



How to disrupt a 10 000 year old industry with sensors and data analytics

SANDVIK



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Hannover Messe 2019

“This is a time of great promise, and great peril. Leading companies even in the most traditional industries like Mining are setting clear priorities for their companies to address these challenges, and take advantage of the tremendous opportunity”

- Klaus Schwab - founder and executive chairman of the World Economic Forum

Daily amount of production Data from the
average factory

1 Terabyte

Already realized capabilities for our Mining client base utilizing the Cognitive Value Chain for Mining



Improving and creating Consistency of Plant operations

(Operational Efficiency and Production Optimisation)

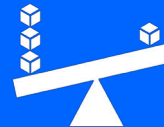


Unearthing high Quality deposits of Ore

(Cognitive Ore Body Discovery)

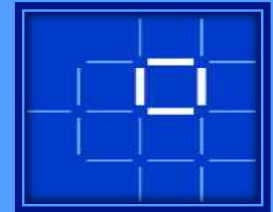


Securing effective Capital, Inventory and Asset Management

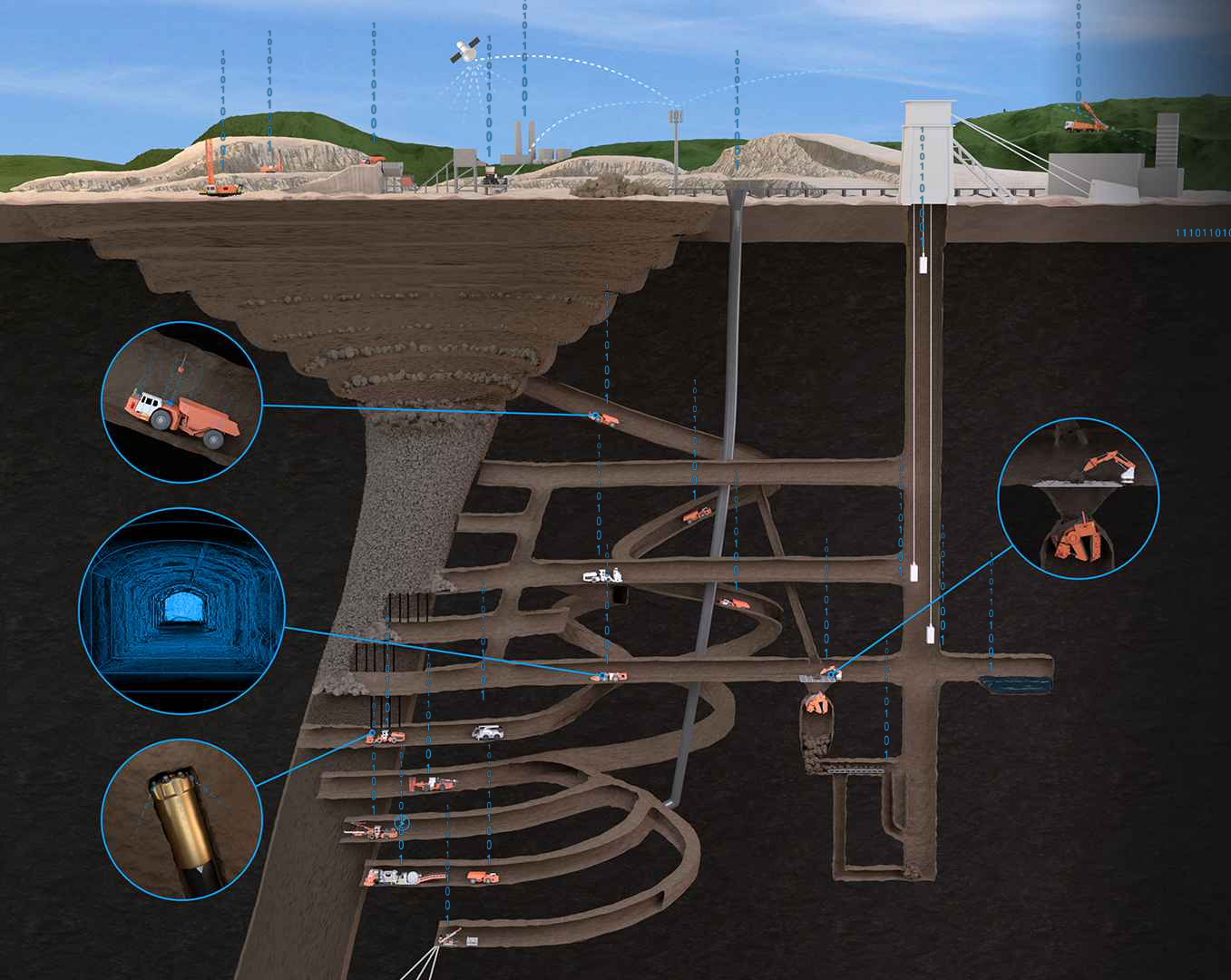


Driving sustainability and Supply Chain efficiency across Mining value chains

(Platforms and Blockchain)

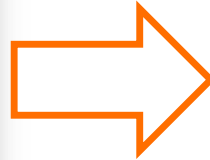






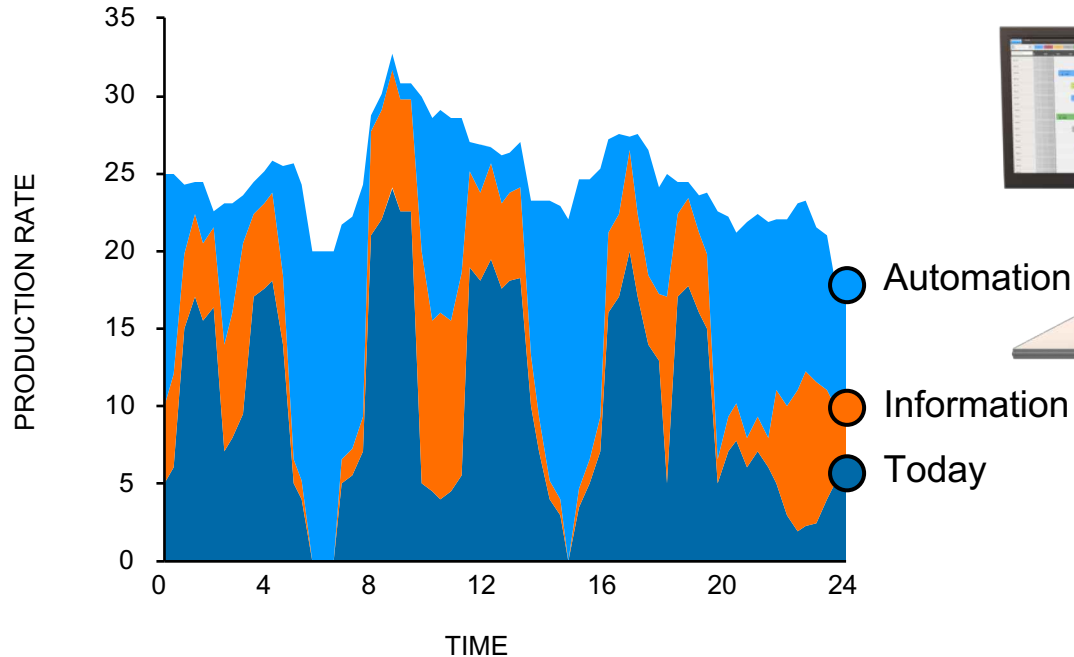
DIGITAL MINES

WHAT DO THEY DO DIFFERENTLY

[illegible]

MORE, LOWER-COST & SAFER TONNES

WITH INFORMATION AND AUTOMATION



ANALYTICS AND PROCESS OPTIMIZATION

TURN YOUR MINING DATA INTO ACTIONABLE KNOWLEDGE

Fully integrated with
customer digital ecosystem



Up to
60%

less
maintenance
downtime

1

IDENTIFY AREAS
OF IMPROVEMENT



Big data from Sandvik global
fleet and customer systems

2

PREDICT
WITH ACCURACY



Proprietary predictive models
for process optimization

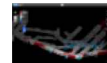
3

REALIZE VALUE
BY TAKING ACTION

Location
Tracking



3D Mine
Visualizer



Scheduling



Task
Management



Drill Plan
Visualizer



Optimization
Experts



OPTIMINE® ANALYTICS



Sandvik: Putting IoT to work for the manufacturing industry

<https://www.youtube.com/watch?v=mW0mL0QaMBQ>

To wrap it up



The Data

The Platforms

The Ecosystems & Partnerships

The Culture of Agile Innovation,
Enablement and Change

Trust & Security



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How to disrupt a 10 000 year old industry with sensors and data analytics

Let's put SMART to work!

See you in IBM booth Hall 7, C16

Thank you!



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