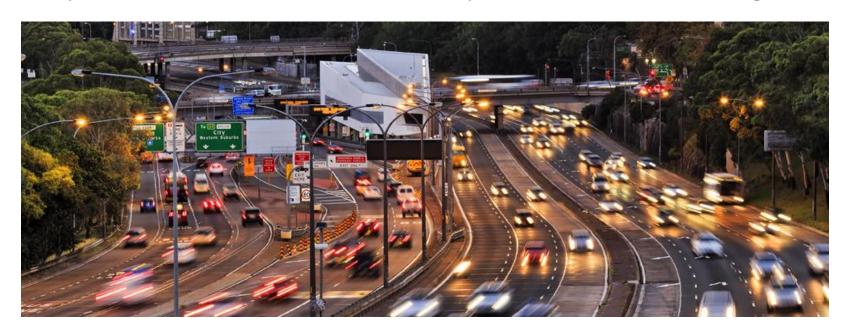
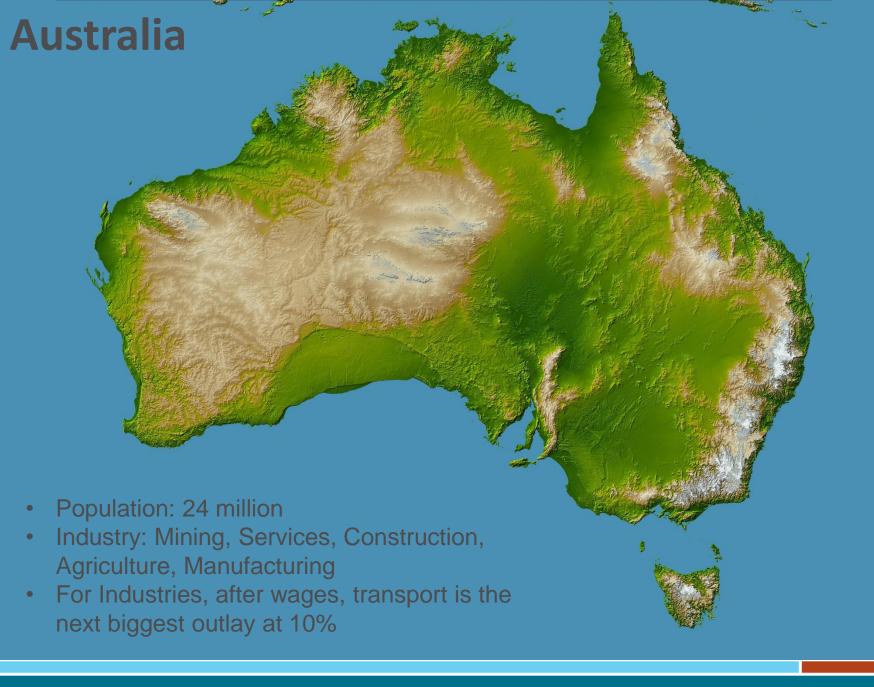




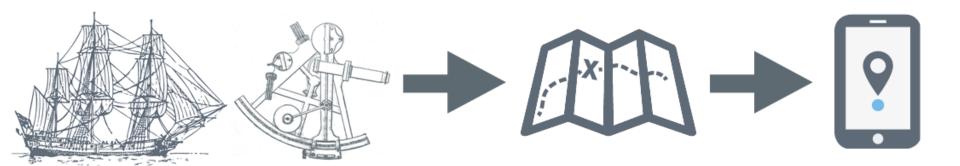
Satellite Positioning: a key element of Australia's digital future

Gary Johnston, Branch Head Geodesy and Seismic Monitoring





Importance of Positioning



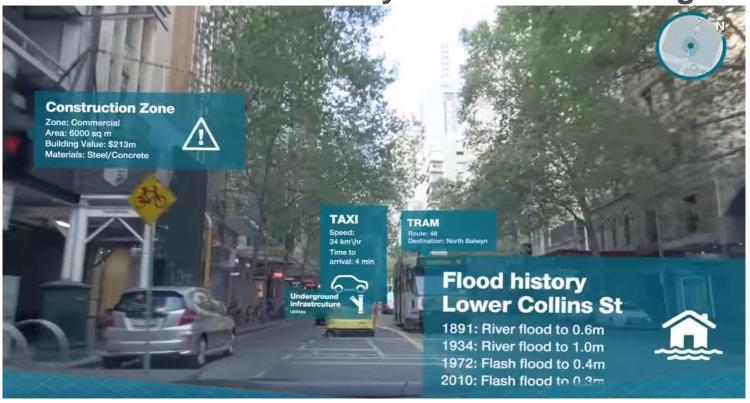


All Australians will benefit from access to precise positioning information and technology.

Positioning: Foundation of the Digital Economy

Big Data Augmented Reality

Multimodal Logistics

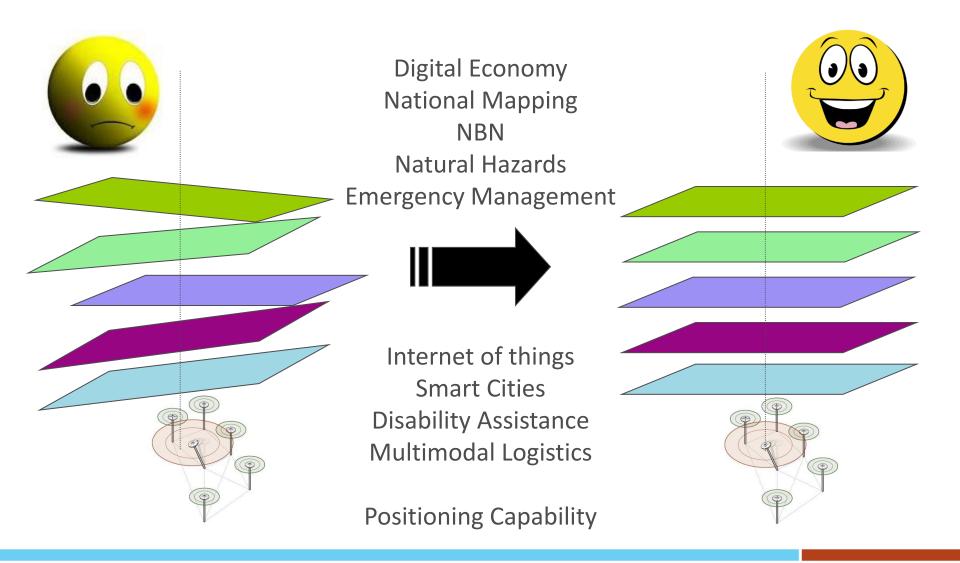


Smart Cities

Internet of Things

Disability Assistance

Importance of Positioning to the Australian Government



~\$1.1_b



Adopting precise positioning technology in the mining industry was estimated to have increased output by \$1 085 million in 2012 alone.



~\$466m 115

Precise positioning technology was estimated to have increased yields by up to \$466 million in 2012.



Key Idea



Make our industries more productive and safer



Encourage innovation and new businesses

Challenges





AUSTRALIA'S NETWORK OF GNSS GROUND STATIONS



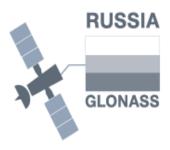
NATIONAL COVERAGE VIA SATELLITE



Opportunity













GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS)

Positioning – different users, different needs

Accuracy

How close is my Position to the 'truth'?

Integrity

Can I trust my Position?

Accessibility

- Where can I receive corrections to improve my Position?
- Is it cost prohibitive? Is it supported by user equipment?

Resilience

- Can I rely that Position is available when I need it?
- How susceptible is it to spoofing and jamming?
- Should Australia have some sovereign control?

Where to next?









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