



Collaboration, Innovation and Resilience: Championing a Digital Generation

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Inland Rail - On Track Spatially

Applications and Challenges of Mobile Mapping

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Presentation overview

- Program Overview
- On Track Spatially - Mobile Mapping
- Sustainable Development Goals





Program overview



Enhancing our national freight and supply chain capabilities



Connecting existing freight routes through rail, road and ports



Supporting Australia's growth



Reducing congestion and carbon emissions from fewer long-haul trucks



Applications and challenges of mobile mapping

Aerial Imagery & LiDAR capture assist Inland Rail with:

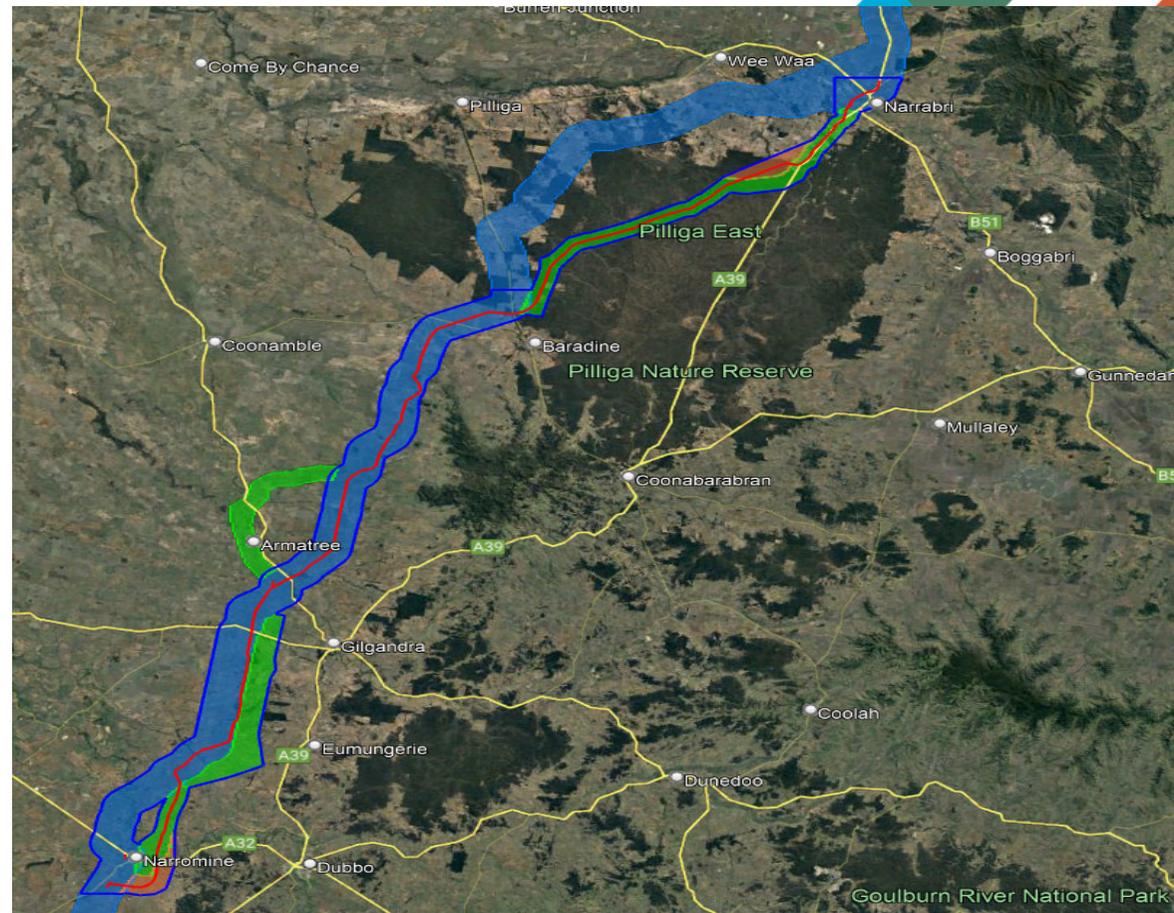
- Route Selection
- Flood Modelling
- Concept Design
- Quality Assurance Validation



Applications and challenges of mobile mapping

Aerial Imagery & LiDAR capture provide additional benefits:

- Fast accurate data capture
- Reduced impact on landowners
- Align with project phases
- Feature extraction / background information



Applications and challenges of mobile mapping

Continually Operating Reference Station (CORS)

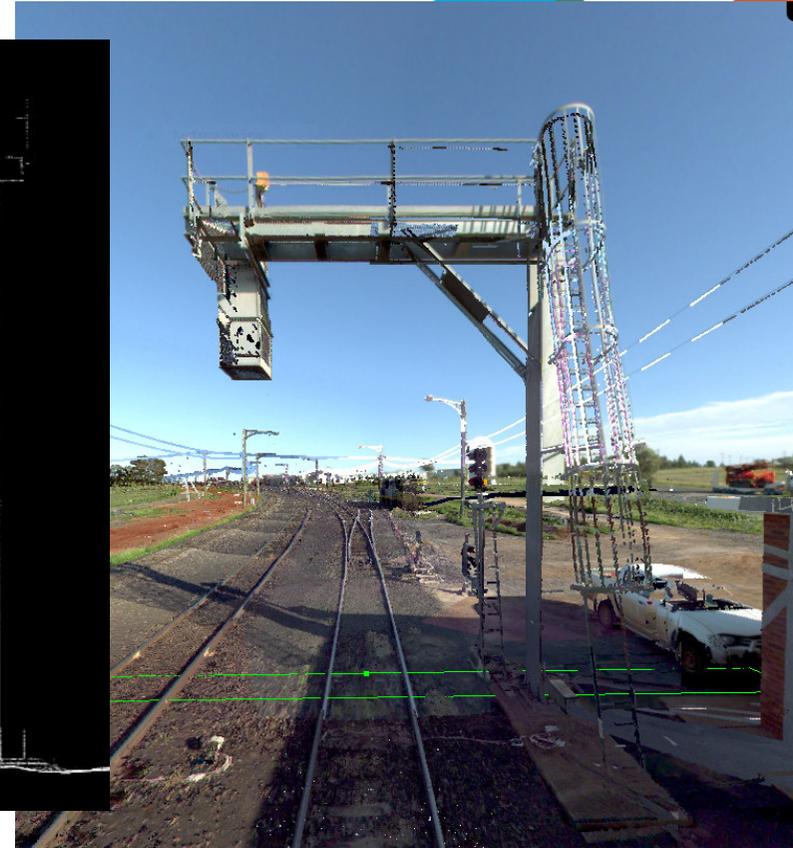
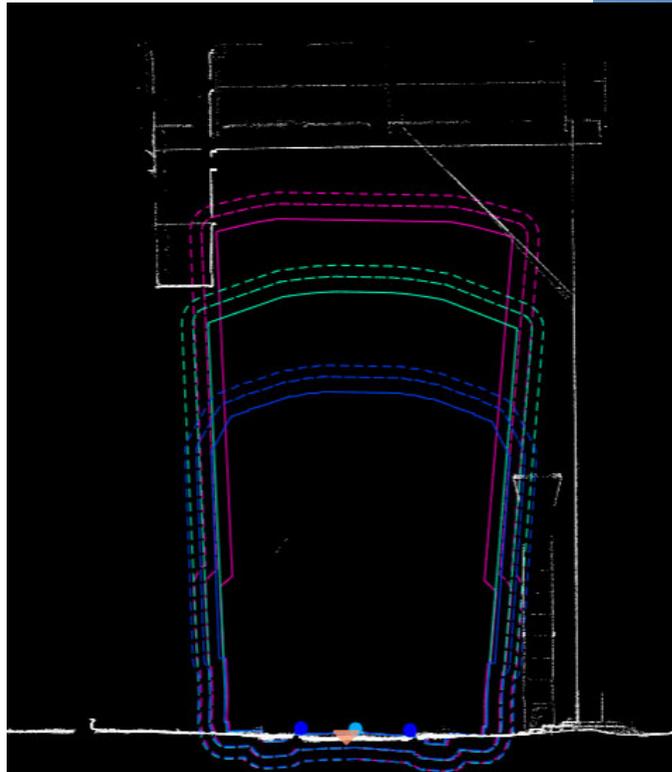
- 5x CORS stations
- Geoscience Australia
- Constant Datum



Applications and challenges of mobile mapping

Track Scan LiDAR

- Vehicle and train mounted
- Infringement Assessments
- Tolerances / relativity
- Survey data?



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

1st relevant SDG



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

2nd relevant SDG



13 CLIMATE ACTION

3rd relevant SDG



11 SUSTAINABLE CITIES AND COMMUNITIES

SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals