

Super Science

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iVEC Industry and Government

Background

- National Collaborative Research Infrastructure Strategy. \$542M of Federal funding over 2005-2011.
- Provides major research facilities and supporting infrastructure.
- Compliments project-based grants from e.g. Australian Research Council.

NCRIS Infrastructure

- NCRIS provides research Infrastructure - Data acquisition, storage, sharing and analysis.
 - Terrestrial and marine sensor networks
 - Microscopes, Australian synchrotron.
 - Astronomy – ASKAP, MWA.
 - Data sharing – ARCS data fabric.
 - Data portals – AuScope geoscience portal.

Super Science

Global Financial Crisis.
Spend to create jobs.

2008 review of NCRIS
capabilities and further
requirements. *

\$1.1 billion boost in
Federal Government
Funding, announced
in May 2009 budget.

* www.innovation.gov.au/Section/science/Documents/StrategicRoadmapAug2008.pdf

Super Science Priority Areas

- \$504.0M Future Industries
- \$387.7M Marine and Climate
- \$160.5M Space and Astronomy
- \$27.8M Fellowships
- \$11.3M Questacon



ICT

All Priority Areas have a large ICT component.
The ICT breakdown of spending is:

- \$97M for data storage
- \$80M for supercomputer in Perth (includes building) aka Pawsey Centre
- \$50M for supercomputer in Canberra
- \$48M for data discovery
- \$37M for networking



iVEC



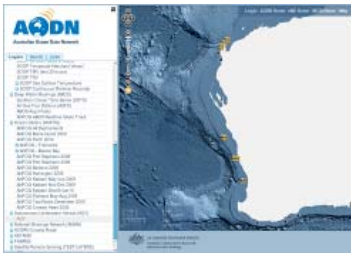
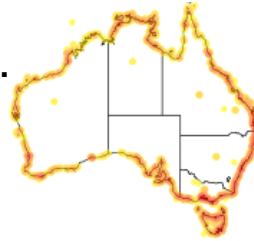
Joint venture between CSIRO and the four public WA universities to provide advanced computing infrastructure to their researchers.

iVEC will run the Pawsey Centre

- \$46M operating cost over 5 years from partners
- \$19.5M staff costs (requested from state government)

Building on the Infrastructure

Atlas of Living Australia.
www.ala.org.au

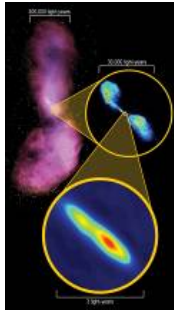


Australian Ocean Data Network.
waudn.ivec.org/webportal

Auscope geodata portal.
portal.auscope.org



Research Projects

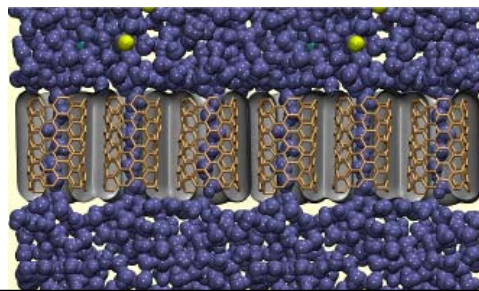


Radio Astronomy (CSIRO, ICRAR)

Crop yield data mining (ECU)



Desalination
filter optimisation
(UWA)



Do Super Science!

Collaboration with Academics (CSIRO, the WA universities, interstate universities).

Geraldton Universities Centre, iVEC.

Use consultants.

Access data yourself.

Contribute data via government agencies.