EO & Data Fusion Across the Mining Lifecycle

Queensland Earth Observation Hub

Photo: San Cristobel Mine, Bolivia (Ultradistancia)

Introduction

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Mining Lifecycle



Changes of ownership = loss of knowledge

Siloed Contracting / Ownership / Government = loss of knowledge

Changing owners, management teams, markets, regulations, societal expectations

Same orebody, ground, environment*, community*

Lifecycle Focus



 Fusion with geophys (EM, VTEM, Gravity etc), downhole data, soils, GIS/maps

spectral







- Design terrain Progress, esp linear/ earthworks • Monitoring vs plans (mine, enviro) • Community engagement
- Fusion with local sensors, plans/3d designs



LIDAR, GIS,

Real Time

Location



 Fusion with IOT/ subsurface. Community portals, Gov databases

• Long term remote monitoring Vegetation • Water

Rob Foster - Fetch Metals

Problem/Opportunity Focus



