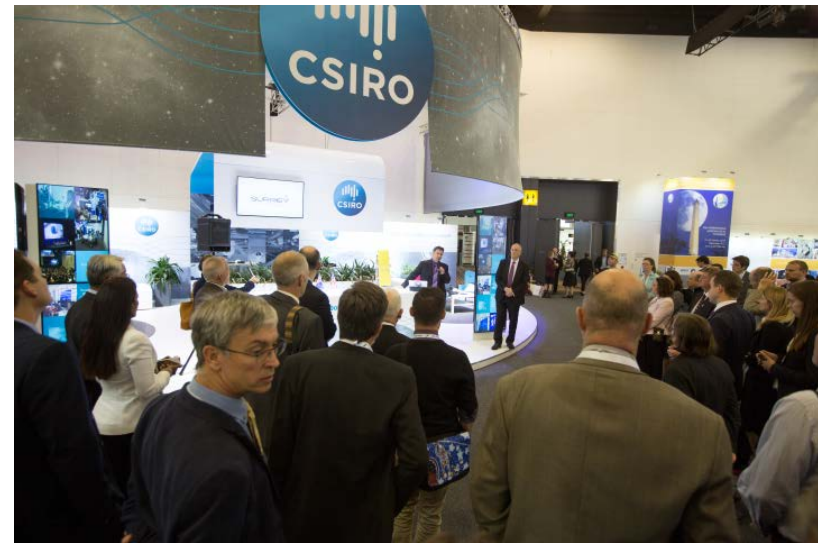
**CSIRO invests in one of the world's most sophisticated satellites**



19 Sep 2017



**Aussie astro tech to go on show in Adelaide**



I'm an engineer with an astronomy problem. I completed an engineering degree in Australia in 2002 and spent five years designing satellite equipment in the UK. On returning to Australia with a pregnant wife and no job, I started a PhD in astronomy because it was the least responsible thing I could think of at the time.

Keith Bannister  
**The Conversation**

# Ernie Dingo visits our outback astronomy observatory – in his beloved backyard

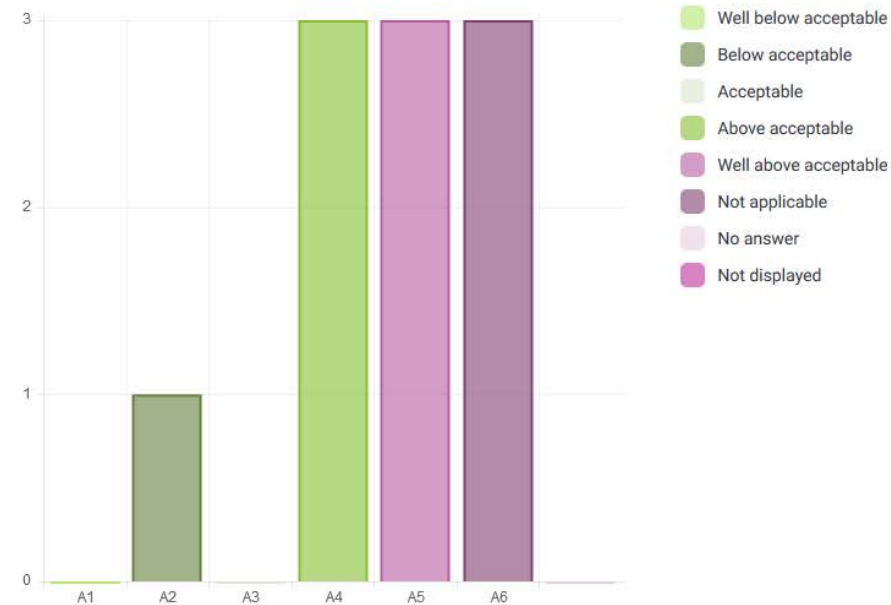
By Annabelle Young | 22 August 2017

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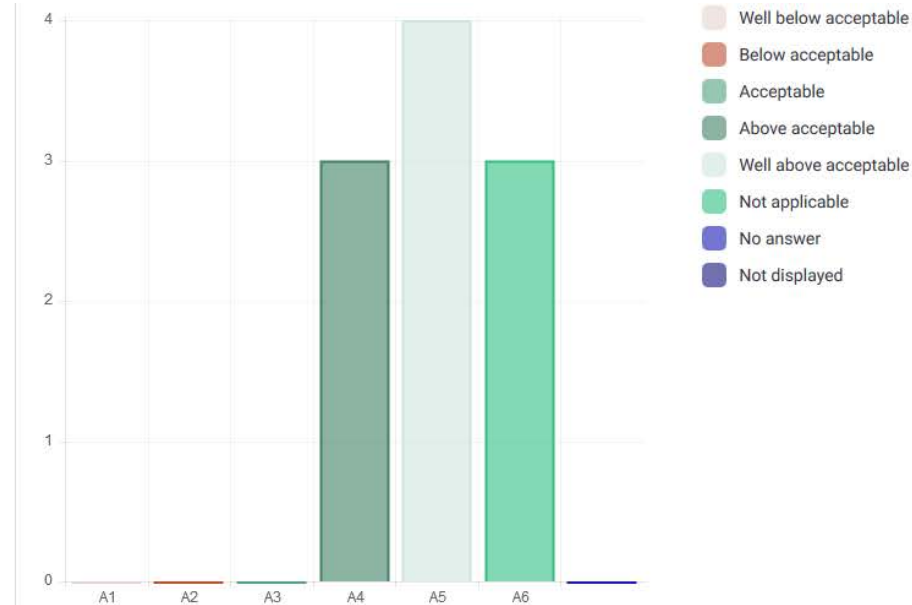


# User questionnaire – some progress

Limited number of responses submitted to date (10)  
\$25 voucher offer at Parkes shop to apply



**Pre-observation support & training**



**Support during observation**



# How to leave feedback

The screenshot shows the Australia Telescope National Facility website. The main navigation bar includes 'ATNF Home', 'About ATNF', 'Facilities', 'Science & Technology', 'Online Resources', and 'Outreach'. A pink arrow points to the 'Facilities' dropdown menu, which is open. In this menu, the 'User feedback' link is circled in pink. Other links in the menu include 'ATNF facilities', 'Visiting the ATNF sites', 'Visitors guides', 'Information for observers', 'Schedules & rosters', and 'Leave feedback'. The 'Leave feedback' link is also circled in pink. The website header features the CSIRO logo and an 'Accessibility menu' link. The main content area includes a large image of a radio telescope dish and a 'WELCOME TO THE AUSTRALIA' section with introductory text. A 'NEWS' section is visible at the bottom left, with a link to 'Gravitational waves world-first discovery Down Under (Media Release)'. The right side of the page features a vertical list of images and text, including 'ASKAP' and 'Square Kilometre Array'.

# ATCA, MRO visitor access

## ATCA

- 4 single + 1 double Lodge rooms available
- Also flat – 1 bedroom (double+single), and sofa bed
- No observing support – experienced observers required.

## MRO open day 2018

- Open Day Committee up and running
- Date in October 2018 under consideration
- Buses from Geraldton preferred at this stage

# ATNF Visitors Centres



~100,000 visitors/y  
~ \$700k/y revenue

# Pawsey report

- Disk space problem under control in medium term (/astro, /scratch2 ...)
- Upgrade path for major assets (e.g. Galaxy) unclear
- Pawsey staff now part of CSIRO
- Detailed ASKAP Requirements for RTC (Galaxy)  
In planning, to be finalised by February 2018



# Funding

# ATNF Budget Plan - Revenue

	FY15/16	FY16/17	FY17/18	FY18/19
Appropriation	11.9M	11.9M	11.9M	11.9M
<b>NCRIS (ASKAP)</b>	<b>4.8M</b>	<b>3.1M</b>	<b>1.0M</b>	<b>1.0M</b>
Breakthrough Listen	-	0.9M	1.8M	1.6M
Sale of Telescope Time	-	-	0.3M	0.6M
MRO cost recovery	-	-	0.9M	0.9M
Visitor Centres	0.7M	0.7M	0.7M	0.8M
Fibre rental	0.1M	0.1M	0.1M	0.1M
Misc + Mopra	0.2M	0.3M	0.1M	0.1M
<b>Total External</b>	<b>5.8M</b>	<b>5.1M</b>	<b>4.9M</b>	<b>5.0M</b>

# ATNF Operations Finances 2015-2019

	FY15/16	FY16/17	FY17/18	FY18/19
Revenue	17.7M	17.0M	16.8M	16.9M
ATCA	2.9M	2.9M	3.0M	3.0M
Parkes	2.1M	2.3M	2.3M	2.4M
ASKAP	7.9M	8.1M	8.1M	8.3M
Mopra	0.15M	0.16M	-	-
Visitor Centres	0.78M	0.79M	0.81M	0.82M
Common	1.6M	1.8M	1.8M	1.9M
SKA	0.34M	0.35M	0.35M	0.36M
Support Services	0.34M	0.35M	0.36M	0.36M
Result	+1.5M	+0.2M	+0.05	-0.16

# Sale of Telescope Time

- Call for EoI in Nov 2016, following ATSC endorsement pricing principles, base charge rates, quoting framework

Parkes – pulsar timing & VLBI (China), FRB searches/follow-up

ATCA – large legacy-style survey, satellite tracking

Mopra – already in this model, to some degree

DoD – early interest in space situational awareness – follow-up

Sale of Telescope Time proceeds on top of existing commitments;

- 25% of Parkes time committed to BL
- 35~40% of ATCA to Legacy Projects
- 70% of ASKAP time committed to surveys



*We acknowledge the Wajarri Yamatji people as the traditional owners of the Murchison Radio-astronomy Observatory site*

**CSIRO Astronomy and Space Science**

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