



DRIVEN BY DATA

SmartMine: 4 week PoC consulting offer

ESTIMATED COST // \$50K

INDUSTRY FOCUS AREAS // Mining, Energy & Natural Resources

SmartMine is a data maturity and analytics acceleration platform driven from our decades of experience in supporting the mine analytics needs of our clients located all over the World. It is an analytics accelerator born from mine operations, for mine operations, that advances the data maturity and operational insights of miners.

WHAT IS THE VALUE?

The SmartMine Proof-of-Concept (PoC) is a pilot analytics project designed specifically with the industry focus of Mining and Natural Resource. The end-to-end Modern Data Platform, SmartMine leverages the full power of the Azure suite of services including Synapse, Purview, and Power BI. The PoC is designed to show you how your most valuable resource — your data — can be turned into meaningful, interactive insights, in just a matter of weeks.

HOW DOES IT WORK?

SmartMine contains ready-made connectors to accelerate connecting to most of the common Mine Operations, Plant Operations, Health & Safety, HR, and Finance systems found in the mining industry. It consists of a mining operations data model that provides a 360 degree view of the operations contained within a flexible data lake repository. Insights are delivered through a collection of Operational Reporting, Management Reporting, and Executive Dashboards powered by Power BI. A library of predictive analytics models has been assembled to support predictive maintenance, plant optimization, recovery optimization, and proactive safety management scenarios. In addition, SmartMine embraces the principles of Industry 4.0 in establishing a framework for creating digital twins and simulation models.

LIXAR FUELED BY BDO'S MODERN ANALYTICS PLATFORM ACCELERATES THE JOURNEY TOWARDS TRUSTED INSIGHTS & AI

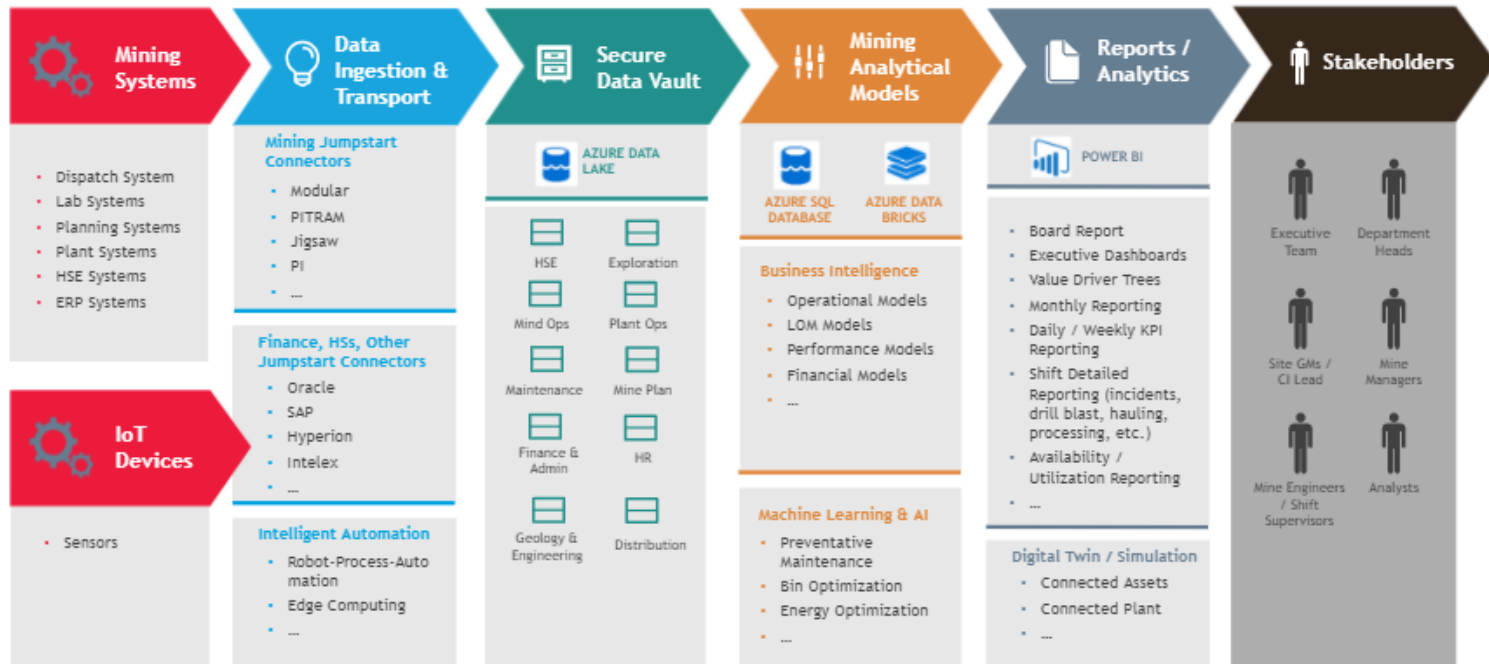


Our data experts offer accelerated technical advisory, assessing your environment and existing infrastructure to better understand the most effective way to modernize your Mining data to help you meet your targeted business needs and case studies. We will establish areas of focus within those business case studies, and design a roadmap based on your customized priorities that includes a data foundation, security, analytics, and data governance. In just 4 weeks, you will have access to engaging data visualizations that offer deep and focused industry specific insights at a glance, with an optional Purview setup.

DELIVERABLES

1. Accelerated Technical Analysis & Advisory
2. SmartMine azure services deployed in Modern, Cloud-Based Architecture
3. Industry Specific Power BI Data Visualization Dashboard
4. Presentation for Phase 2 Roadmap

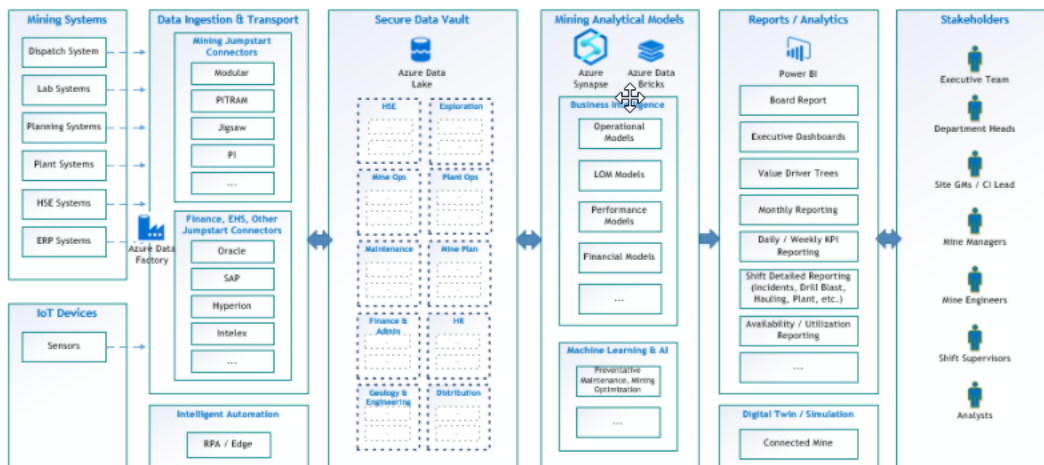
ARCHITECTURE



The following reference architecture is recommended:

- Get all data into the Raw Zone of the Data Lake “As Is” in an organized manner
- Determine which models are required for data-driven decisions and iteratively build models and dashboards
- Start exploring advanced analytics with Machine Learning in high-value workload

SMARTMINE LEVERAGES THE BEST OF AZURE



Latest Generation Analytics:

1. Data ingestion and storage within Azure Data Factory and Azure Data Lake.
2. Advanced analytics data science environment powered by Data Bricks.
3. Rich visualization delivered via Power BI.
4. Scale naturally into Synapse ready platform.