

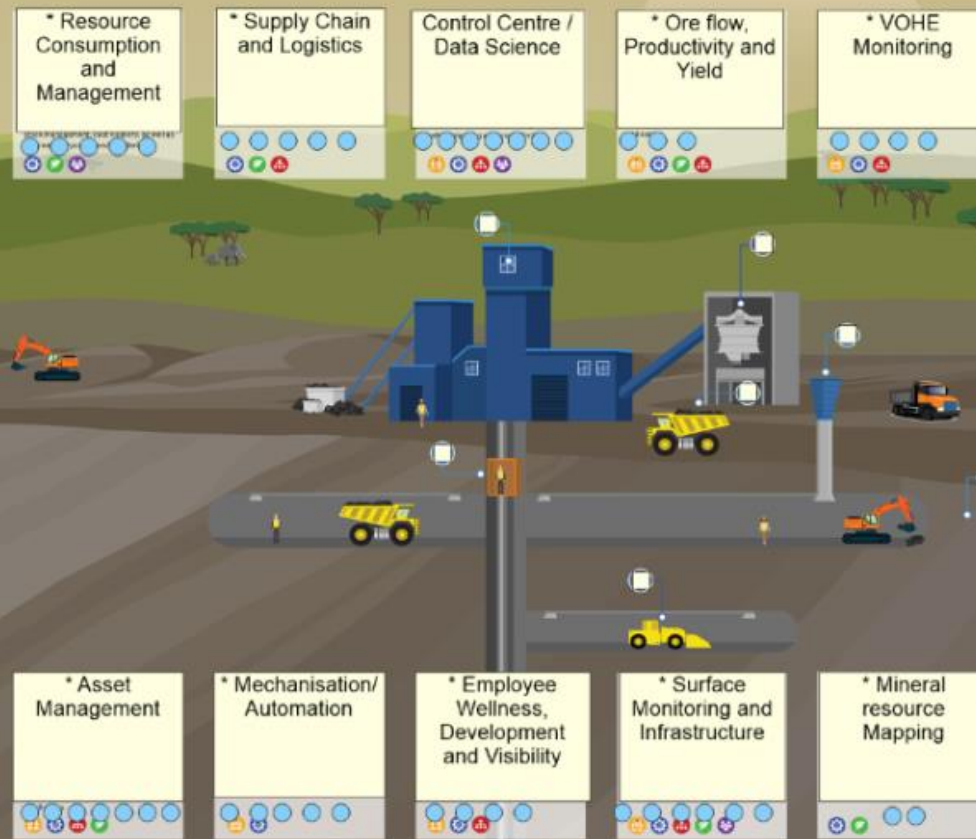
Real Time Information Management System (RTIMS) Value Driver Map

Enhancing South African Hard Rock Underground Mining through the power of Digital Transformation.

Levers

 Safety  Productivity  Governance  Environment  Socio Tech

RTIMS Value Drivers



Technical Detail:

The Digital Twin Business Case Validation Tool is an Excel-based framework. It evaluates digital initiatives based on MMP-mandated criteria such as interoperability, rapid deployment, local manufacturing, and real-time capability. The tool is tailored for hard rock, underground mining environments targeting platinum and gold, and accommodates various mining methods. It assesses initiatives across four focus areas: safety performance, cost optimization, socio-techno contribution, and environmental responsibility. With capabilities for both initiative-level and portfolio-level analysis covering financial metrics like NPV and IRR, as well as qualitative assessments the tool enables comprehensive, real-time validation and prioritization of digital transformation efforts.

Benefit:

The Digital Twin Business Case Validation Tool empowers mining organizations to make data-driven, strategic decisions by providing a comprehensive framework for evaluating digital transformation initiatives. By integrating both financial (e.g., NPV, IRR, Capex/Opex) and non-financial (e.g., risk exposure, value-add) metrics at both initiative and portfolio levels, the tool enhances prioritization, optimizes resource allocation, and supports executive-level decision-making. Its flexible, Excel-based design ensures real-time analysis and adaptability, paving the way for scalable, site-specific implementation and continuous value tracking.

