

# IDC Energy Insights: Agile Mining Operations

## Strategic Priorities

## PROGRAMS

## USE CASES

Digital Exploration



Drilling Optimization

Insight Guided Drilling

Geological Digitization Platform

Ore Search Optimization

Virtual Geophysics

Drone-Based Exploration

Ore Intelligence

Rapid Ore Insight

Greenfield Mine Viability

Remote Control Exploration

Connected Assets



Smart Assets

Self-Healing Assets

Asset Instrumentation

Equipment Health Communication

Strategic Asset Management

Mine Process Insight

Augmented Maintenance

Predictive Analytics

Digital Inspection

Coordinated Maintenance

APM

Asset Tracking

Integrated Asset-Centric Maintenance

Agile Integrated Operations



Resilient Operations

Ore Grade Optimization

Resource Management

Operational Decision Support

Lean Mining Execution

Integrated/Collaborative Operations

Operational Ecosystems

Collaborative & Autonomous Operations

Digital Twin

Autonomous Mining

Digital Native Designed Mine

Smart Processing

Predictive Ore Optimization

Digital Blending

Smart Processing Insights

Integrated Ore Recovery

Digital Supply Chain

Autonomous Stockpile Management

Pit-to-Port Optimization

Supply Chain Automation

Global Trade Automation

Mine to Demand

Next-Gen Safety and Sustainability



Enhanced Personal Safety

Connected Safety Wear

Virtual Presence

Augmented Training

Robotic Mine Safety

Geo Spatial Safety

Process Safety

Process Condition Monitoring

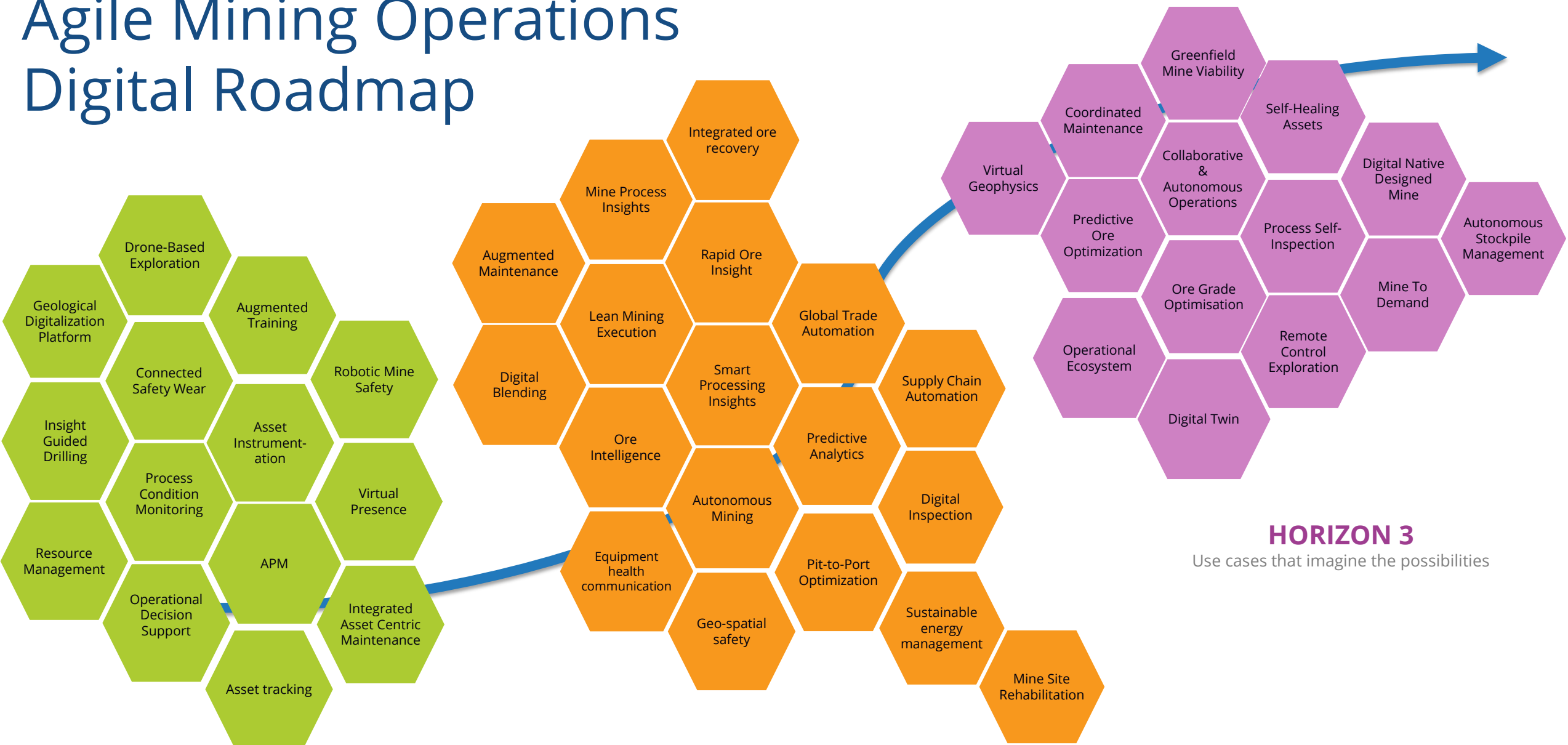
Process Self Inspection

Environment and Sustainability

Sustainable Energy Management

Mine Site Rehabilitation

# Agile Mining Operations Digital Roadmap



## HORIZON 1

Use cases that are deployed today

## HORIZON 2

Use cases that are being incubated

## HORIZON 3

Use cases that imagine the possibilities

# Digitally Transforming the Enterprise Industry by Industry



## IDC Energy Insights

- Agile Energy
- Agile Mining
- Energy-as-a-Service

## IDC Financial Insights

- Capital Markets
- Connected Banking
- Contextual and Value Centric Insurance

## IDC Government Insights

- Effective National Government
- Smart Cities and Communities
- Transformative Academia

## IDC Health Insights

- Knowledge-Based Medicine
- Value-Based Health

## IDC Manufacturing Insights

- Collaborative Innovation (AOVC)
- Engaging Consumer Experience at Scale (BOVC)
- Creating Experience Ecosystems (EOVC)
- Technology-as-a-Service (TOVC)
- Transportation and Logistics

## IDC Retail Insights

- Experiential Hospitality, Dining & Travel
- Experiential Retail
- Media & Entertainment

## IDC Telecommunications Insights

- Communications Service-Enabled Connected Communities