

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



April 2013 National Policy



Seven Principles

Focus on space applications of national significance

**Assure access to space capability
Strengthen and increase international cooperation**

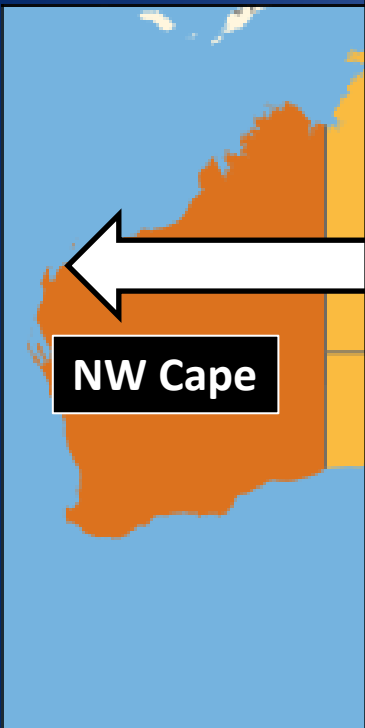
Contribute to a stable space environment

Improve domestic coordination

Support innovation, science and skills development

National security and economic well-being.

Space Situational Awareness



AN/FPQ14 radar at Antigua

- 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)

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

Mt Stromlo



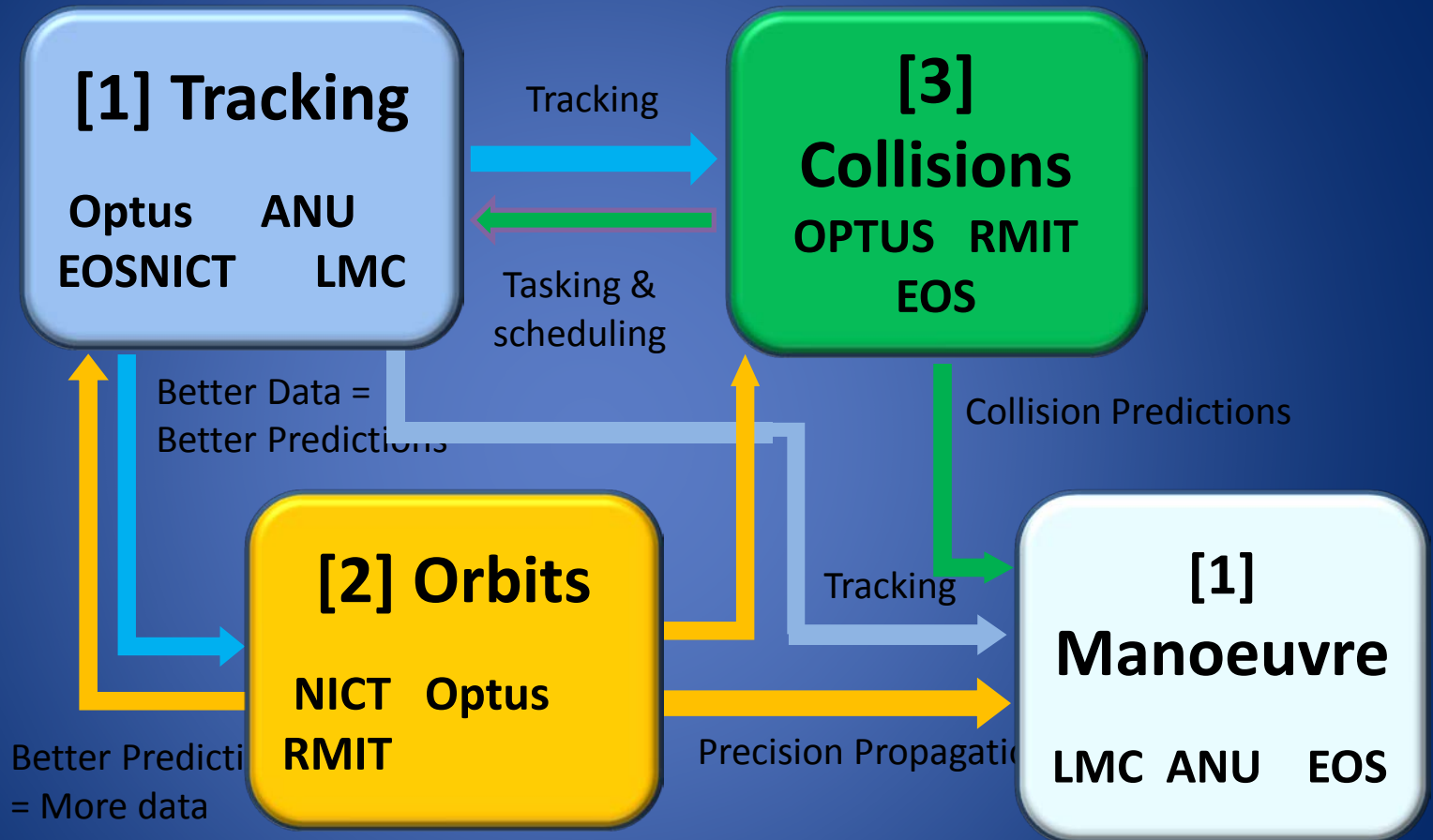
ANU Space Engineering



Tokyo



SERC Research Program Relationships



The three SERC research programs are a direct assault on the remaining technology barriers facing satellite manoeuvre and debris manoeuvre

68th International Astronautical Congress 25-29 September 2017, Adelaide



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)

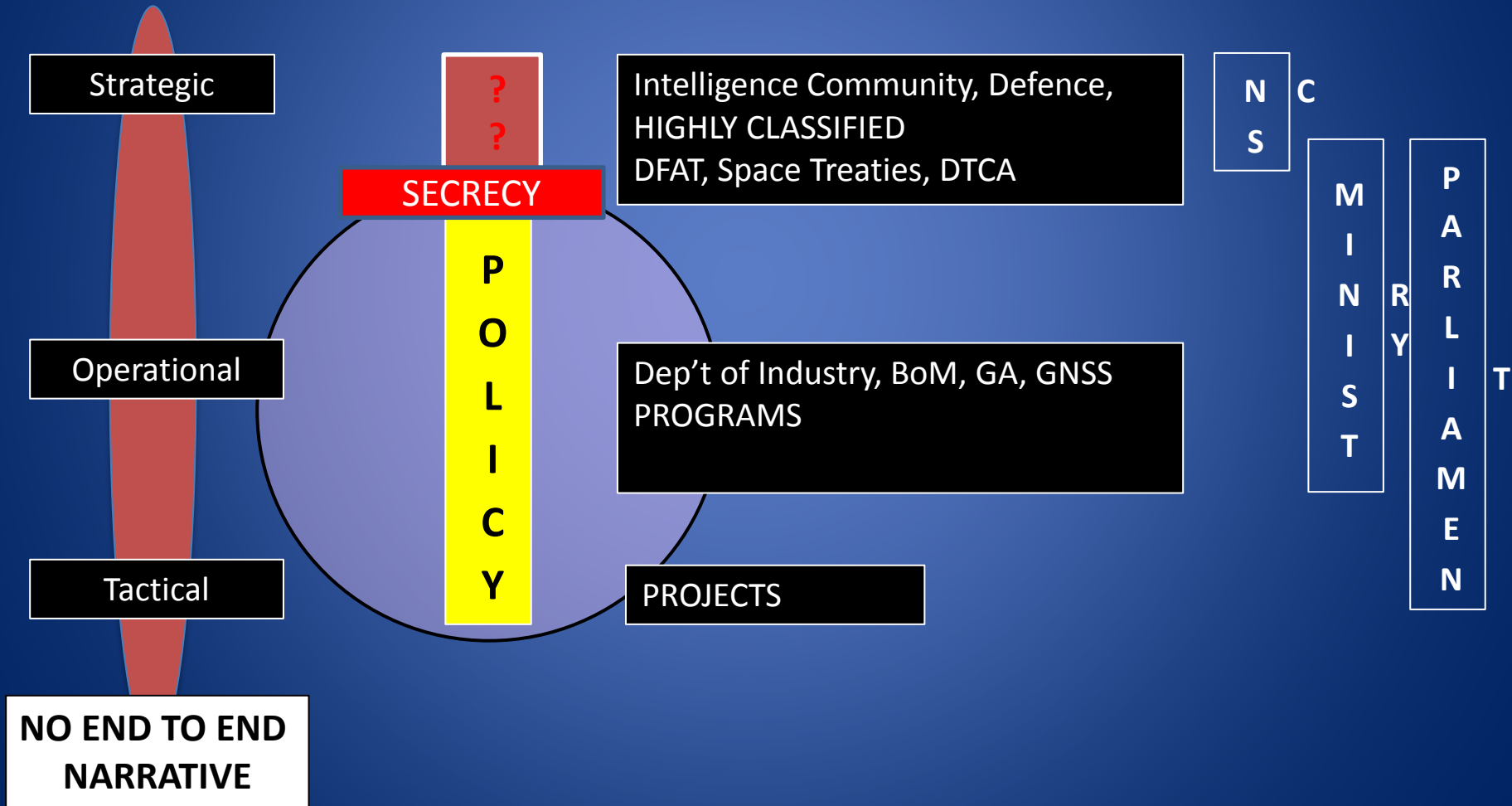
COSPAR BID FOR 2020

Venue: Sydney

Led by: University of New South Wales



Levels of Activity and Decision



Questions

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