



Australian Government
Department of Industry,
Innovation and Science

Civil Space Activities **Australian Government Country Report**

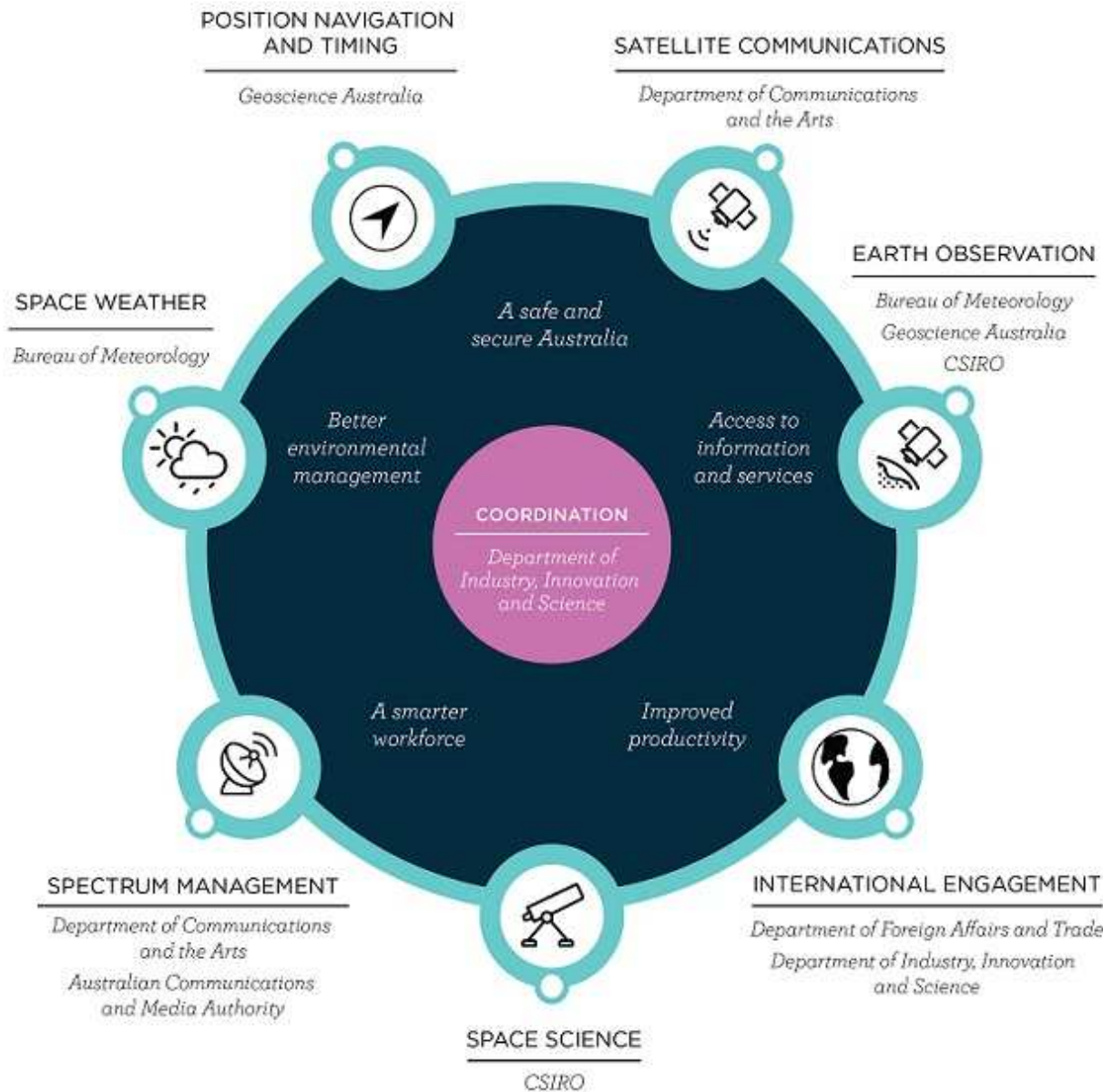
APRSAF-24, Bengaluru

Mark Todd

APRSAF-24

November 2017

1.0 Australian Government framework for civil space activities



2.0 Major Activities

CSIRO Astronomy and Space Science

- Home to two of Australia's national space facilities
 - Australia Telescope National Facility (ATNF)



- Canberra Deep Space Communication Complex (CDSCC)



Image credits: CSIRO

| CSIRO Astronomy and Space Science 2017

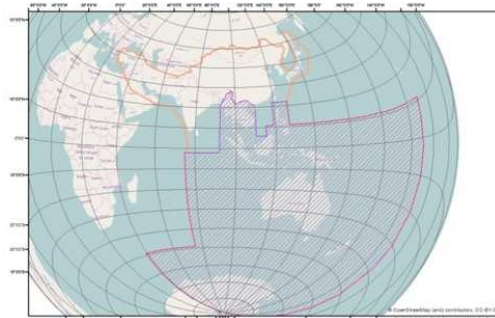
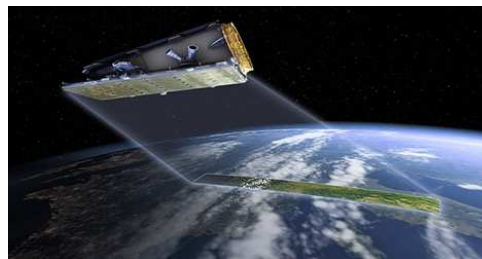


2.1 Major Activities

CSIRO Earth Observation

Upstream Data Supply

- New space sensors and platforms
 - NovaSAR partnership
 - DMTC High Altitude Sensor Systems Program
- Current data supply provisions for public and industry needs
 - Australia's regional Copernicus Data Hub
- Key international partnerships and linkages
 - CEOS Outgoing Chair 2017



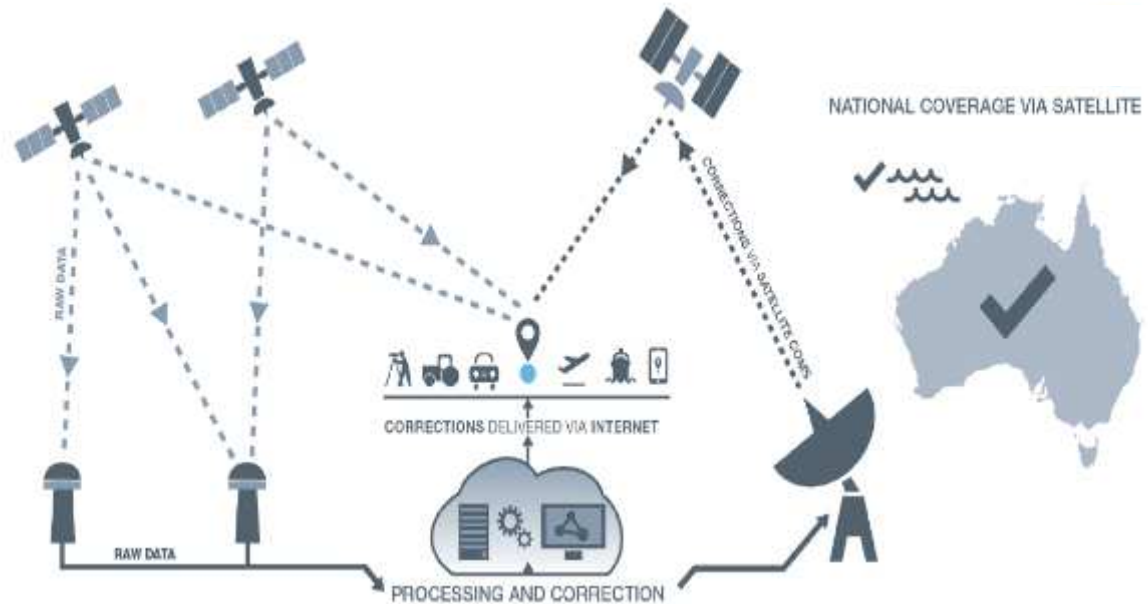
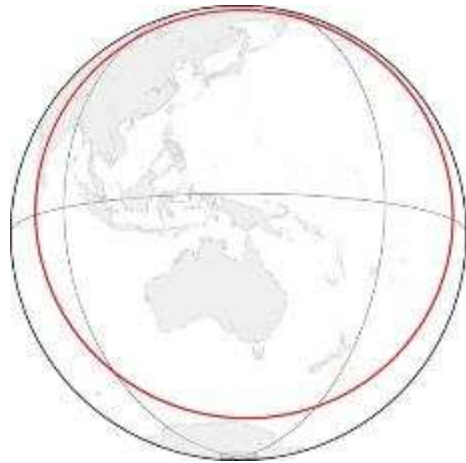
Downstream Data & Services

- New custom applications for EO data
- Big data processing solutions and industry opportunities
 - Digital Earth Australia
 - Open Data Cube

Image credits: CSIRO

2.2 Major Activities

Satellite-Based Augmentation System Test-Bed



2.3 Major Activities

Digital Earth Australia (DEA)

- Digital Earth Australia allocated \$15.3 million funding over the next two years.
- DEA will deliver robust data infrastructure, standardised services and information products that will:
 - 1) *Increase the efficiency and effectiveness of Australian government programs and policies that need accurate and timely spatial information on the health and productivity of Australia's landscape.*
 - 2) *Enable Australian business to quickly capitalise on open data, and create new capabilities to increase efficiency, productivity and employment opportunities.*



3.0 National Policies

Reform of the Space Activities Act 1998

- Reform of Australia's Legislative arrangements for civil space activities is underway.
- The aim is to ensure that Australia's space regulation is appropriate to technology advancements and does not inhibit innovation in Australia's space capabilities.



Image:
Australian
Company
Cuberider
receives
Overseas
Launch
Certificate

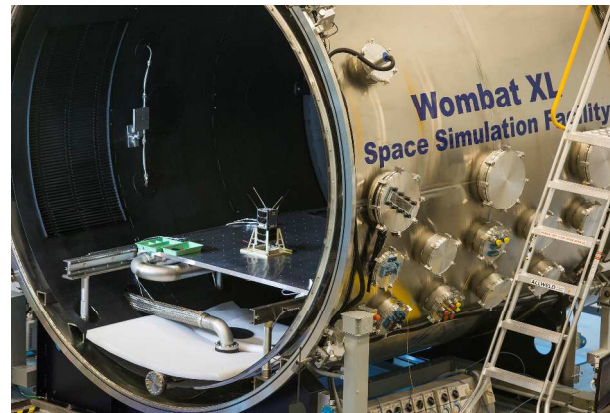


Image:
An Australian
Cubesatellite
being tested
at Australian
National
University
facilities



Image:
Artist
impression of
Australia's
nbntm
communication
satellites



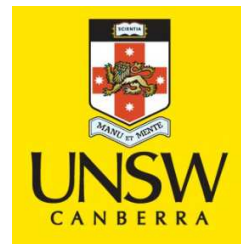
Image:
The return of
Hayabusa
capsule to
Australia in
2010

3.1 National Policies

Review of Australia's space Industry Capability

- The Australian space industry sector represents approximately 0.8% of the global space economy compared to Australia's 1.8% of the overall world economy.
- The Australian Government believes that Australia can participate more fully in the global space sector.
- The Government is undertaking a review of Australia's space industry capability.
- An Expert Reference Group has received over 180 submissions and consulted 400+ stakeholders and will provide a strategy to Government in March 2018.

- **Expert Reference Group:**



3.2 National Policies

Announcement of Australian Space Agency

- Announcement of an Australian Space Agency on 25 September 2017 at IAC.
- The Industry Capability Expert Reference Group will develop advice on a draft charter to be provided to Government in March 2018.
- Key considerations:
 - What are successful international models?
 - Especially in regards to the development of space industry capabilities?



Thank you

For more information visit: space.gov.au