# Our People: Strata Defects: Detailed Planning

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#### WHAT IS A STRATA DEFECT?

In the underground coal environment, a strata defect is defined as failed Roof or Rib, or damaged support (ie. wall) due to:-

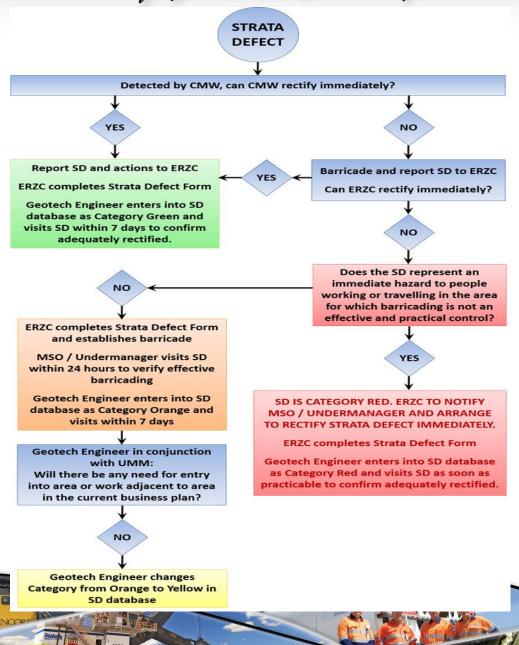
- Strata weathering (ie. coal beginning to crumble, etc),
- Corroded support (ie. mesh and/or bolts)
- Missing Bolt from the Support Pattern; or
- Machine damage.

It is imperative that Strata Defects are Identified, Barricaded and Reported as soon as possible.







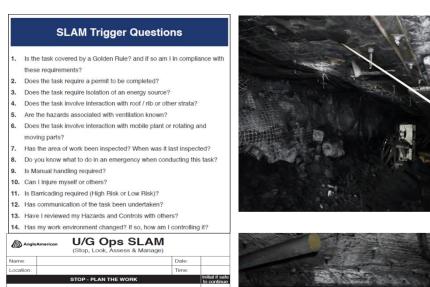




# TRAINING IDENTIFICATION, BARRICADING & REPORTING

#### **CMW RESPONSIBILITIES**

- Every CMW must assess the roof, rib and support conditions in their SLAMs and/or JSAs
- Rectify Strata Defect if this can be done safely (e.g. barring rib with pinch bar)
- Otherwise effectively barricade Strata Defect immediately
- Report Strata Defect to workgroup supervisor and/or ERZC









# TRAINING IDENTIFICATION, BARRICADING & REPORTING

#### **ERZC RESPONSIBILITIES**

- Erect a suitable and effective barricade around any Strata Defect that cannot be rectified immediately
- Complete a Strata Defect Form for every Strata Defect and place top copy in MSO / Undermanager's Office
- If a Strata Defect is category RED then notify MSO / Undermanager and arrange to rectify Strata Defect immediately







#### WHY DESIGN AND IMPLEMENT THIS SYSTEM?

- Continuous Communication and Strata Defect Hazard Awareness to all Coal Mine Workers
- Stringent reporting, Strata Defect verification, Risk Ranking, Prioritisation for Remediation, Non-Conformance Escalation and Strata Defect Close Out.
- All Underground Operations to align with one System and Documentation Definitions;
   and
- Integration into Fewzion Planning System per MOS Task Close Out Requirements and Protocols



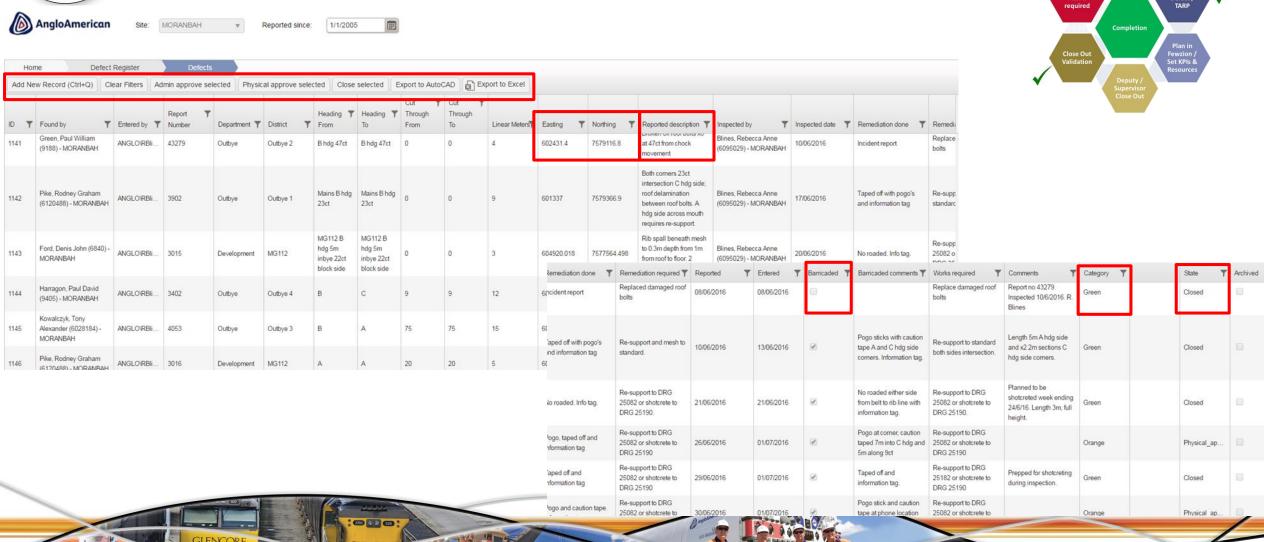


#### STRATA DEFECT FLOW – START TO FINISH!

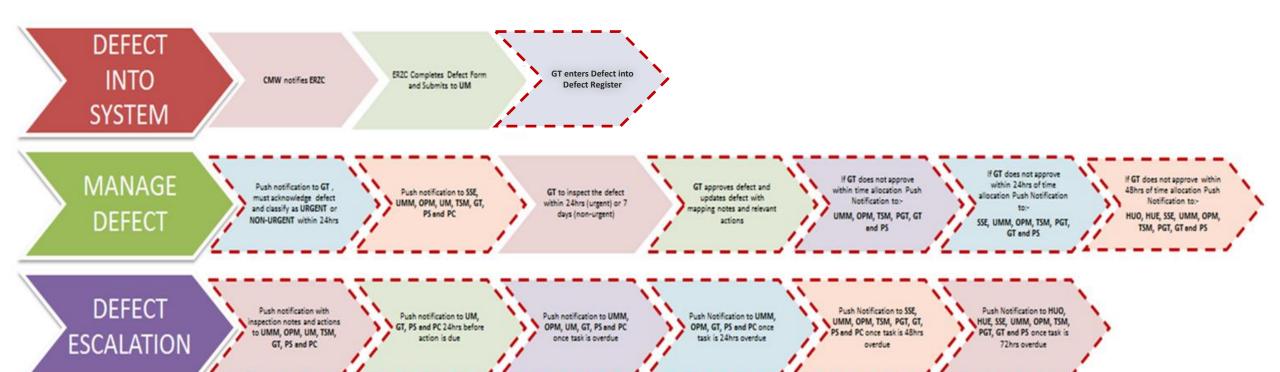




#### STRATA DEFECT DATABASE - SORD!



### STRATA DEFECT NOTIFICATIONS

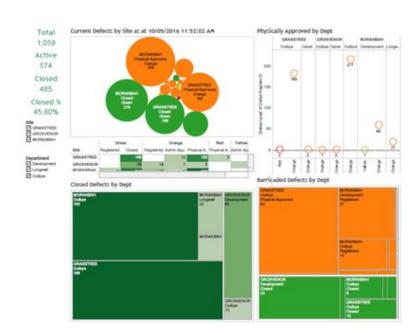






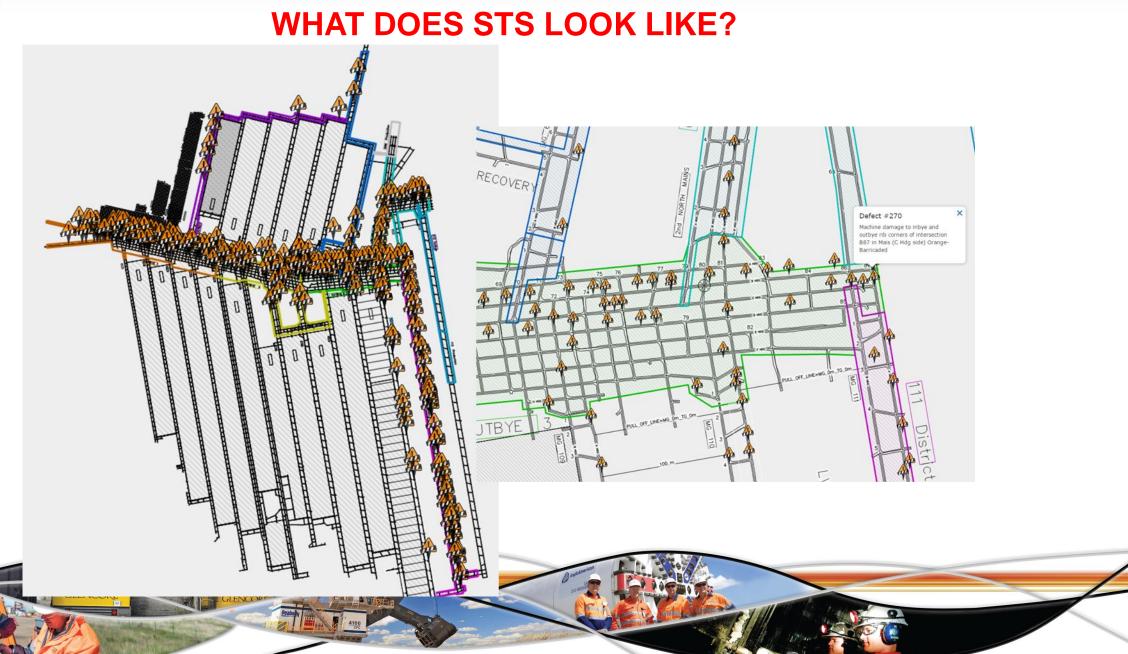
#### MINE MANAGER'S STRATA DEFECT MEETING

- Review of New, Open and Closed Planned Strata Defects
- Progress on Remediation Plan to Variance
- Upcoming Planned Remediation to Site Requirements
- Resourcing Options (both labour and materials)
- Live Reporting via Tableau



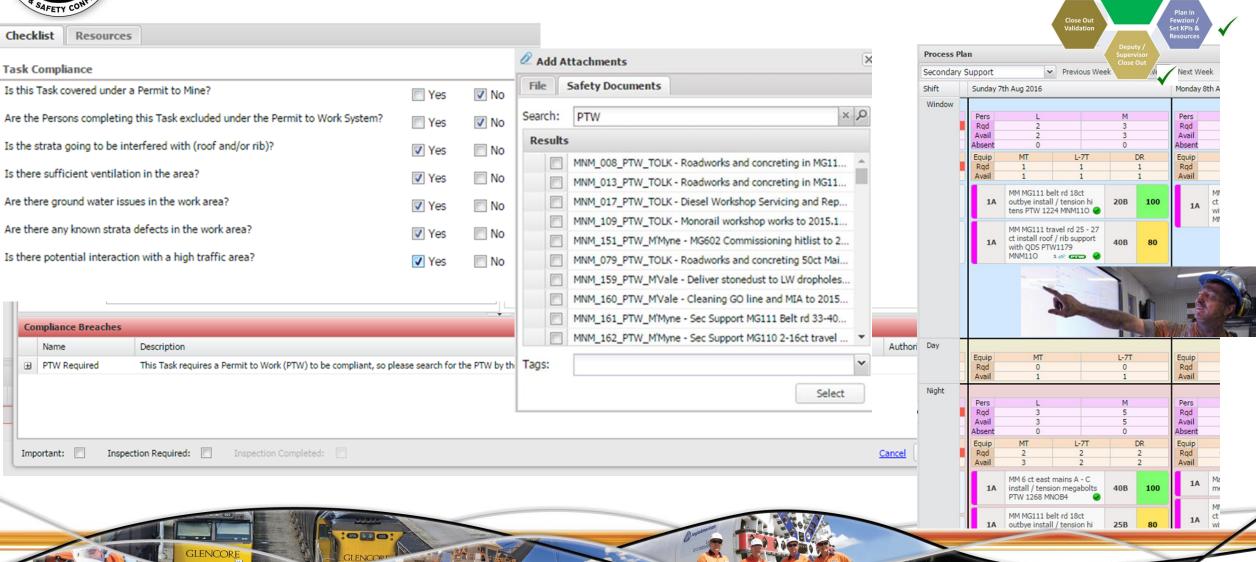








#### **DETAILED PLANNING!**





## STRATA DEFECT FLOW - GEOTECHNICAL SIGN OFF

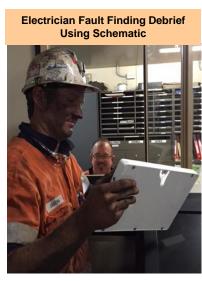


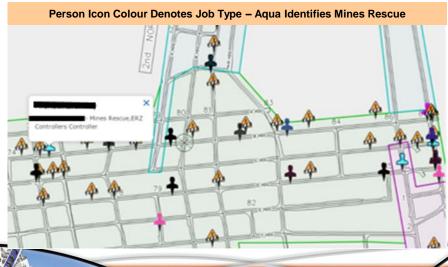




#### **FUTURE ENHANCEMENTS...**

- Other Hazards Identified (ie. ventilation quantities, gas makes, telltale movement, etc)
- Short Interval Control, Modified Shift Plans, Live Reporting, etc via IS Certified Tablet
- Geospatial Planning with Proximity Detection
- Emergency Response People & Equipment Locations (currently being trialled at Moranbah North Mine)







# THANK YOU!

