

# Beyond hyperscale, to hyper-connected *an emerging Asian HPC zone*

**Mark Stickells**  
**Executive Director**

*The Pawsey Supercomputing Centre is an unincorporated joint venture between*



*and proudly funded by*

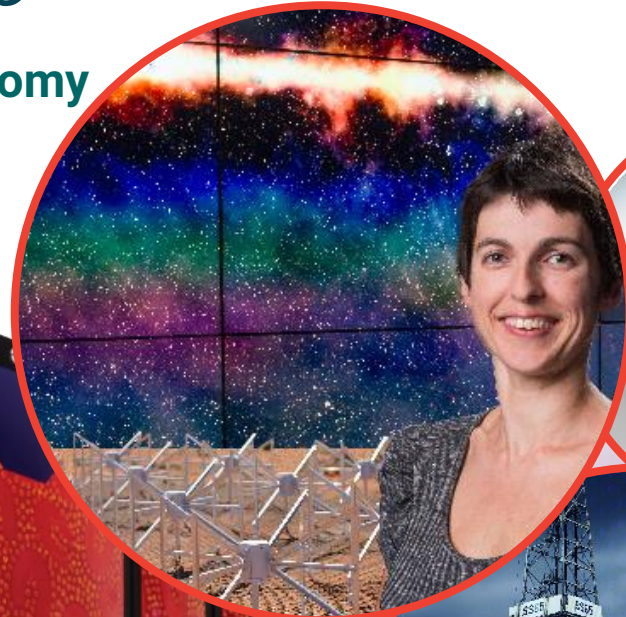


*'connecting even more diverse research communities and industries, and consider the big questions that we can tackle with HPC'*

agriculture



astronomy



health



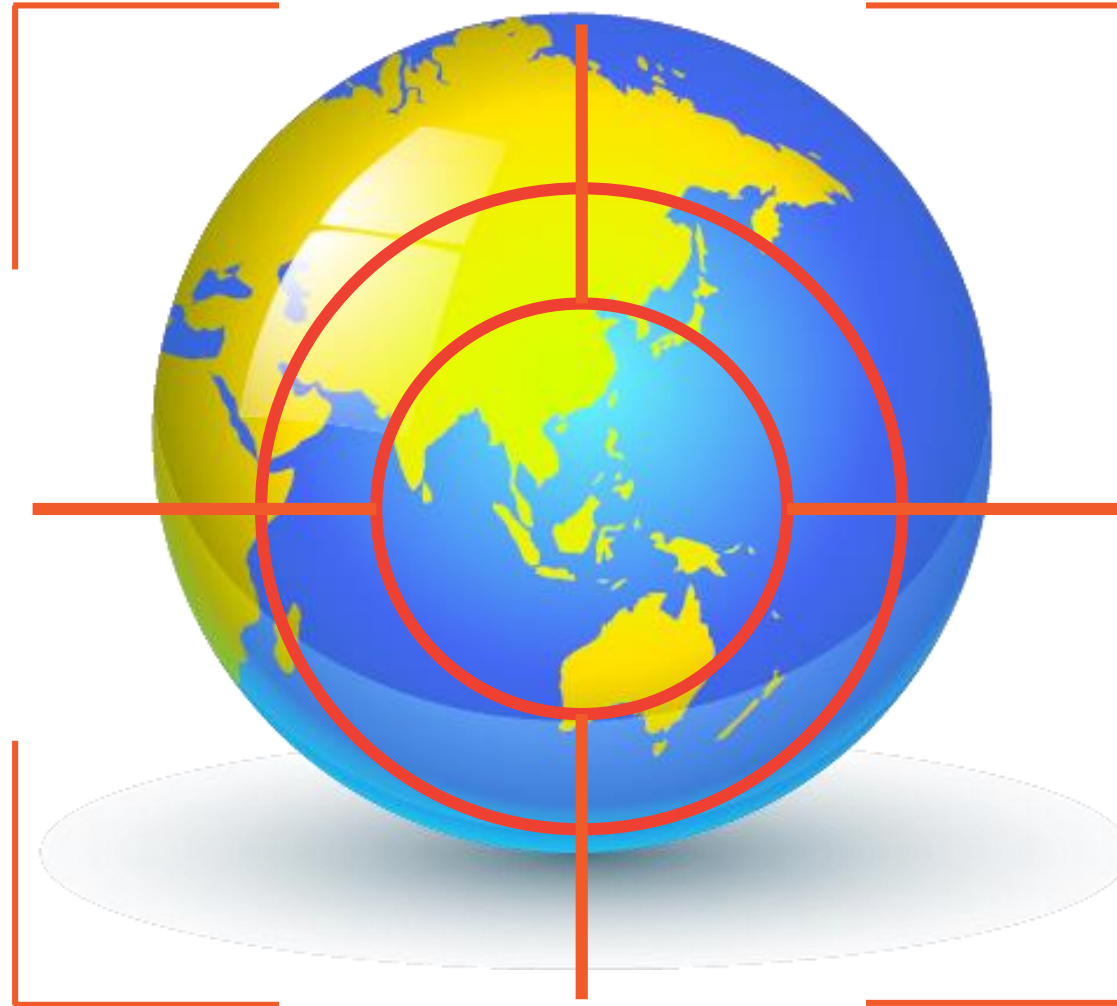
resources



energy



# 'the zone'



# Pawsey Supercomputing Centre

**Tier-1 facility enabling researchers and its partners to tackle large-scale scientific problems**




  
**1600**  
researchers

  
**190**  
projects

  
**45**  
staff

# ACCELERATING SCIENTIFIC DISCOVERIES

through

  
supercomputing

  
data

  
visualisation

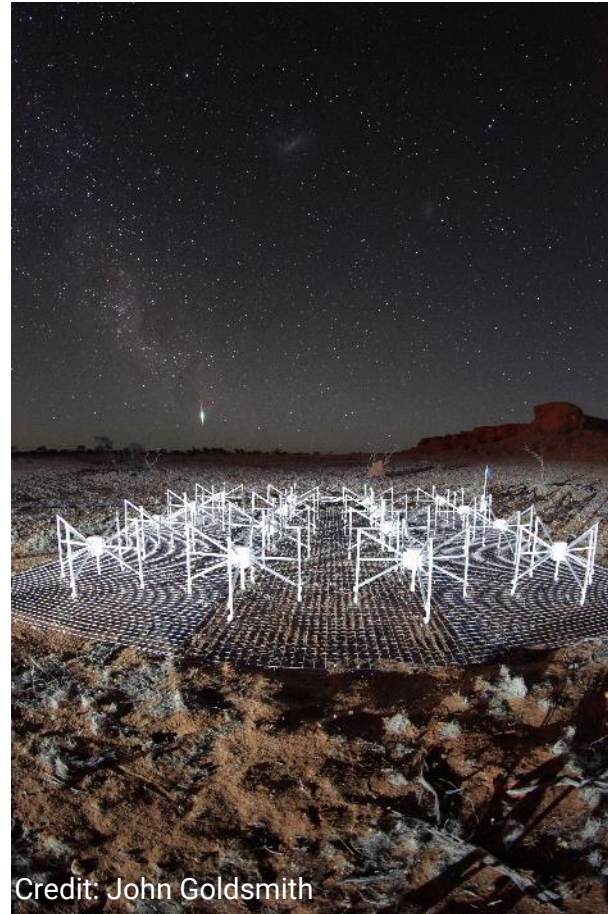
  
training and consulting

# Radioastronomy



Credit: Alex Cherney

**ASKAP Antennas of CSIRO's  
Australian SKA Pathfinder telescope**



Credit: John Goldsmith

**Night Sky at MWA Site Western Australia**



Source: CSIRO

**Founders of Australian radio astronomy: L-R  
John Bolton, Gordon Stanley and Joe Pawsey**

# Food Security and Supercomputing



# Protecting lives of Premature Babies





# More efficient resource exploration



# Understanding the ocean to improve offshore designs



# Air-breathing access to space





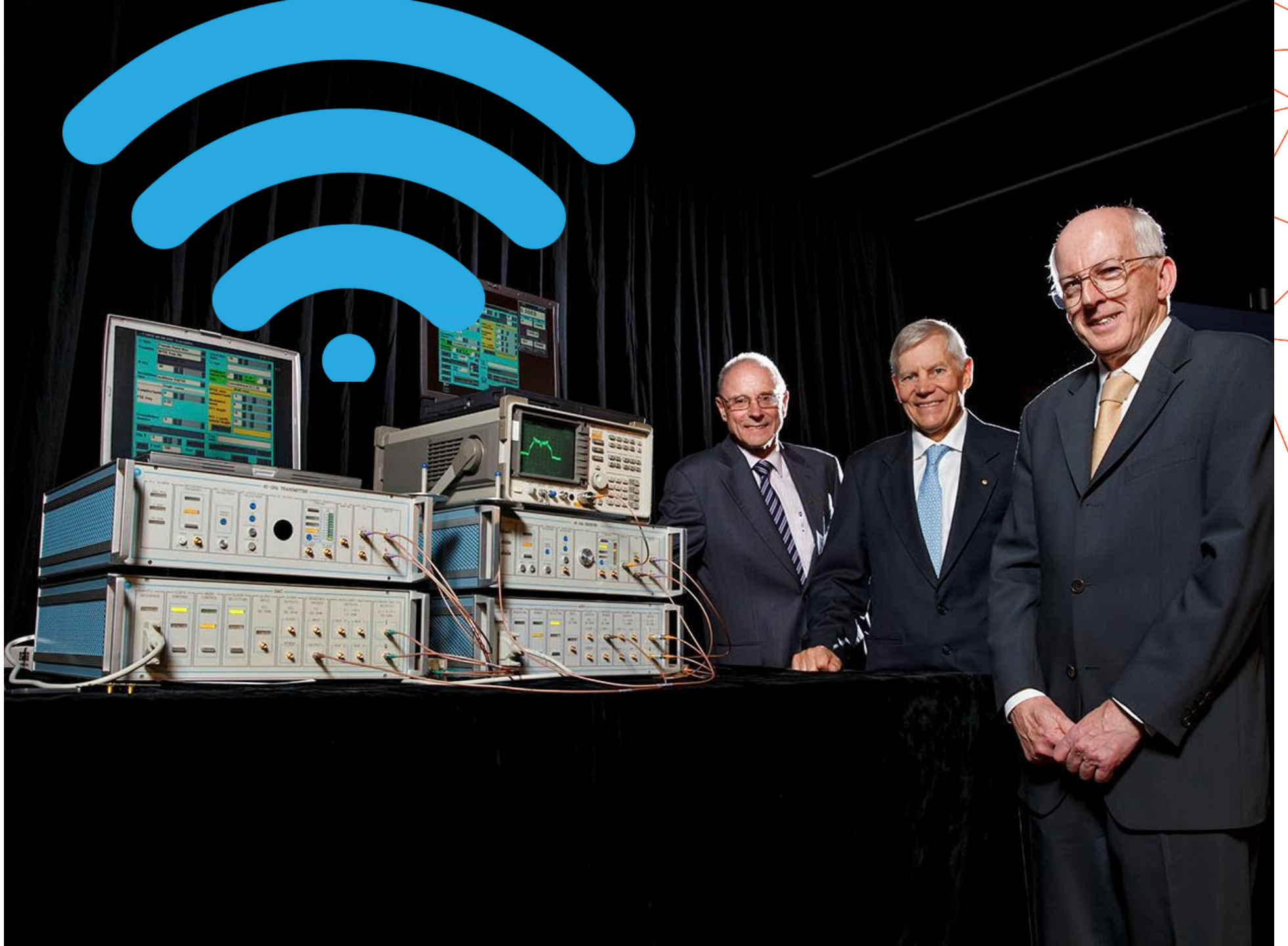
National  
Supercomputing  
Centre



**aarnet**

Australia's Academic  
and Research Network

Three of the five scientists who contributed to CSIRO's wireless invention (from left) John O'Sullivan, Terry Percival and Graham Daniels, at the media event to announce the prototype's inclusion as the 101st object in the exhibition *A History of the World in 100 Objects*. National Museum of Australia



**“we need people that can build linkages, support collaboration, and bridge historical boundaries.”**

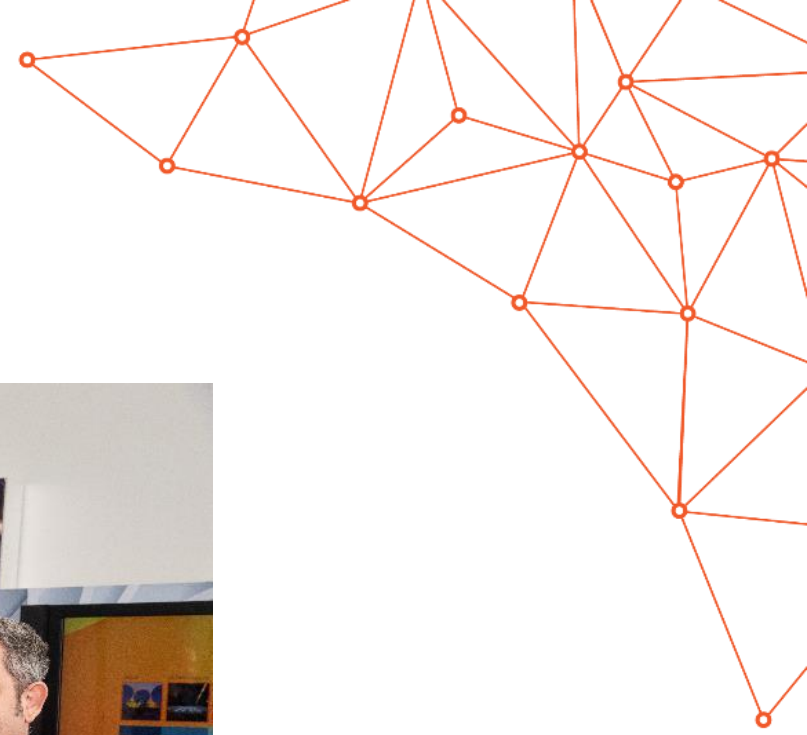


**“growing and diversifying the talent pool  
supporting the deployment of HPC in our region”**



**2018 Summer Interns**

# Diversity







# Thank you

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[www.pawsey.org.au](http://www.pawsey.org.au)

