

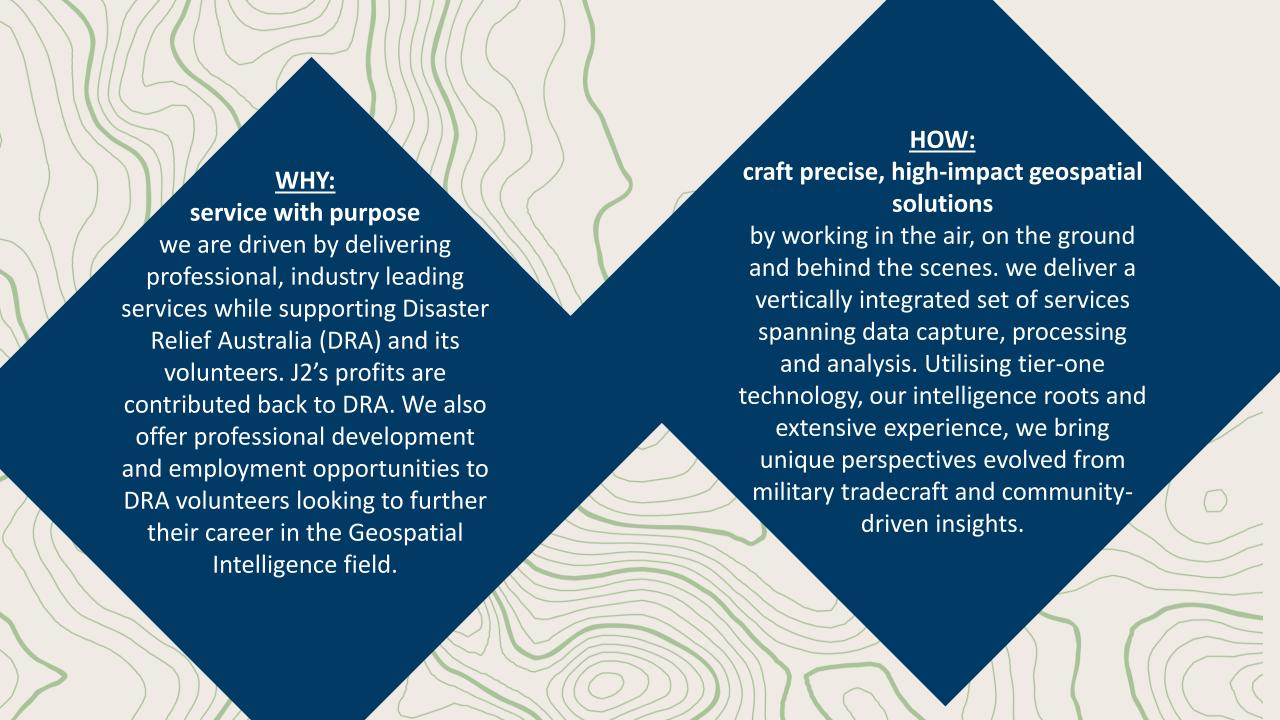


- •Who is J2 Geospatial Intelligence Services
- •What, How and Why we do it
- •Disaster Intelligence Services: Proactive and Reactive
- •General Capabilities and Case Studies
- Our approach to capacity-building
- Team-building process and structure
- •Veteran-led model: why& how it works
- •Why this initiative is important to us
- •Q and A

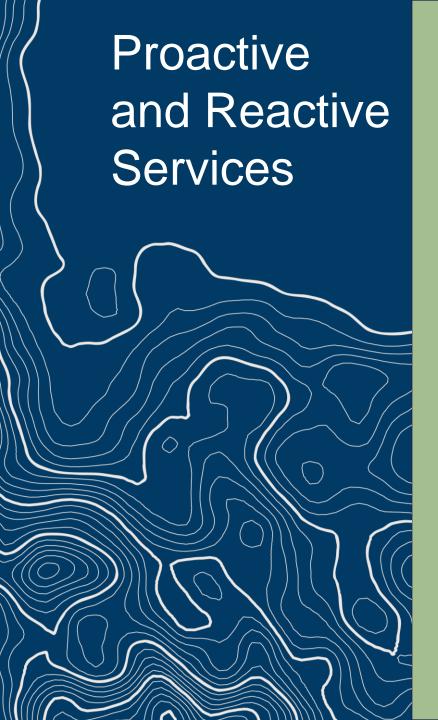












Proactive

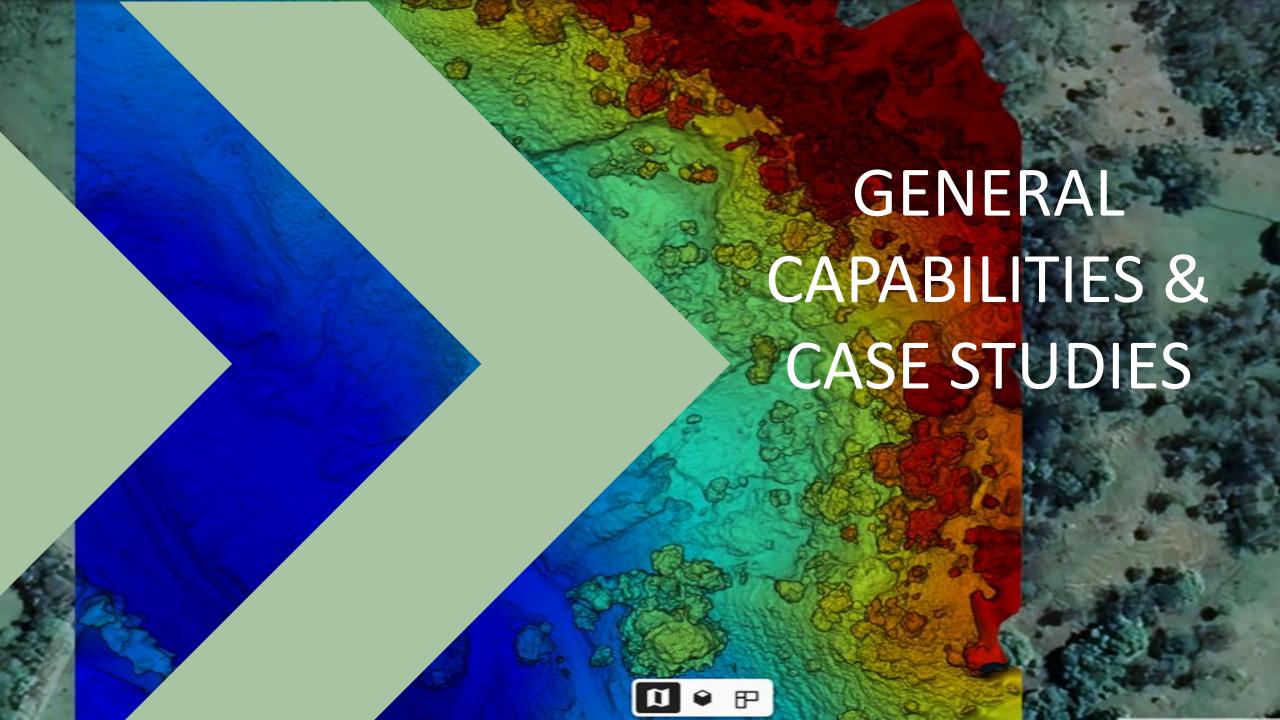
- Hazard Exposure Mapping
- 'Disaster Wise' Assessments

Reactive

- Small Drone Team deployments to conduct rapid impact assessment and provide situational awareness
- Impact mapping and critical infrastructure damage assessments
- Common operating picture creation and maintenance

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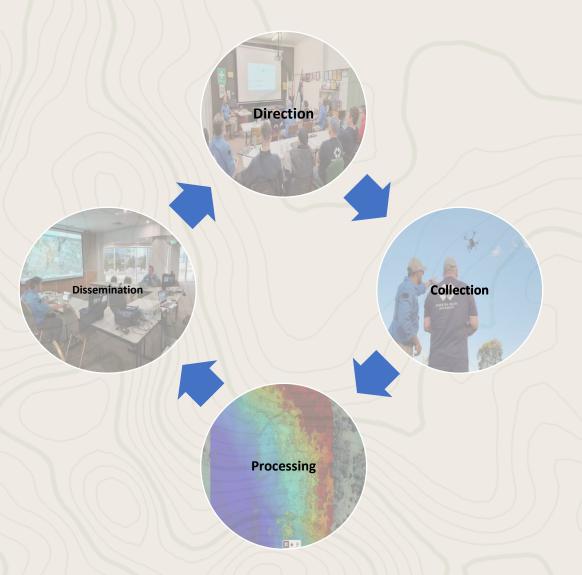




- Small drone pilot teams of 2 people
 - CASA licensed RPAS Pilots (aligned with ICAO standards)
- Geospatial Intelligence Analysts
- Multirotor and eVTOL Drones
- RGB, Thermal, Multispectral and LiDAR Imagery sensors
- Utilise Satellite, Manned aircraft and Drone mapping
- 2D and 3D models using photogrammetry and LiDAR point clouds
- ArcGIS and QGIS software
- Fulcrum Damage Assessment Software
- Staff located throughout Australia
- Surge capacity support to external agencies



Intelligence Cycle



J2 Intelligence Cycle

Field Team















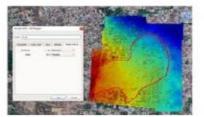








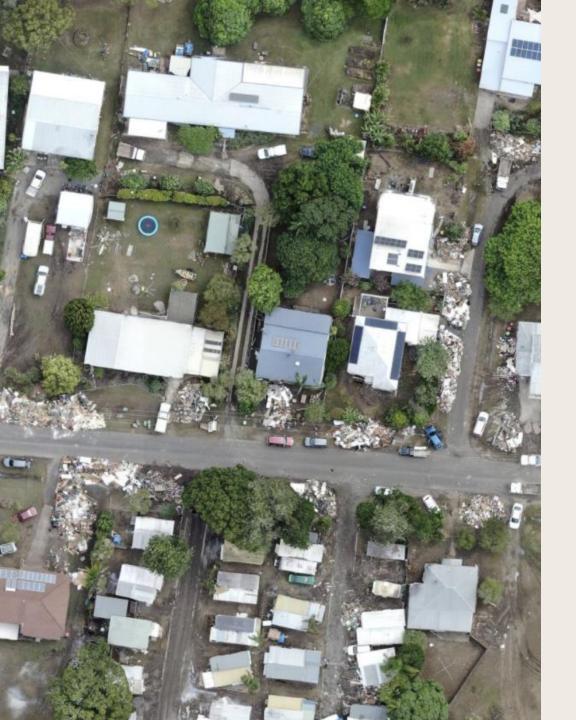








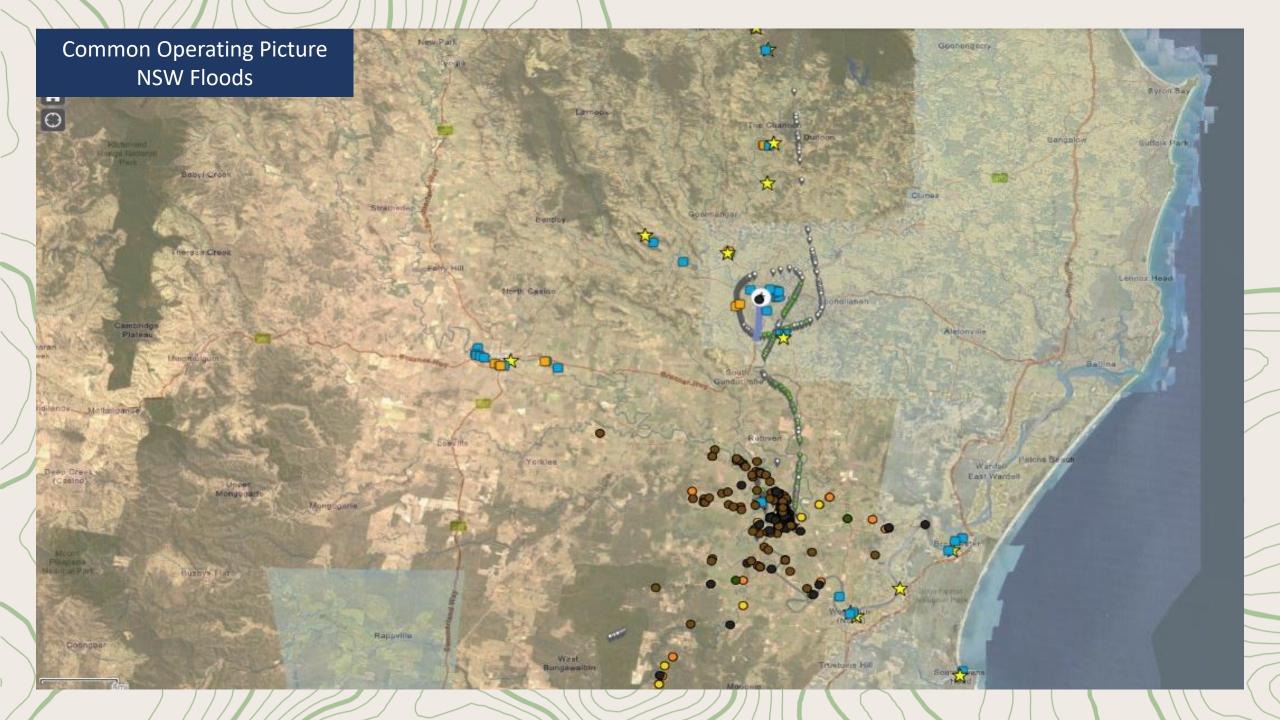




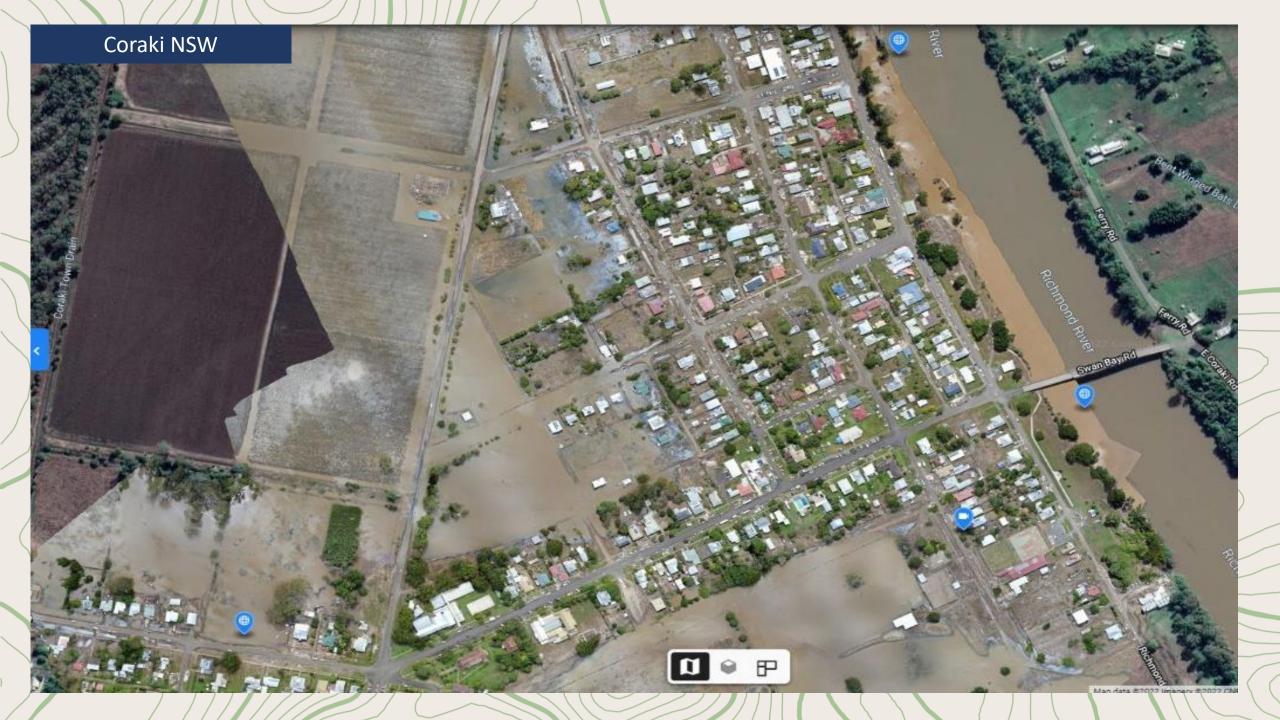
NSW Floods

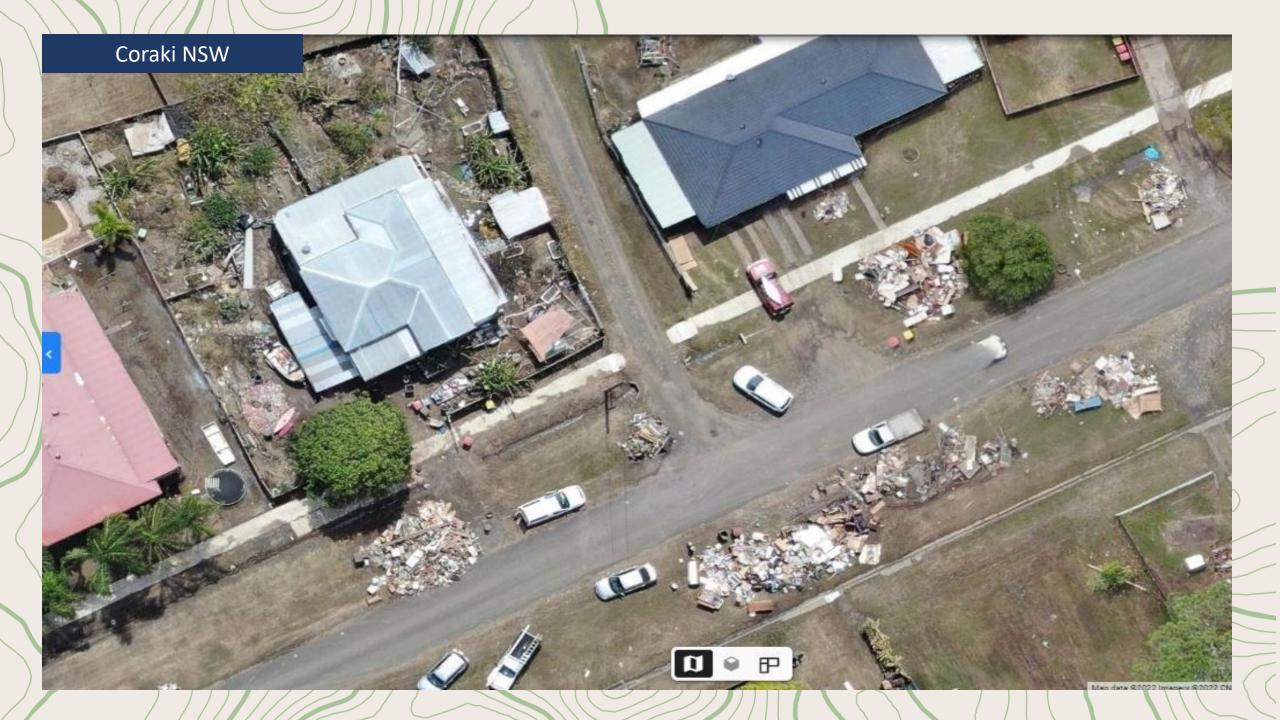
221 flights captured by 3 two-person teams over 2 weeks

- 360 degree panoramas
- 2D and 3D maps
- Landslip and critical infrastructure mapping
- Volumetric measurements
- Ground based 360 degree "streetview" mapping

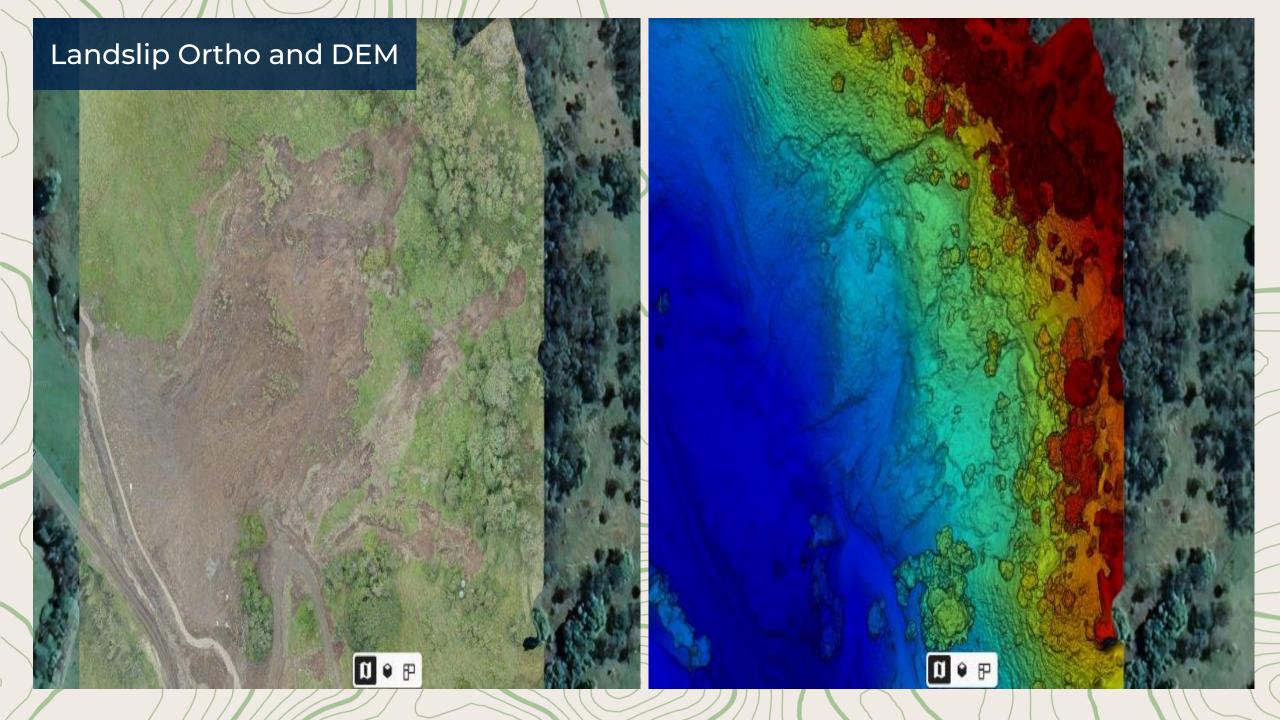




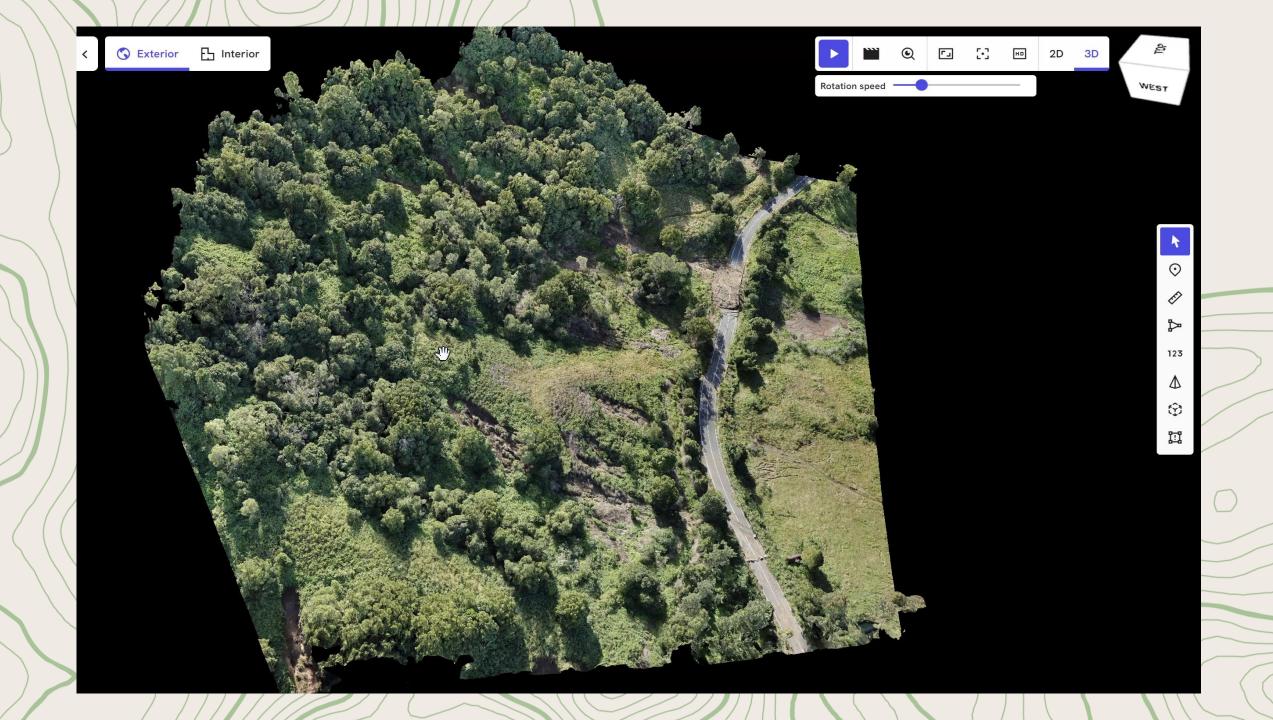




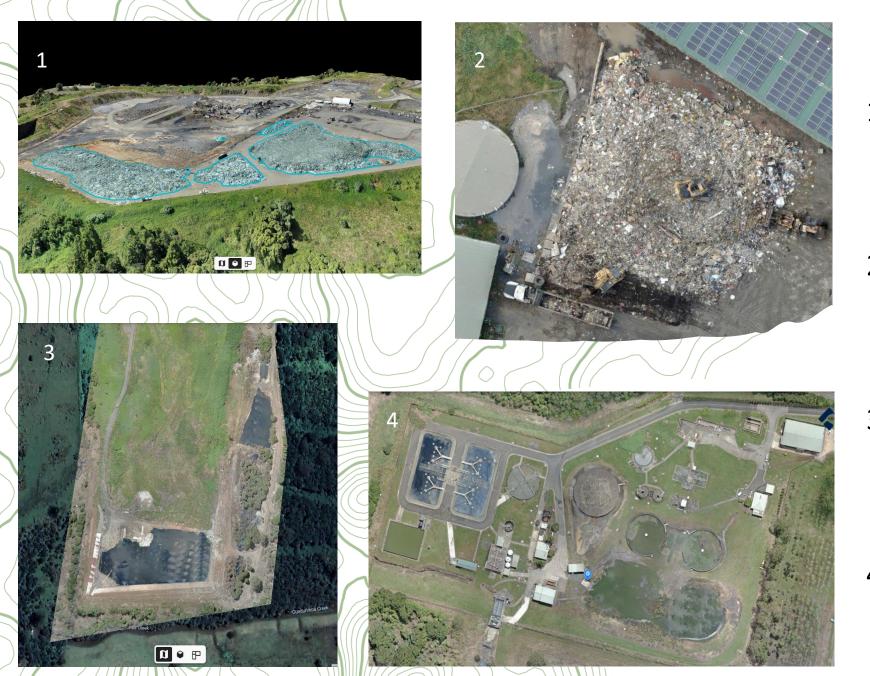






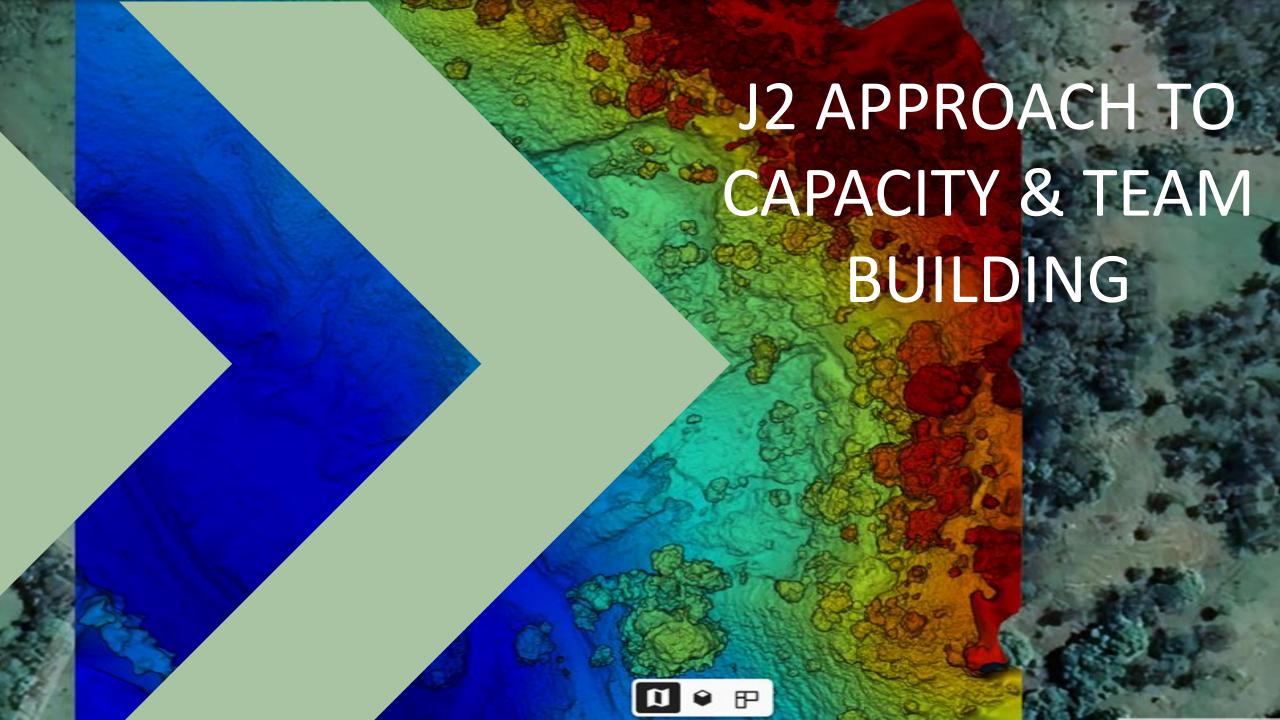








- Quarry Waste
 Volumetric Stockpile
 measurement
- Waste Facility
 Volumetric
 Measurements
- 3. Waste Facility
 Tailings Dam
 Integrity Assessment
- 4. Sewerage TreatmentPlant DamageAssessment



Capacity Building Approach



- Establish a local, organic capability
- Low-cost model:
 - Equipment
 - Softwares
 - Train-the-Trainer
- Teams of Pilots and Analysts are volunteers
- Driven by a strong culture and confident operating model
- Ensuring surge support and advisory- IF and WHEN needed

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Teambuilding process & structure

- Volunteer recruitment
- Creating a positive and motivated culture
- Geographic distribution
- Equipment caches
- Ability to mobilize and deploy
- Low-drag but cohesive command and control
- Ensuring an localized, organic capability



Veteran-led model and why it works

- Dual-value proposition:
 - Impactful disaster relief
- Professional development and Veteran reintegration back to civilian society
- Value of continued service back to communities
- Common language, processes & prior training
- Agile command and control
- Repurposing of defence-skills ideal for disaster relief
- Not exclusive to veterans inclusive to emergency services and skilled-civilians
- So what if there are no veterans?



Why this initiative is important

- We are a social-enterprise
- First-hand appreciation of how impactful this capability can be
- DRA's initial remit to work with regional partners
- Combating climate-change is a joint-effort
- Learn from each other
- Potential to expand into broader capacity building initiatives in disaster relief







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