SSA IN AUSTRALIA

RECENT DEVELOPMENTS

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Australia’s Approach to Space
Enduring Drivers

• Geography (equidistant from Europe and the Americas, south of Asia)

• Alliance relationships

• Good International Citizen

• Money
Seven Principles

Focus on space applications of national significance

Assure access to space capability

Strengthen and increase international cooperation

Contribute to a stable space environment

Improve domestic coordination

Support innovation, science and skills development

National security and economic well-being.
Space Situational Awareness

- Australia/US Ministerial talks (AUSMIN) Communiqués Nov 2010 and 2012
- Agreement to cooperate on SSA
- Australia/UK Ministerial talks (AUKMIN) Communiqué Feb 2011
- Australia offers unique geographical advantages
- SSA Radar at NW Cape (JP 3029)
- SSA Telescopes
- Space Environment Cooperative Research Centre (SERC)

AN/FPQ14 radar at Antigua
The Space Environment Research Centre [SERC] formed in 2014 is a large international program aimed at space debris mitigation.

Partners:

» NICT [Japan]
» Lockheed Martin [USA]
» OPTUS [Australia]
» ANU [Australia]
» RMIT University [Australia]
» EOS [Australia]

Future expansion of this collaboration is planned.
SERC Resources

$60M budget over 5 years plus:

» World best practice as starting point

Global best practice in debris tracking, orbital analysis and debris characterisation co-opted

» $90M+ in new research facility investment

Access to new space research and tracking facilities at Mt Stromlo and Tokyo (NICT) as well as major facilities with partners

» Management

Industry leadership mandated by funding agencies
The three SERC research programs are a direct assault on the remaining technology barriers facing satellite manoeuvre and debris manoeuvre.
Unlocking Imagination, Fostering Innovation, Strengthening Security

- 60th anniversary of launch of Sputnik
- 50th anniversary of the Outer Space Treaty
- 50th anniversary of launch of WRESAT (Australia’s first satellite)
COSPAR BID FOR 2020

Venue: Sydney

Led by: University of New South Wales
Levels of Activity and Decision

Strategic

Operational

Tactical

PROJECTS

Dep’t of Industry, BoM, GA, GNSS

PROGRAMS

Intelligence Community, Defence, HIGHLY CLASSIFIED
DFAT, Space Treaties, DTCA

SECRECY

NO END TO END NARRATIVE

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Questions

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