Prescriptive Maintenance and Digitalization Deliver Big Benefits For Miners

Compliance, Flexibility, Sustainability and Asset Optimization top reasons for adopting new technology tools

Technology has many advantages, but improved safety is the top benefit

What are your top considerations when measuring the value of digitalization in your organization?

1. Safety
2. Exploration & mine development
3. Mine design & planning

Which of your organization’s objectives can benefit most from digitalization?

18% Health & safety
16% Ability to switch processes & quickly make changes to activities
12% Profitability & margin growth
10% Asset management & optimization
6% Integration of multivendor solution chains
Looking specifically at sustainability, what actions is your organization prioritizing?

- **Make More use of Alternative Fuel Sources Such as Wind, Solar or Hydrogen**: 40%
- **Mine Electrification**: 38%
- **Target Better Control Over Scope 3 Indirect Emissions**: 36%
- **Adopt Core Frameworks for Managing and Monitoring Progress**: 32%
- **Focus on Baseline Audits**: 26%

**How do you value sustainability in your role?**

- **Very Important**: 58%
- **Somewhat Important**: 42%

86% of respondents are measured on sustainability progress.
Tech Adoption Deterrents

ROI, Implementation and Change Management weigh down digitalization

What deters you from making more extensive use of technology within your organization?

**TOP 5 DETERRENTS**

1. Lack of certainty over return on investment
2. Vendor ability to support, maintain and deliver services
3. Implementation times
4. Ability or desire to manage & execute change
5. Too busy with other activities

Early Adopters

Data Science, AI and Analytics seen as being among technology's biggest benefits

Which technology tools are the most beneficial for your organization?

- **46%** Data science, analytics & dashboarding
- **40%** Tools for monitoring & managing sustainability efforts
- **40%** Mine planning & design tools
- **40%** AI & Machine Learning
Prescriptive Maintenance Making Its Presence Felt...

9 out of 10 say impact on asset management and downtime is significant

To what extent do you feel that prescriptive maintenance is having, or could have, on Asset Performance in Mining & Minerals?

- **46%** Highly significant impact
- **44%** Significant impact

How confident are you in the ability of prescriptive maintenance to minimize downtime?

- **50%** Very confident
- **38%** Somewhat confident
Where do you think prescriptive maintenance stands today in your sector in terms of maturity?

...but there’s more to come

Majority say prescriptive maintenance is still at early stages of market adoption

This infographic is based on an online survey conducted in June 2022 with 50 senior respondents from mining organizations.

To find out more, visit www.aspentech.com/mining