Tracking the key changes in the mining value chain

Key changes at each stage of the mining value chain require tracking with a focus on reconciliation to ensure accuracy, minimise losses, and maximise recovery.

Factors influencing each stage of the mining value chain

- Economic viability
- **Mining constraints**
- **Dilution estimates**
- Ore recovery adjustments
- **Cut-off grade application**
- **Metal price sensitivities**
- Ore-waste differentiation
- **Blasting adjustments**
- Short-term plan execution
- **Grade variability management**
- Production tracking
- Timely reconciliation against mining model
- Weightometer calibration (Loader, truck, crusher, plant)
- **Moisture content variability**
- **Density inaccuracies**
- **Crusher efficiency**
- **Metallurgical recovery**
- Losses to tailings
- Grade upgrading (Concentration)
- Moisture removal (Drying or filtering)
- Product sampling & assaying



RESOURCE MODEL



RECONCILOR



TO MONITOR TRANSITIONS

TRANSITIONS TO MONITOR

TO MONITOR **TRANSITIONS** **RESERVE** MODEL



MINING MODEL



KEY TRANSITIONS TO MONITOR

Increased data from drilling

- Ore-waste boundary refinement
- **Updated cut-off grades**
- Mine plan refinement
- **Dilution & recovery factors**
- **Reconciliation of models**





DELIVERED



Material blending

- Stockpile management
- Ore loss and dilution
- Plant feed optimisation
- **Density & moisture**
- Wet / dry tonnes tracking

Material segregation



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CRUSHER RECEIVED



IRANSITIONS TO MONITOR

Stockpiling

- **Moisture content changes**
- **Blending**
- **Feed rate control**
- Fine material loss (Fines or dust)



PLANT

FEED

DATAMINE **GROUP**

SNÔWDEN Optiro