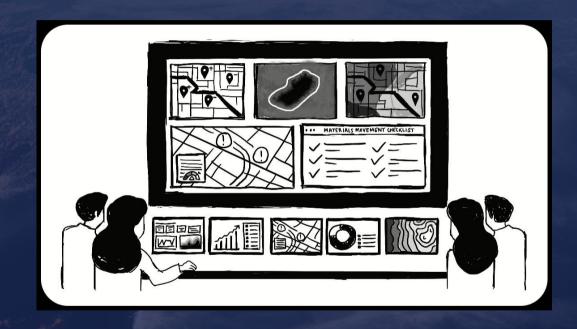


Tracking Material Movements – A Growing Challenge



- How do you track thousands of cubic metres of material over a dynamic project landscape spanning many years?
- Unique requirements, varying material types / quantities from > 1,000 originating sites.
- Purpose-built geospatial solutions enable smarter tracking, real-time oversight, and better decision-making.



Why Material Tracking With GIS is Critical



01

Environmental Outcomes

02

Compliance & ESG

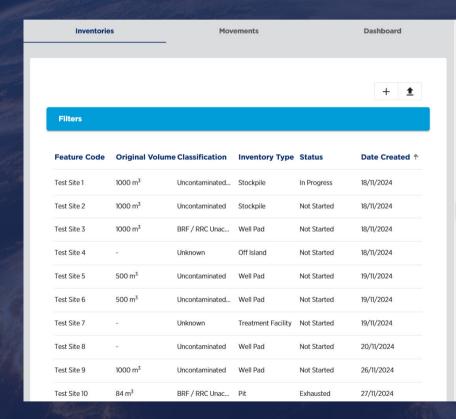
03

Data Complexity

Traditional Methods Aren't Enough



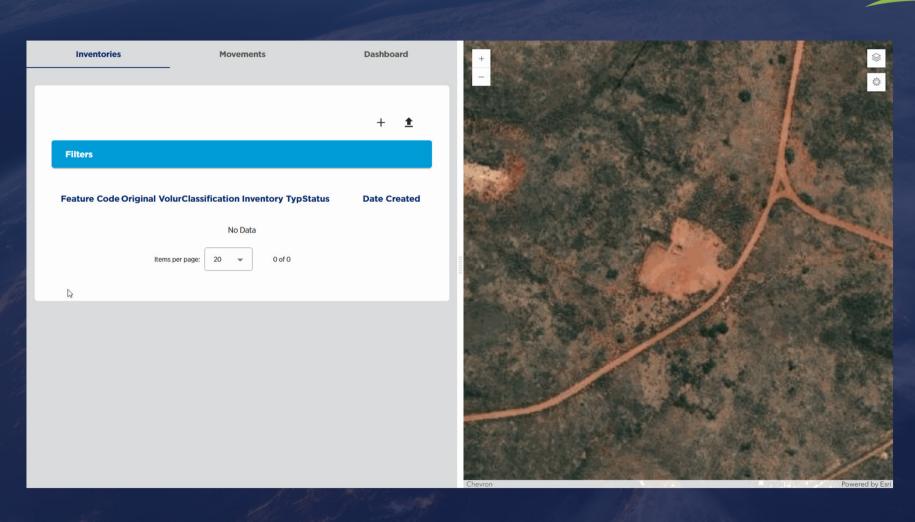
- Pain points:
 - o Errors
 - o Inconsistencies
 - Lack of scalability
- Need an integrated system.
- Must be trust in the data.





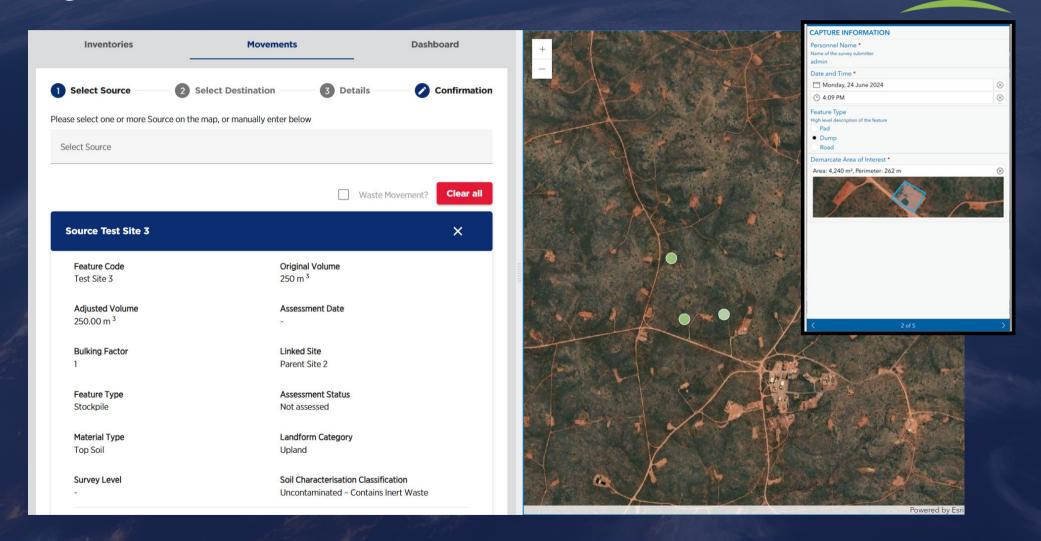
Building a Smarter, Scalable System





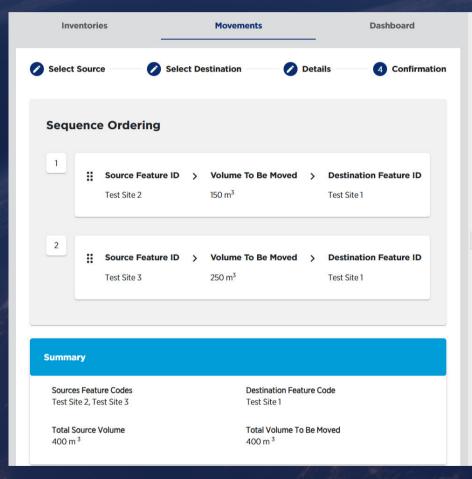
Designed for Field and Office Teams





Guided, Structured and Compliance Focused

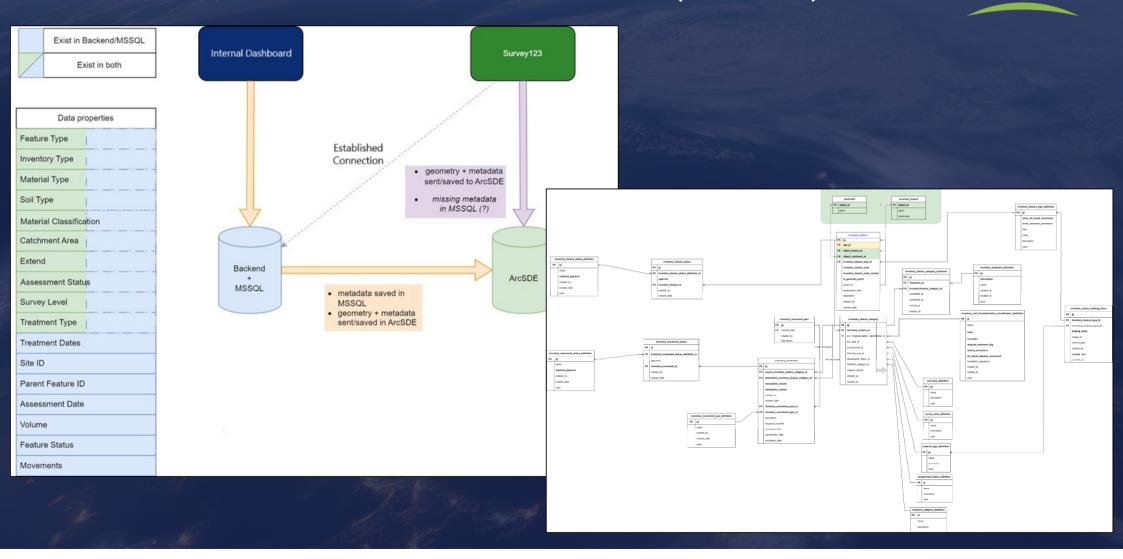






Powerful, Flexible and Future-Proof (for now)





Beyond Remediation: What's Next?



MVP Release, 1st Update, 2nd Update...

- Improved dashboard visuals of key metrics.
- Potential applications in mining, infrastructure, environmental management.
- Further integration with a sites operating systems – routable road network, IVMS, geofencing proximity alerts etc.
- Ingestion of sampling and laboratory data and concentration heat mapping.
- Handheld device lidar image capture to support volumetric calculations (voids, stockpiles etc.).





Brisbane, Australia 6-10 April

The most relevant SDGs related to the presentation and them. **ession**









International Federation of Surveyors supports the Sustainable Development Goals





















Final Thoughts



- Design, build, integration and test of an advanced technology stack.
- Multi-disciplinary collaboration.
- · Scalable and customisable design.
- If material tracking is a challenge in your organisation, how could a system like this improve efficiency and compliance for you?





Thank you

Craig Currie Senior Geospatial Consultant NGIS Australia

craig.currie@ngis.com.au





