

IDC Energy Insights: Agile Mining Operations

Strategic Priorities

PROGRAMS

USE CASES

Digital Exploration



Drilling Optimization

Insight Guided Drilling

Geological Digitalisation 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

Collaborative Development

Digital Supply Chain

Autonomous Stockpile Management

Pit-to-Port Optimisation

Supply Chain Automation

Global Trade Automation

Mine to Demand

Next-Gen Safety and Sustainability



Process Safety

Process Condition Monitoring

Process Self Inspection

Vendor Engagement

Inventory Intelligence

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

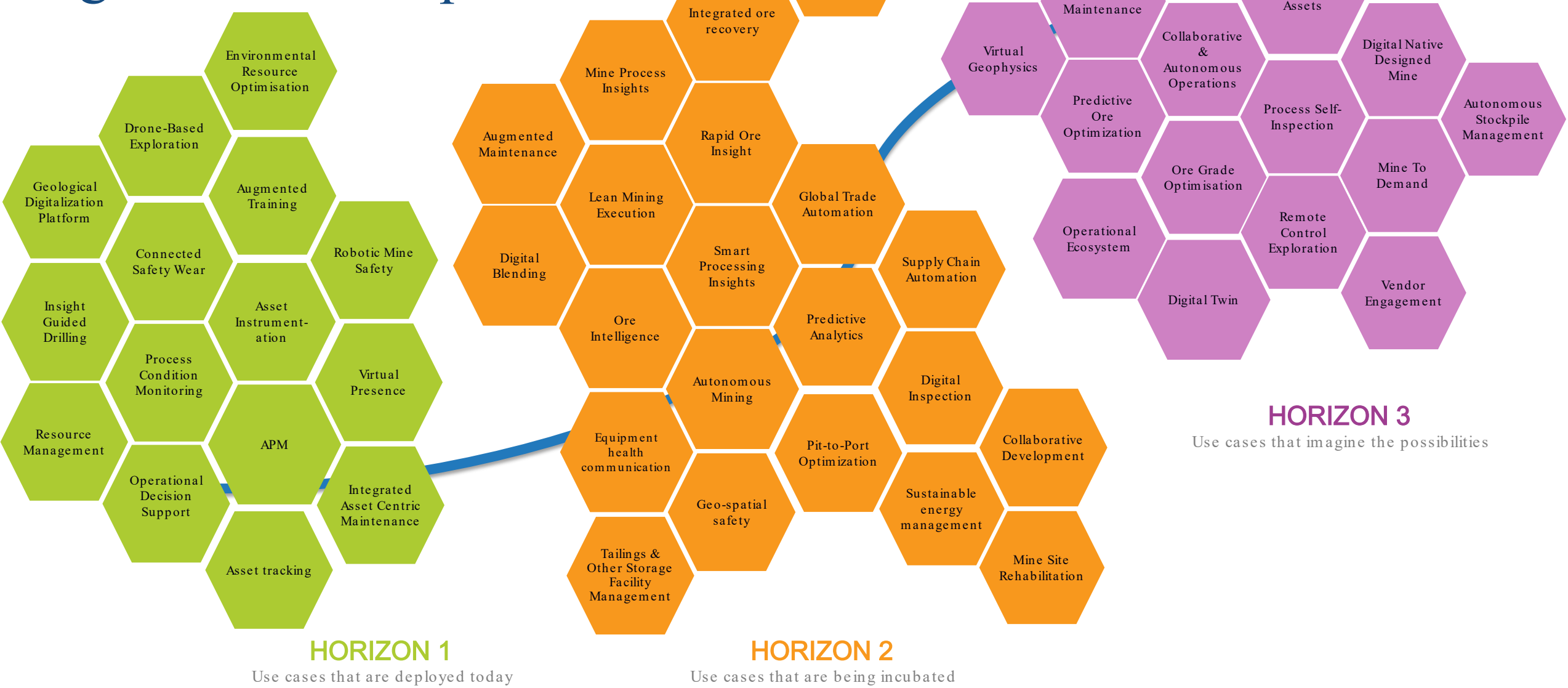
Environmental Resource Optimisation

Building Your Industry -Specific Digital Roadmap

Identify your baseline state and define what it will take to evolve your organization to the future digital state

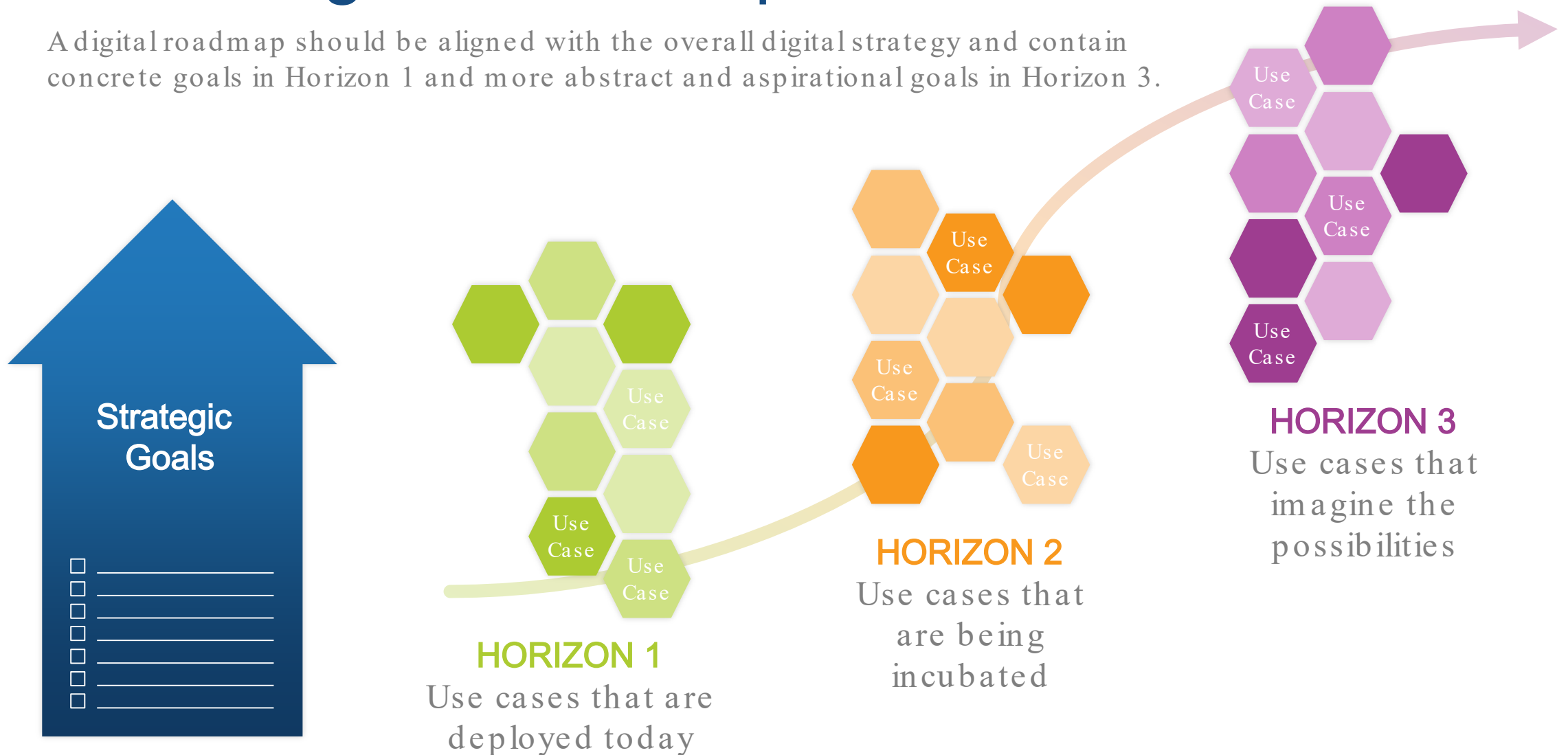
Factor in customer journey maps, capabilities and portfolio gaps as you establish your programs and use case

Agile Mining Operations Digital Roadmap



Break Digital Roadmaps into Horizons

A digital roadmap should be aligned with the overall digital strategy and contain concrete goals in Horizon 1 and more abstract and aspirational goals in Horizon 3.



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