

Maximo HS&E at Transpower

September 2014

TRANSPOWER

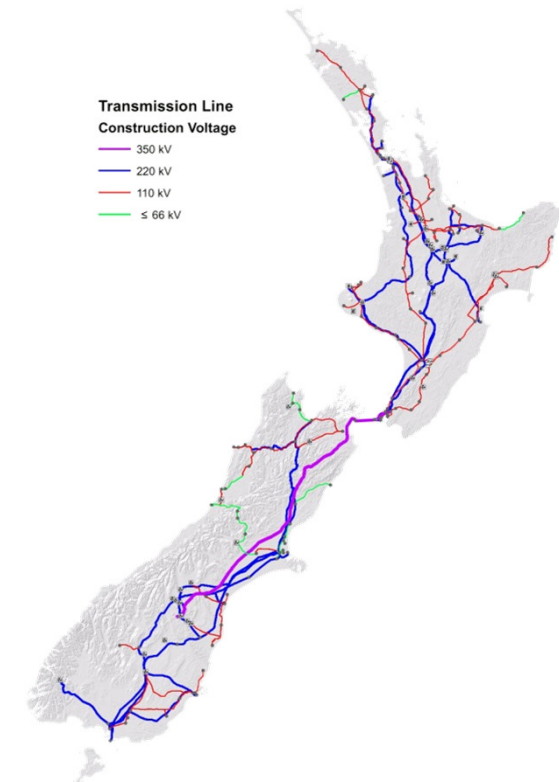


Keeping the energy flowing

Transpower New Zealand Ltd The National Grid

Who is Transpower?

- Transpower is the state-owned enterprise that owns and operates New Zealand's National Electricity Grid.
- 11,800km of high voltage lines, 178 substations
- 41,000 towers and poles on and over 45,000 properties
- 380 power transformer banks; 2,300 circuit breakers etc
- \$2.5 billion worth of total fixed assets



About us

- We contract out 100% of our maintenance and project work
- Including contractors there are 2500 people working for TP every day
- 1300 of these people are involved in high risk activities every day.



Maximo Implementation

- Went live with Maximo 7.5 for managing work, assets and inventory in July 2013
- Implementation was achieved within 12 months – stuck to Maximo out of the box and empowered business SMEs to make decisions
- 400 users across Transpower and Service Providers, with suitable training provided prior to go-live
- Plan was always to follow go live with a second 12 month cycle, adding additional functionality around Spatial, Inventory, Work Management, Business Intelligence and HS&E



Transpower's Previous HSE

- Incident Tracking
 - executed in Legacy System (ICAR)
 - ICAR nearing end of life
- Hazard & Risk Management
 - managed in silos
 - not available in single system (e.g. Maximo) or linked to assets



Why Maximo for HS&E?

Transpower was ready for a **smarter** tool to reflect its evolving & maturing approach to safety

Maximo can help us achieve

- better integration with other systems and information → holistic view
- richer data collection opportunities → more layers & factors
- more meaningful reporting → greater linkages → better visibility of important or emerging trends
- evidence-based decision-making → opportunities to “close the loop” & continuously improve



But more than safety, Maximo HS&E can be used for managing any types of incidents, and track corrective actions and investigations

Asset Centric H.S.E



CoSmart
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BENMORE POWER STATION
TP 51348/2
COLOUR OBLIQUE
9/08/181



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Maximo Health, Safety and Environment Manager

Transpower
Evaluated

Critical Business Processes
Health, Safety & Environment Applications
Supporting Maximo Processes



HSE Trial Project

- Incident Management
 - Replace the legacy system (ICAR)
- Risk Management
 - align our Risk Strategy with our Asset Management Strategy
- Hazard Management
 - tie Hazards to Incidents in a meaningful way
 - gain understanding on Hazard / Asset Relationships



Why a Trial

- Introduced safety incidents first as a trial
- Most urgent need
- Safety achievable within time frame
- Minimise change fatigue on a business that had just had Maximo introduced



Objectives of HSE trial

- Validate effectiveness and accuracy of configured “out of the box” Maximo HSE system and associated business processes
- Identify, assess and prioritise system/process enhancements
- Understand enhanced reporting requirements
- Validate user roles, access levels and licence requirements
- Develop training materials and processes in support of the full HSE roll-out
- Identify any significant risks/issues associated with the full HSE roll-out

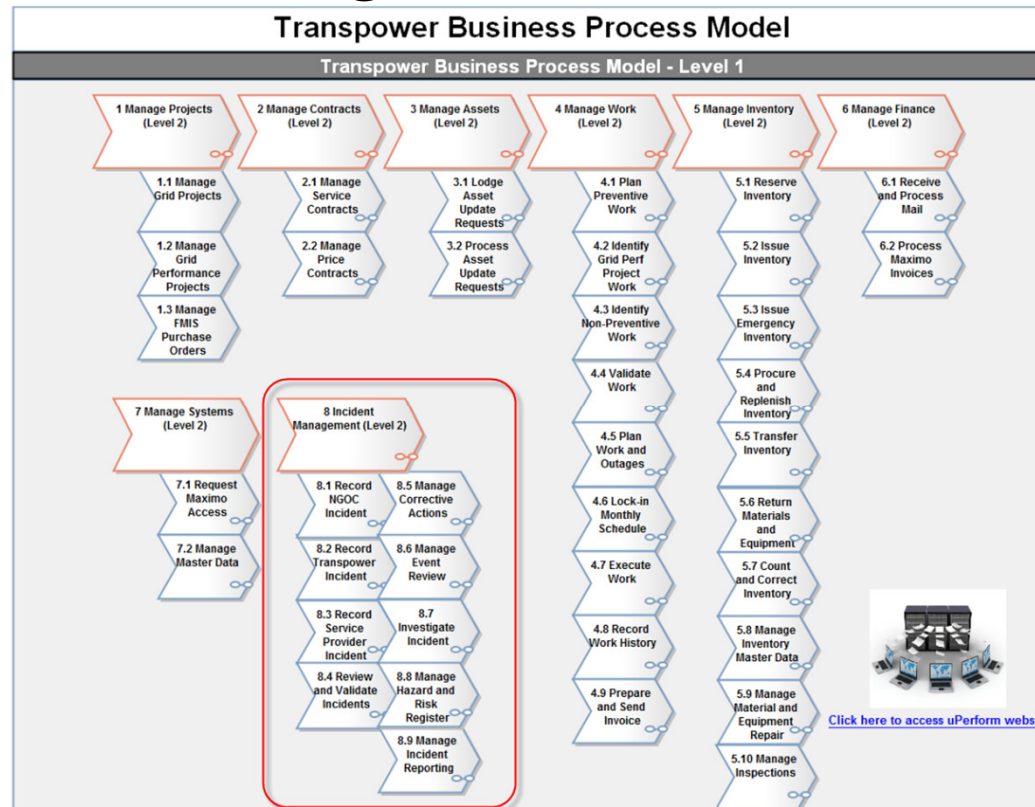


Implementation

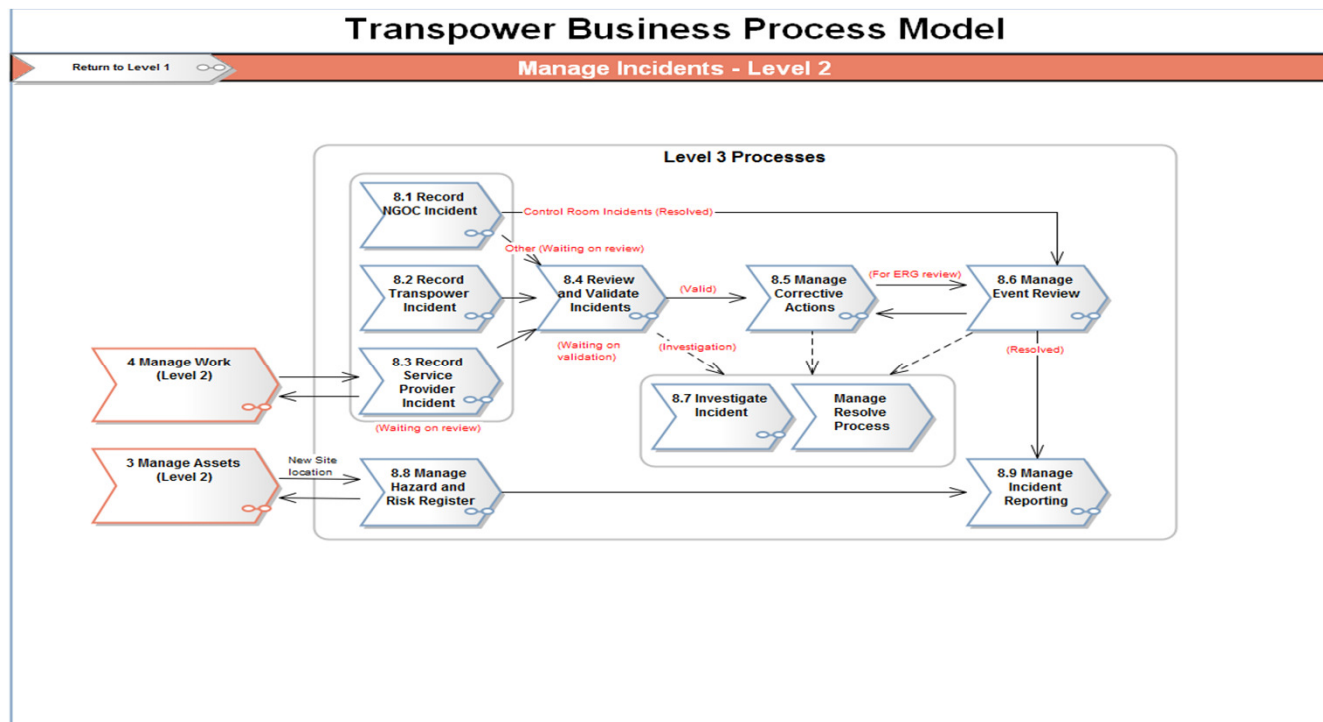
- HSE Trial implemented in February 2014
- Success of HSE Trial prompted management to proceed with full ICAR replacement (all incidents managed in Maximo)
 - control room, operations, equipment, environmental, security, property damage, safety
- Full incident management implemented June 2014
- 140 users entering and managing incidents



Incident Management in Business Model



Manage Incidents



Challenges

- Business change and training
 - New tools and processes take a toll on the business
- Hazard to asset associations
 - How to inform people of the hazards they might be exposed to
- Access to information
 - Maximo licencing is restrictive, and information isn't as available as before (though BI system will remedy this)



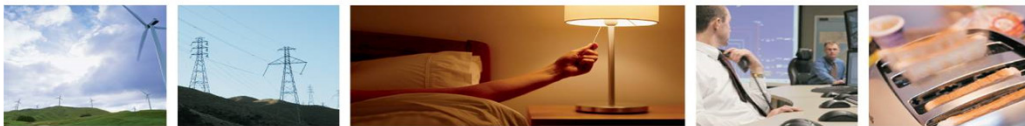
Where to from here

- Introduce Operator Logs so that incident recording and tracking launched in near real time
- Deliver targeted hazard and risk information to maintenance staff on their work orders
- Business Intelligence system to analyse incident trends and make information available



Questions?

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