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# 5<sup>th</sup> SA Space Forum

**South Australian  
Space Innovation Complex**

**Peter Nikoloff  
Director Nova Group  
12 Apr 18**



# SA Space Strategy

- Grow South Australia's economy through space activity
- **Invigorating South Australia's space innovation ecosystem**
- Engaging international cooperation with lead countries.



## **Space Innovation Complex**

- **SA Space Strategy**
- **IAC 2017 – Start-ups/SA Gov Workshop**
- **SA Gov Committed to helping start-ups**
  - **Establish a series for Test Areas to support innovative businesses with design, build and test of space systems**
  - **Remove or Minimise Barriers**
  - **Report commissioned in investigate Innovation complex requirements and options**





## **Space Innovation Complex**

- **Users**
  - **Start-ups**
  - **Established Industry**
  - **Universities**
  - **Research and Development Organisations**
- **Regulatory Challenges**
  - **Australian Communications Media Authority – ACMA (Spectrum Approvals)**
  - **Australian Space Act - Space Launch Licencing (above 100km operations)**
  - **Civil Aviation and Safety Authority (Below 100km operations)**
  - **Safe Work SA Explosives Management (Rocket Propellants)**
- **Requirements and Sites Trade-off**



## **Why Not Woomera Now ?**

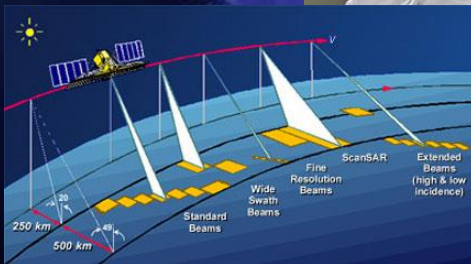
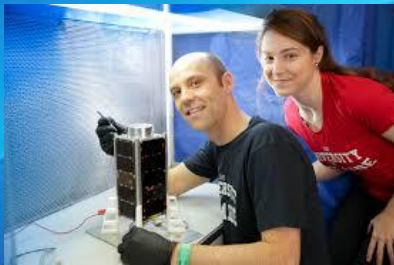
- **Legislation**
- **Woomera Mission**
- **Security Sensitivities**
- **High Tempo of Activities**
- **Sub-orbital and NOT Orbital (Hypersonics)**
- **Future Considerations**
  - **Upgrade**
  - **National Objectives**
  - **Space Agency / International Co-operation**
  - **Legislative Reviews**





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# Space Systems Development







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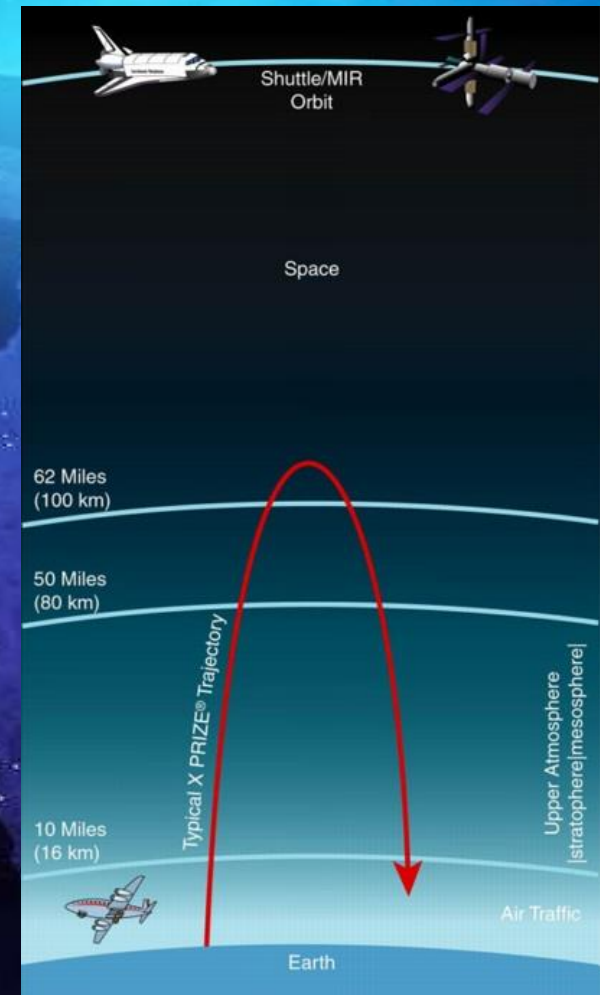
# Static Rocket Test





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## Sub-orbital Test

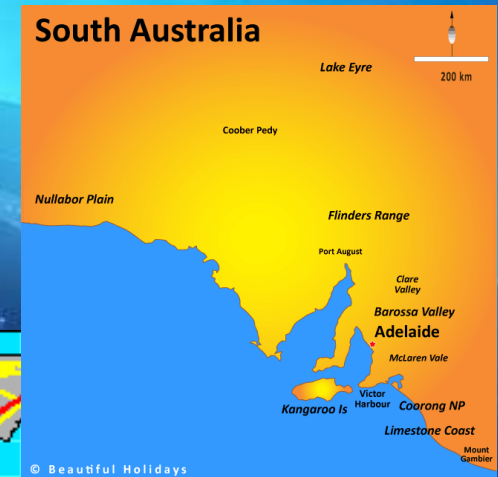
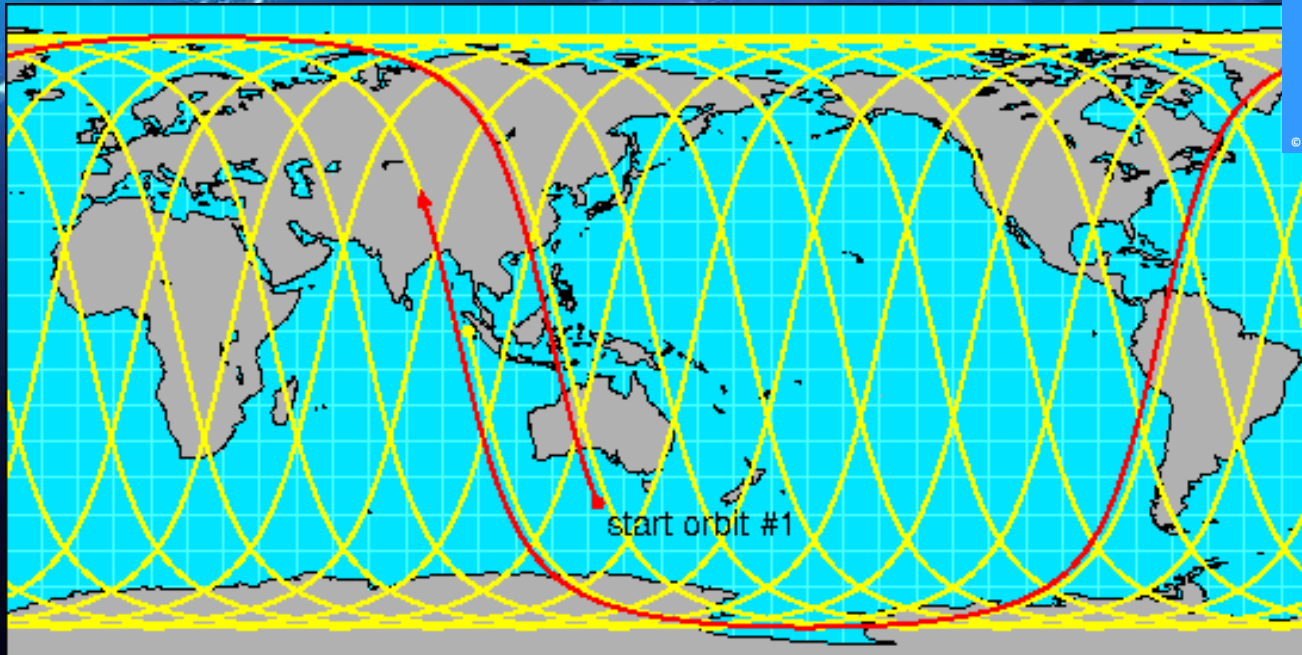






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# Orbital Launch





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# Satellite Ground Station







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# Unmanned Aerial Systems

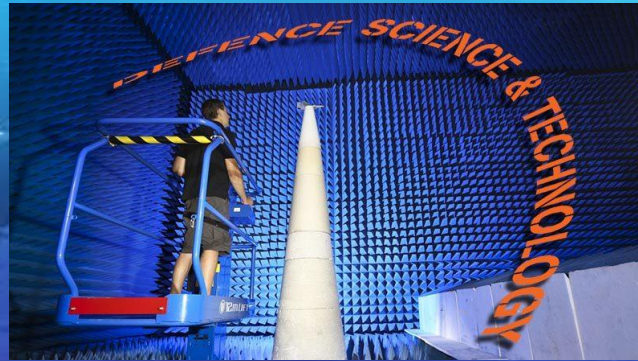






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## National Capabilities & MOUs







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# Australia's Space Future is Bright

- **SASIC**
  - Space Innovation Complex is on its way
  - Space Innovation Fund - Incubator/Accelerator UniSA
  - Internship Program
  - Numerous International Partnerships
  - States MOU
- **Australian Space Agency**



JOIN US IN THE  
**SMARTSATCRC**

BID COORDINATORS

PETER NIKOLOFF - NOVA SYSTEMS

PROF ANDY KORONIOS - UNISA

UNLIMITED RESILIENT DIGITAL CONNECTIVITY



# The Vision

Our Vision is to be a leading contributor to Australia's Space Economy through Satellite Technologies and Analytics.

# Research Programs

1. Advanced Communication Systems;
2. Intelligent Satellite Systems
3. Earth Observation Data Analytics; and
4. Space regulatory & policy environment

**These may change to align with industry strategic directions**



The global space industry is growing at a rate of 9.5% compared to the global economy of 2.5%. It is expected to reach more than \$1 trillion the next few years.



# An Exciting Journey

## CRC Process Timeline



# For Further Information

**Peter Nikoloff**

Director  
Nova Group

[www.novagroup.com.au](http://www.novagroup.com.au)

**T** +61 8 8252 7100  
**M** +61 417 161 822  
**E** [peter.Nikoloff@novasystems.com](mailto:peter.Nikoloff@novasystems.com)

**Professor Andy Koronios**

Dean, Industry & Enterprise  
University of South Australia

**T** +61 8 8302 7405  
**M** +61 438 851 905  
**E** [andy.koronios@unisa.edu.au](mailto:andy.koronios@unisa.edu.au)

**[www.smartsatcrc.com](http://www.smartsatcrc.com)**



# Questions

