

# IDC Energy Insights: Agile Mining Operations

## Strategic Priorities

## PROGRAMS

## USE CASES

Digital Exploration



Drilling Optimisation

Insight Guided Drilling

Geological Digitalisation Platform

Ore Search Optimisation

Virtual Geophysics

Drone-Based Exploration

Ore Intelligence

Rapid Ore Insight

Greenfield Mine Viability

Connected Assets



Smart Assets

Self-Healing Assets

Asset Instrumentation

Equipment Health Communication

Remote Control Exploration

Strategic Asset Management

Mine Process Insights

Augmented Maintenance

Predictive Analytics

Digital Inspection

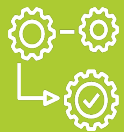
Coordinated Maintenance

Asset Performance Management

Asset Tracking

Integrated Asset-Centric Maintenance

Agile Integrated Operations



Resilient Operations

Ore Grade Optimisation

Resource Management

Operational Decision Support

Lean Mine Execution

Organisational Structure and Agility

Integrated/Collaborative Operations

Operational Ecosystem

Collaborative & Autonomous Operations

Digital Twin

Autonomous Mining

Digital Native Designed Mine

Smart Processing

Predictive Ore Optimisation

Digital Blending

Smart Processing Insight

Integrated Ore Recovery

Collaborative Development

Digital Supply Chain

Autonomous Stockpile Management

Pit-to-Port Optimisation

Supply Chain Automation

Global Trade Automation

Mine to Demand

Customer Collaboration

Customised Products

Digital Service Platform

Vendor Engagement

Inventory Intelligence

Next-Gen Safety and Sustainability



Process Safety

Process Condition Monitoring

Process Self Inspection

Enhanced Personal Safety

Connected Safety Wear

Virtual Presence

Augmented Training

Robotic Mine Safety

Geo Spatial Safety

Environment & Sustainability

Sustainable Energy Management

Mine Site Rehabilitation

Tailings & Other Storage Facility Management

Environmental Resource Optimisation

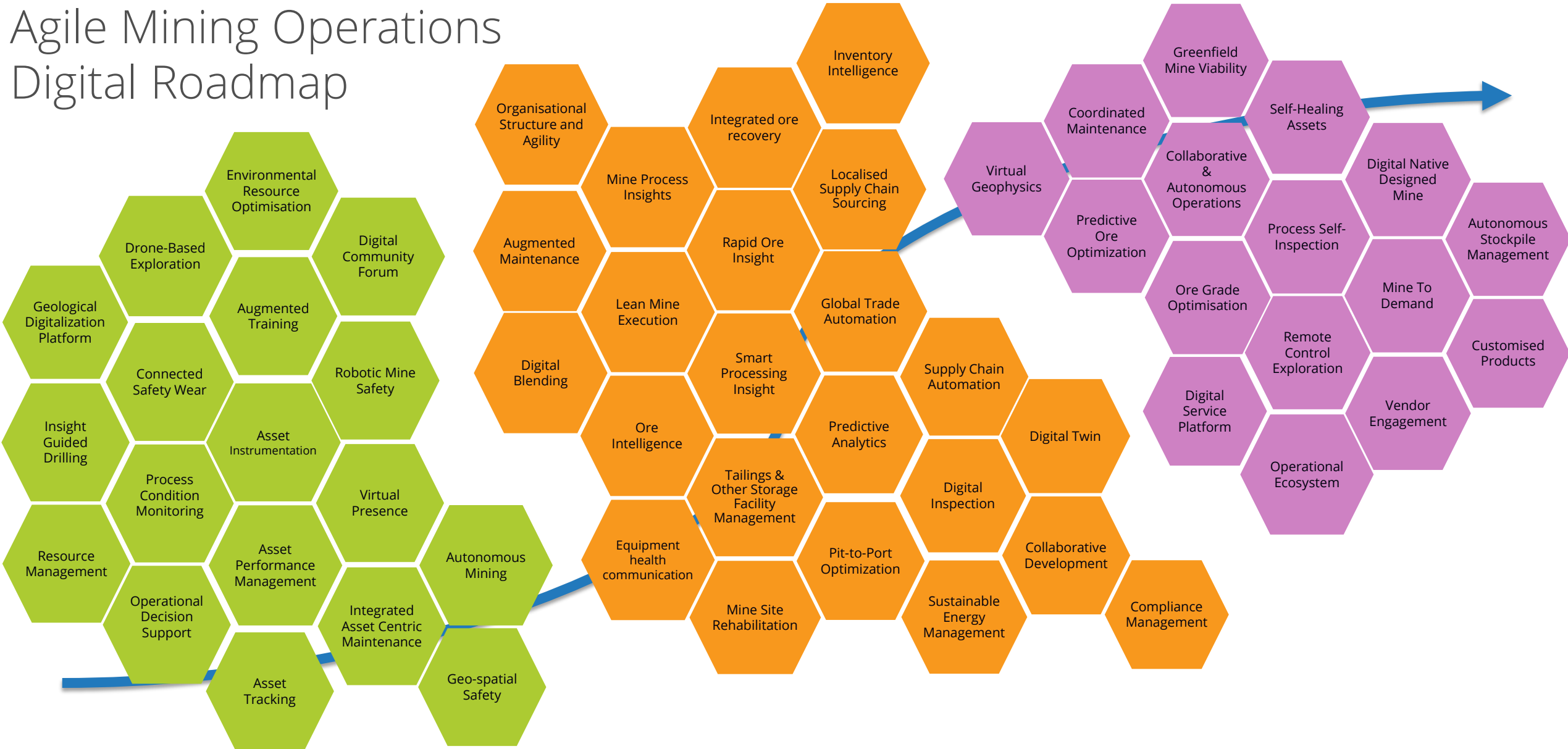
Compliance Management

Local Community Integration

Digital Community Forum

Localised Supply Chain Sourcing

# 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