



Automation of Mining Equipment

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The Autonomous Journey at NGM

Open Pit

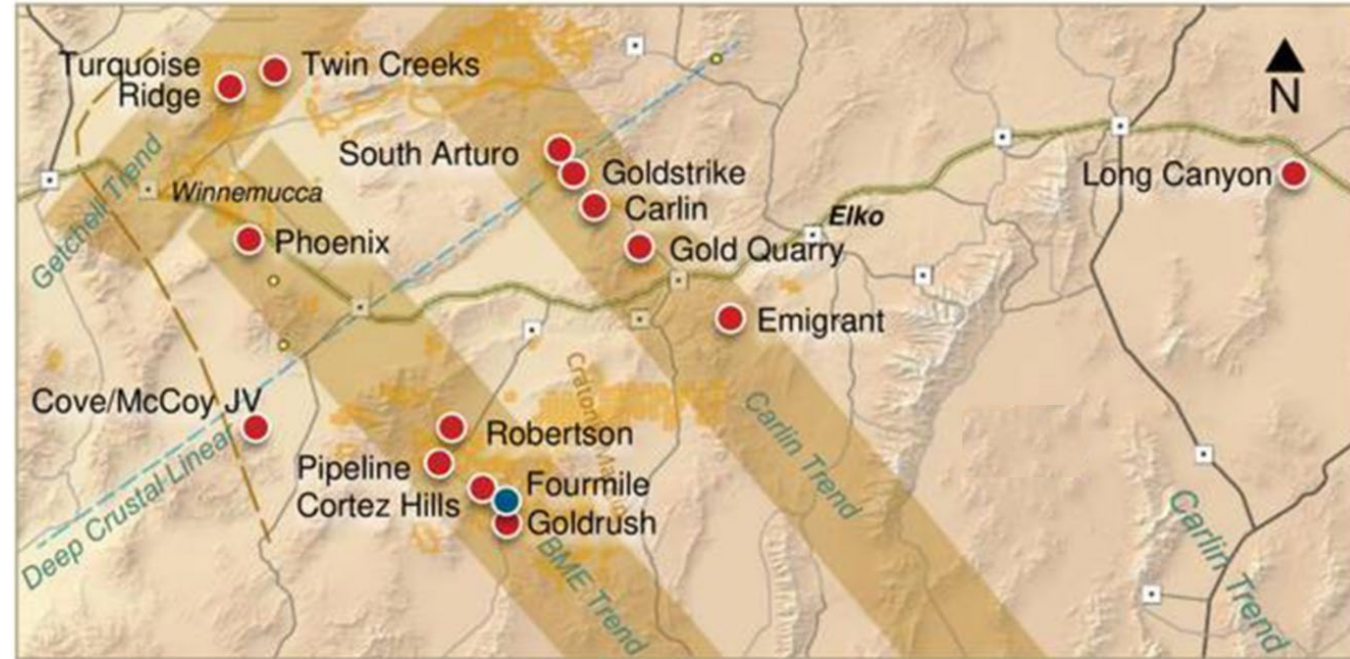
- Drilling
- Hauling

Underground

- Drilling
- Loading
- Hauling

Processing Plants

- Mills
- Plants
- Remote Operations



1980's – 1990's
Fixed
Operations

2000's – 2010's
Tele-Remote
Operations

2010's
Autonomous
Operations

Autonomous Equipment

Why

- Safety; removing people from the hazards associated with operation of haulage equipment
- Labour; reduce utilization impacts to labour turnover across all equipment production equipment
- Production; increasing production averages and lowering costs

How

- Match current system functionality with improvement opportunities in the mine plan
- Work with OEM and non-OEM vendors to develop proper cost models that take into account evaluation periods, systemic and operational growth, and scalable plans

Automation at Nevada Gold Mines

- Multiple underground evaluation deployments
- Surface drilling OEM evaluation
- Non-OEM surface production haulage



Executing Autonomy

People

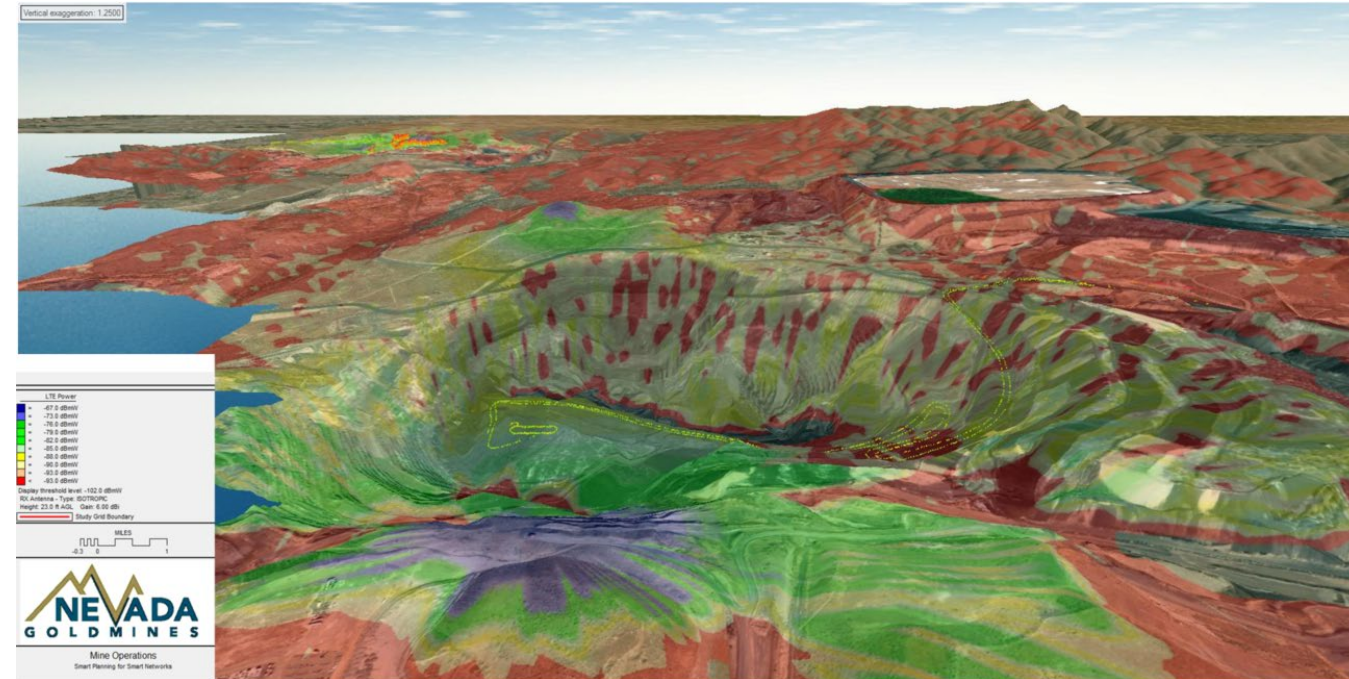
- Strategy and Vision
- Communication & Engagement Plan
- On-Going Communication and Project Evaluations
- Training and Evaluations

Processes

- Regulatory Statutes
- Operational Policies & Procedures
- Engineering Standards & Planning Processes
- Change Management

Technology

- Vendor Evaluation
- Communication Infrastructure
- Autonomous Safety & Control Systems
- Performance Management and KPI's



Modeled LTE Power Curves with User Equipment Latency Traces Overlay

Measuring Performance

Autonomous Availability

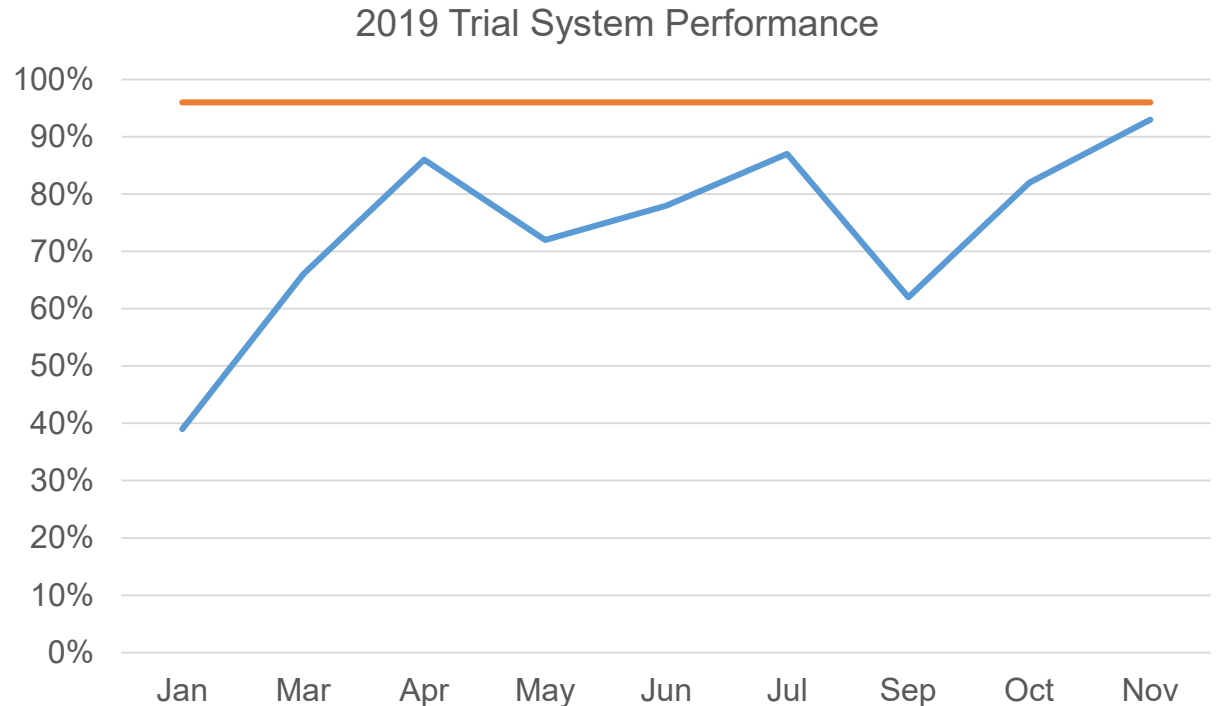
- Installation & Commissioning
- Control Testing
- On-Going Communication and Project Evaluations

Communications Availability

- Network and Last-Mile Communication
- Server Upgrade
- High – Availability

Production Utilization

- Don't stop the trucks!
- Hot change control room and loading equipment
- Maximize blast pattern size
- Standardize road design and manned interactions



2019 Autonomous System Performance, Months system not used omitted.

In Summary

- System and expectation alignment
- Employee engagement
- Measure positive engagement
- Planning and operation execution to plan are keys to productivity
- Wireless communications are no longer a “support” function



Autonomous Control Software Update Commissioning, Spring Conditions



Thank you!