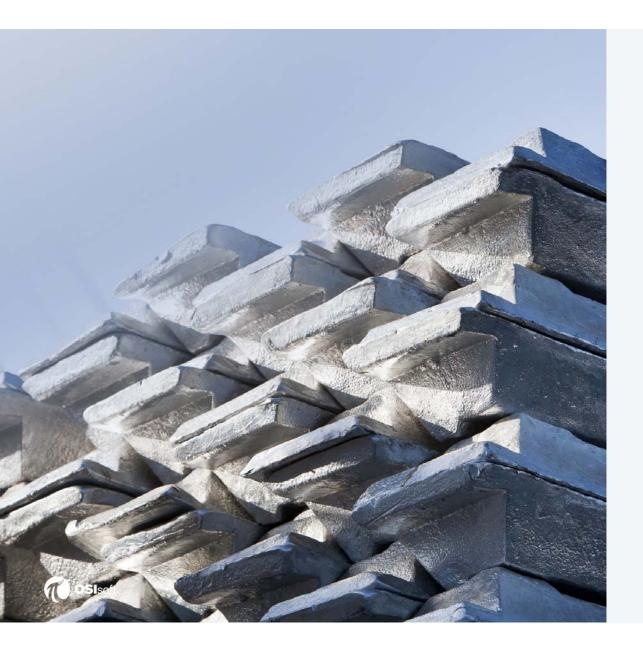
Virtual Industry Summit

IP Introduction

Martin Provencher Industry Principal October 2020







Agenda

- Introduction
- Norsk Hydro presentation
- Liberty Ostrava presentation
- Ma'aden presentation
- Digital Twins Discussion
- Conclusion

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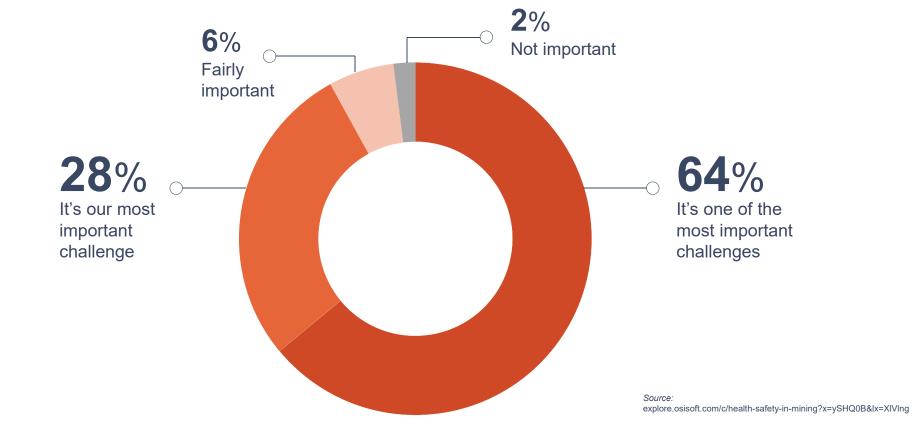


Introduction



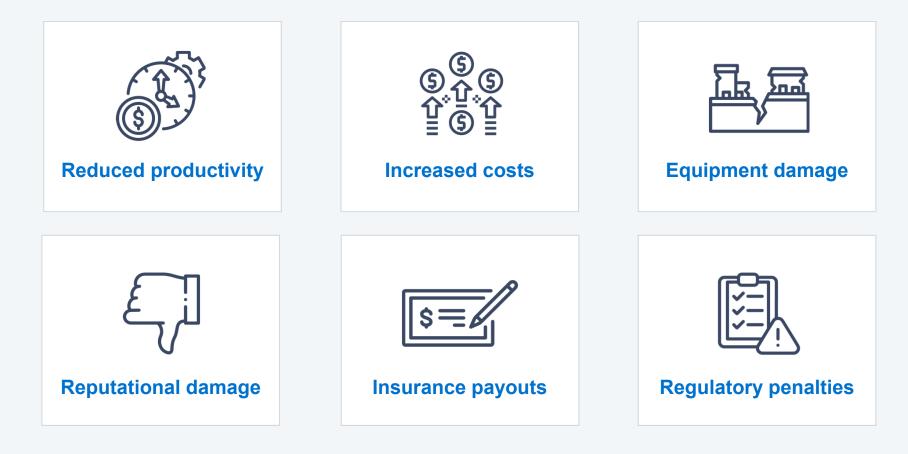
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Safety is one of mining's most critical challenges





Impacts of injuries go beyond people



OSIsoft.

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Cloud adoption increases

19% increase

Source:

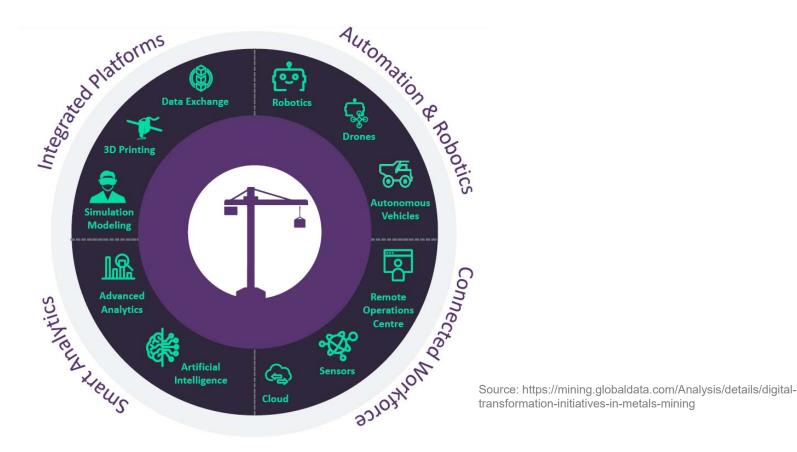
mining.globaldata.com/Analysis/details/thematic-research-covid19-impact-on-cloud-services



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Key Themes for the Digital Plant



7

\$2 billion Resources spend on Al by 2023

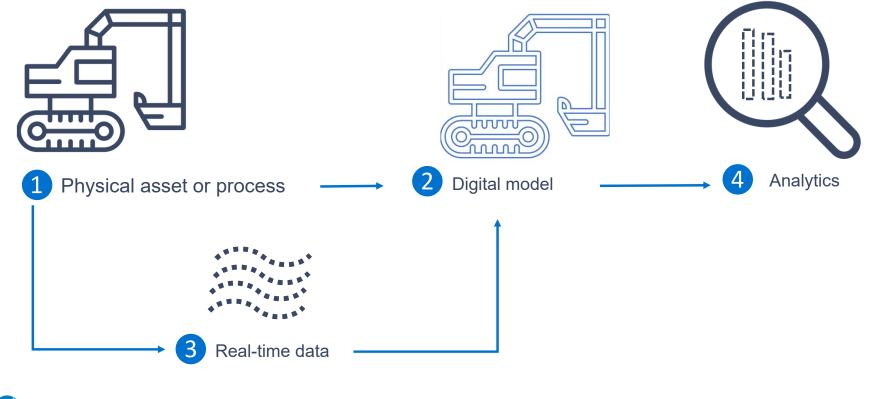
\$240 billion

Global spend on Al by 2024



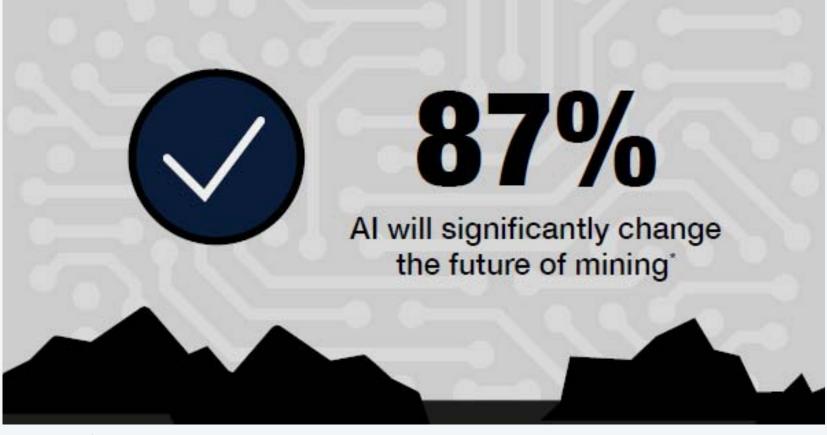


A digital foundation for digital twins





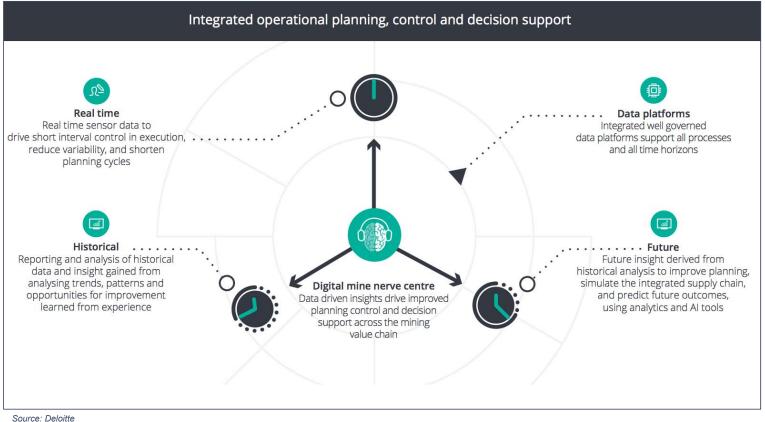
Al will change the industry



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Data in different time horizons

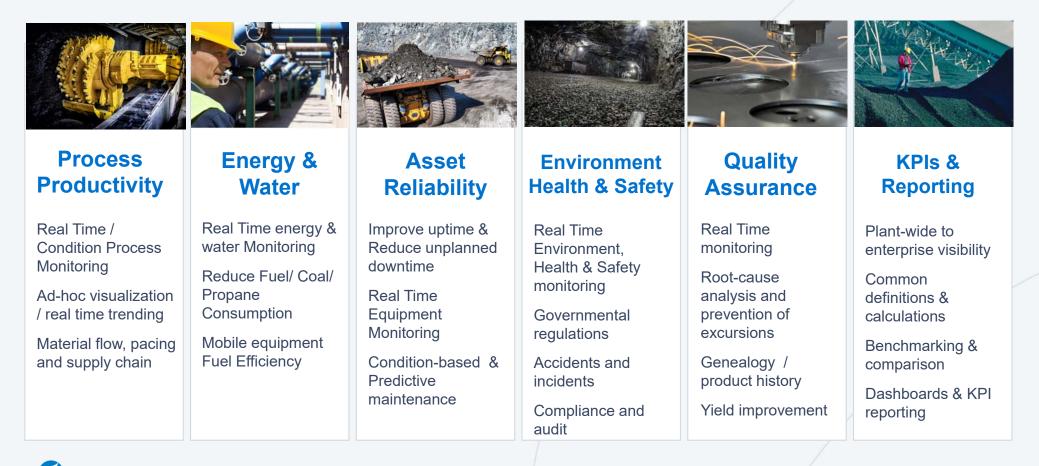


www2.deloitte.com/content/dam/Deloitte/mx/Documents/energy-resources/2018/Tracking-the-Trends-2018.pdf



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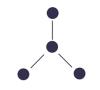
Where Mining, Metals & Materials Companies Find Value



Key takeaways



Digital transformation enables improvement





Different time horizons Past, present and future



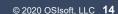


Thank you



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