



Collaboration, Innovation and Resilience: Championing a Digital Generation

Brisbane, Australia 6-10 April

The NSW Gravity Model: Australia's First State-Wide Airbourne Gravity Model

Thomas Grinter – DCS-Spatial Services (Presenter)

Volker Janssen – DCS-Spatial Services

Maria Jansen – DCS-Spatial Services



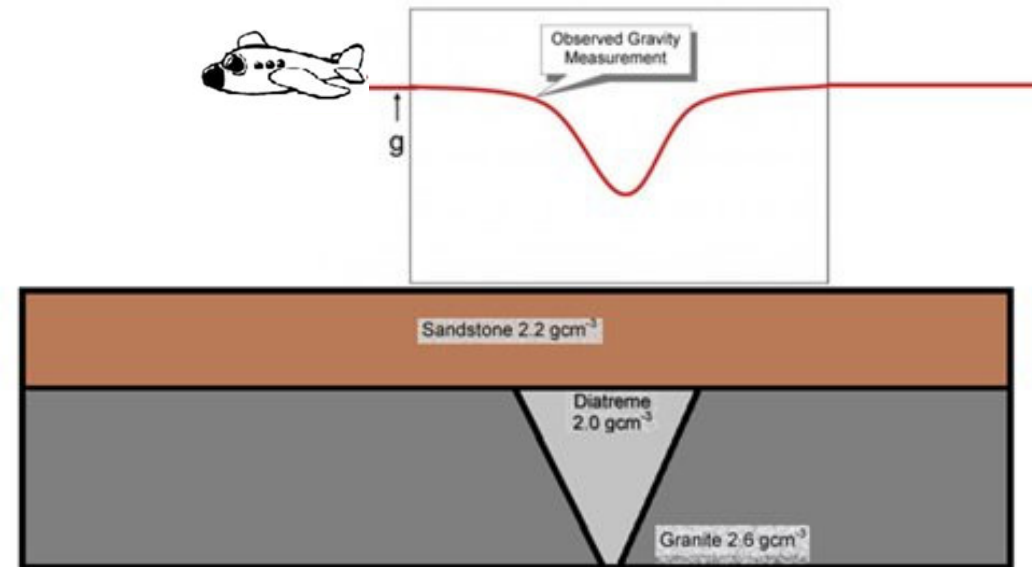
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NSW Gravity Model - Why Airbourne Capture?

Measures gravity utilising a highly accurate
Gravimeter & GNSS

- Easy to obtain consistent coverage over otherwise inaccessible areas (mountains, shallow coastal regions)
- Covers large areas quickly and cheaply compared to terrestrial methods
- Can cover the littoral zone easily where there are large errors in satellite altimetry and terrestrial or shipborne methods aren't practical
- Measure once, use forever





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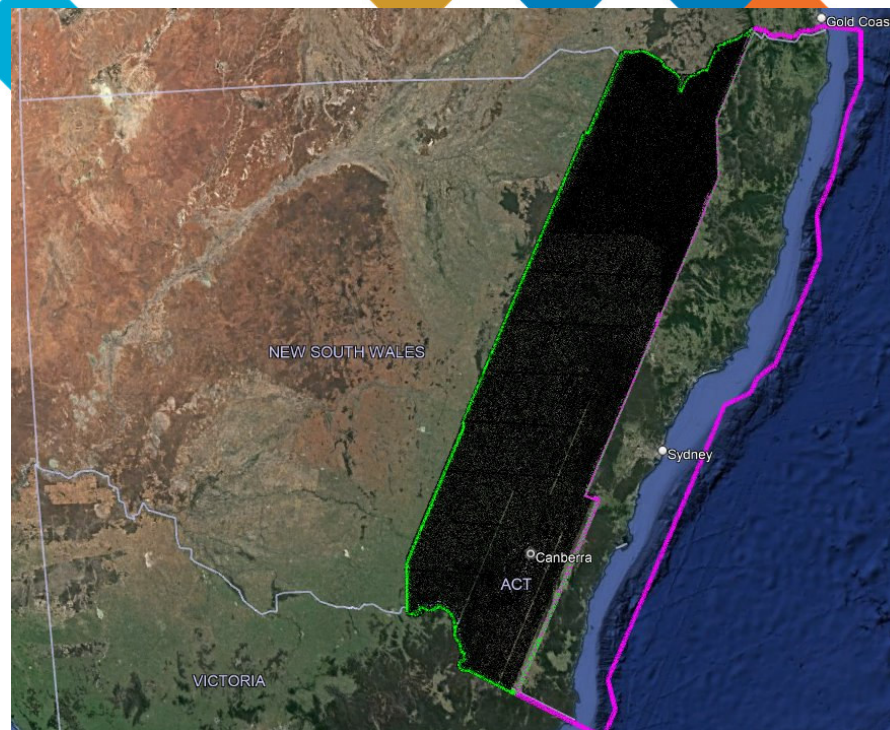
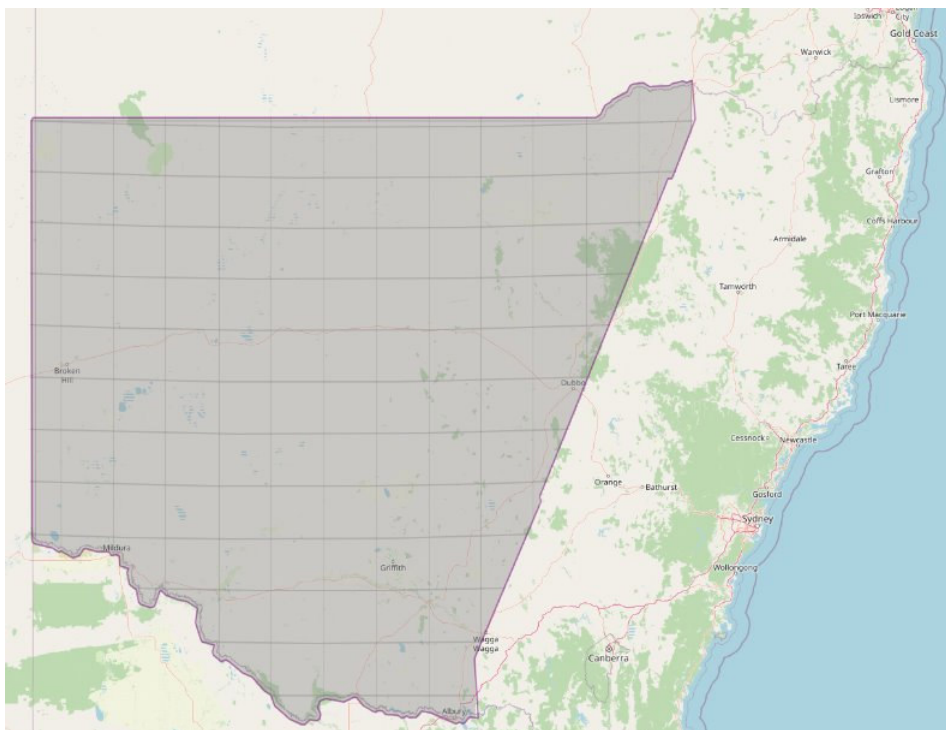
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NSW Gravity Model - Capture



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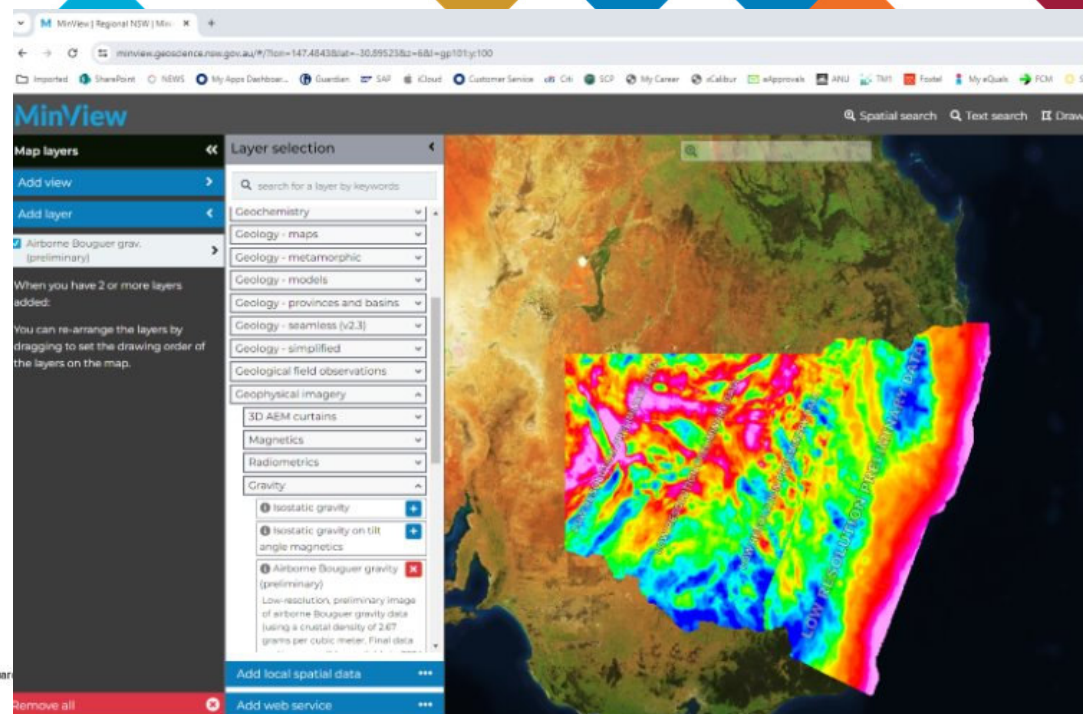
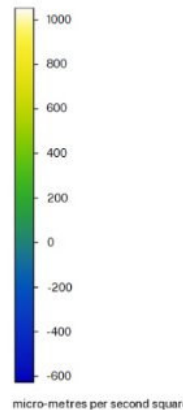
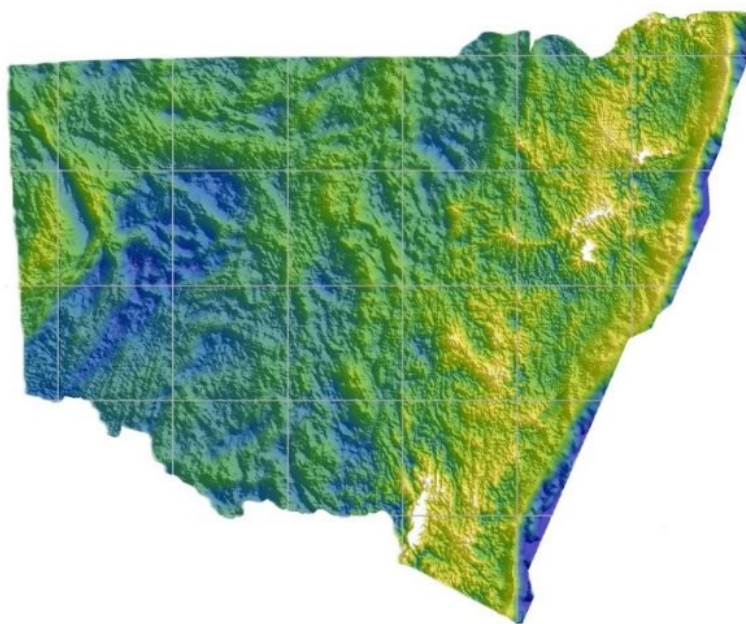


NSW Gravity Model - Benefits

8 DECENT WORK AND
ECONOMIC GROWTH



7 AFFORDABLE AND
CLEAN ENERGY



NSW Gravity Model - Benefits





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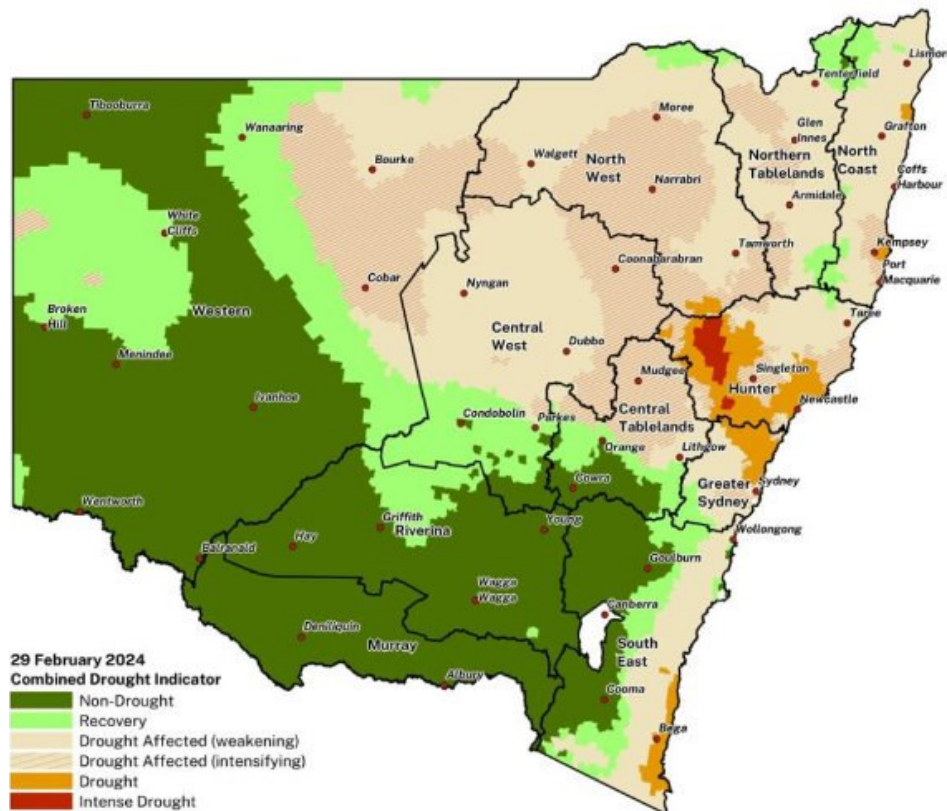


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NSW Gravity Model - Benefits

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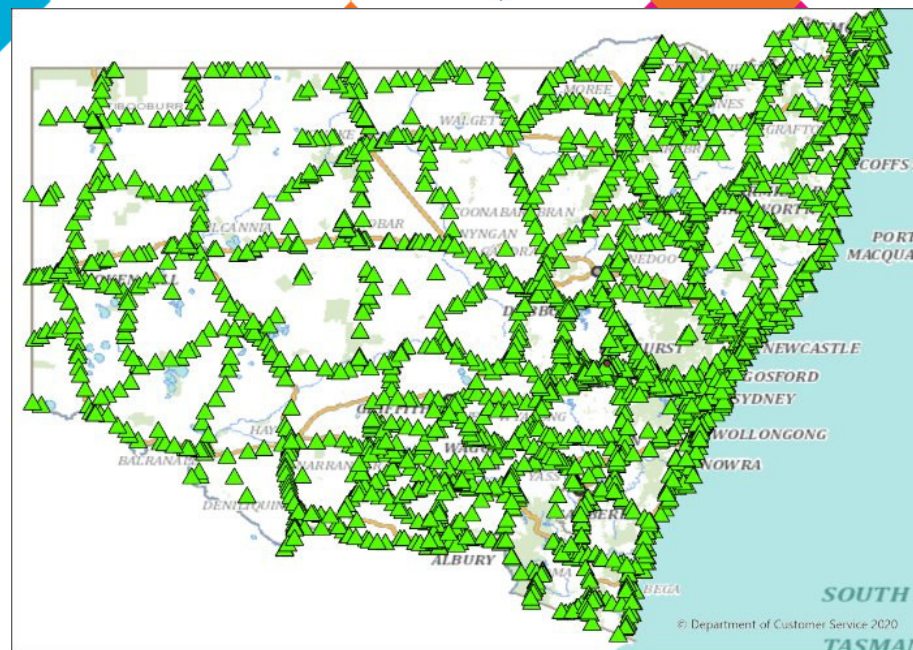
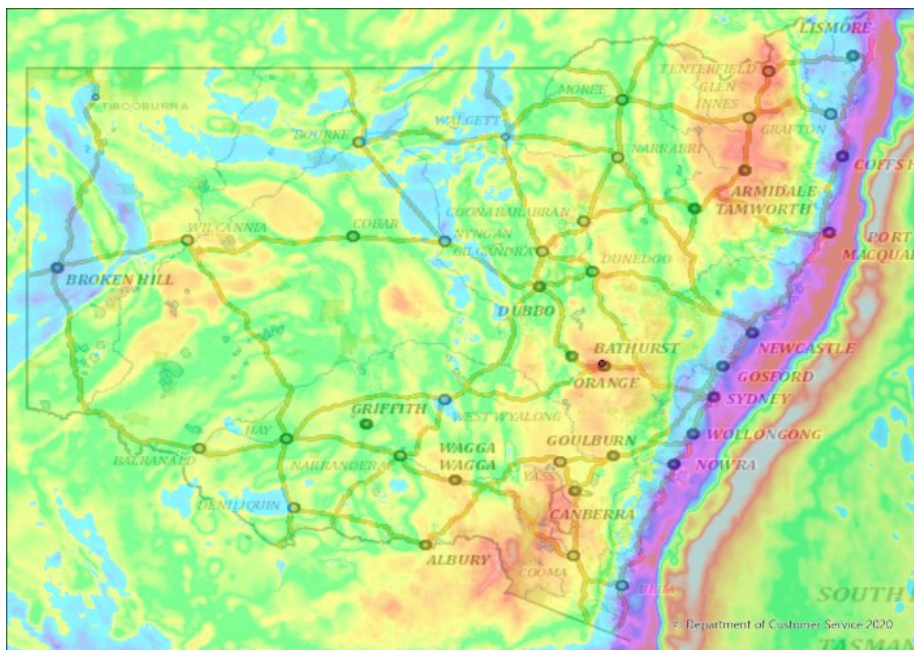


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NSW Gravity Model – Next Steps

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



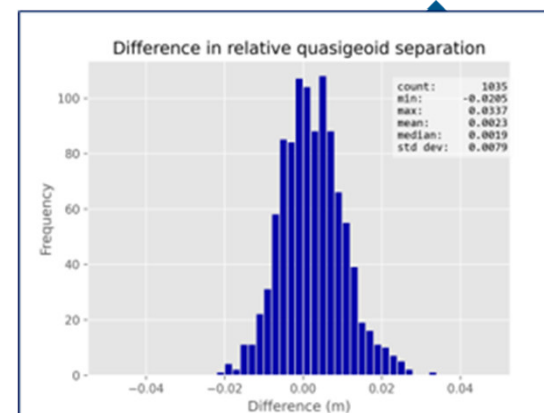
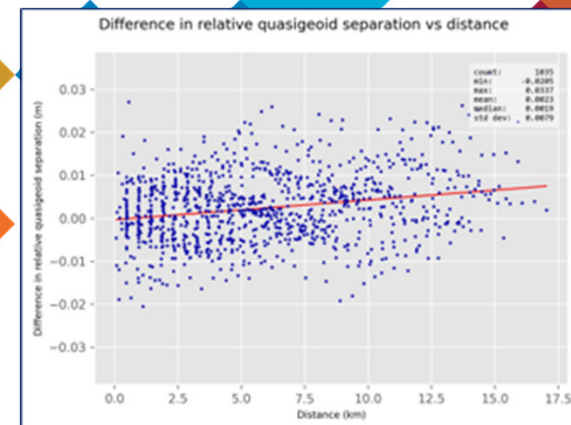
NSW Gravity Model – Next Steps

Data:

- ~17 km project area
- Co-observed, modern levelling and GNSS
- AGQG v20250202

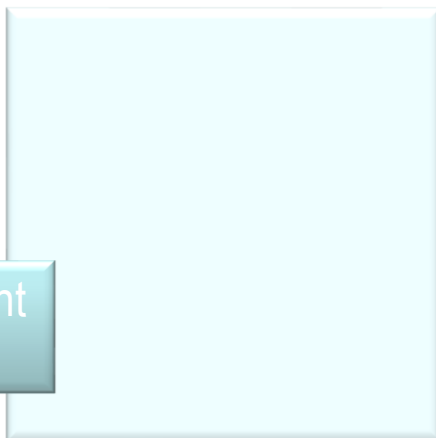
Outcome:

- Mean: +0.002
- Median: +0.002
- StdDev: 0.008
- **Sub-centimetre performance**

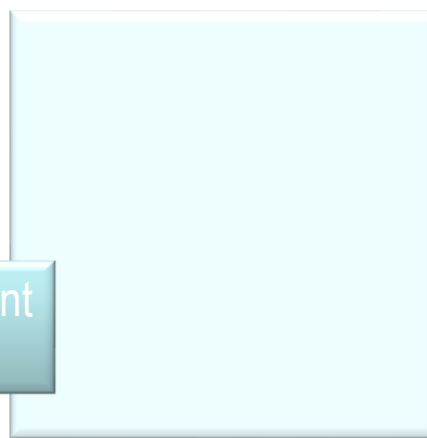


The most relevant SDGs related to the presentation and theme of this session

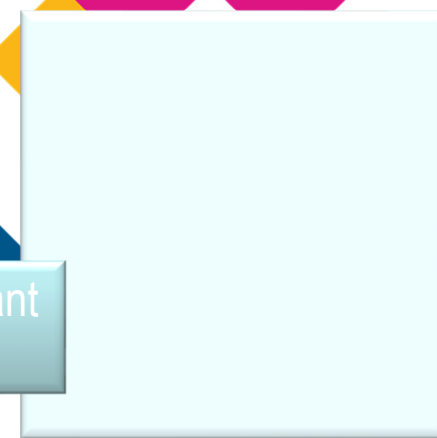
1st relevant
SDG



2nd relevant
SDG



3rd relevant
SDG



**SUSTAINABLE
DEVELOPMENT GOALS**

International Federation of Surveyors supports the
Sustainable Development Goals



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STEP 1: SELECT HERE THE THREE MOST RELEVANT SDGs
STEP 2: COPY THE SDG INTO PREVIOUS SLIDE



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