



Introduction to Mining, Materials and Supply Chain

Matt Miller and Martin Provencher



Agenda

- Introduction – Opening Comments
- Customer Presentations
- User Group Session
- Conclusion
- Industry Dinner

Platinum

Petuum 

Gold

SeeQ[®]

 TrendMiner
JOINT INNOVATION

UPTAKE

Silver

 DST
CONTROLS

NOKIA


OWL
Cyber Defense

radix
Engineering and Software

ROVISYS[®]
Automation & Information Solutions

 sartorius stedim
biotech
Umetrics[®] Suite of Data Analytics Solutions

Bronze

ADVANTECH
Enabling an Intelligent Planet

 ALKEMY
INNOVATION

 apporchid
- Enterprise AI -

CATERPILLAR[®]

 EFT ANALYTICS

ELEMENT

 IPCOS

 KBC
A Yokogawa Company

 ProcessPlugins[®]

PXiSE
Energy Solutions, LLC

 RA
Rockwell
Automation

 Toumetis

Transpara[™]
NOW YOU KNOW

 WATERFALL[®]
Stronger Than Firewalls

PARTNER & PRODUCT EXPO

Today's Expo Hours
10:00 AM – 7:00 PM
Golden Gate and Yosemite



Welcome to Mining, Materials & Supply Chain Track!

Today's Talks Confirm The Path

New Data Sets = Supply Chain 4.0

Continuous Improvements Are Driving More Value

Our Digital Journey Continues

Total Value Optimization

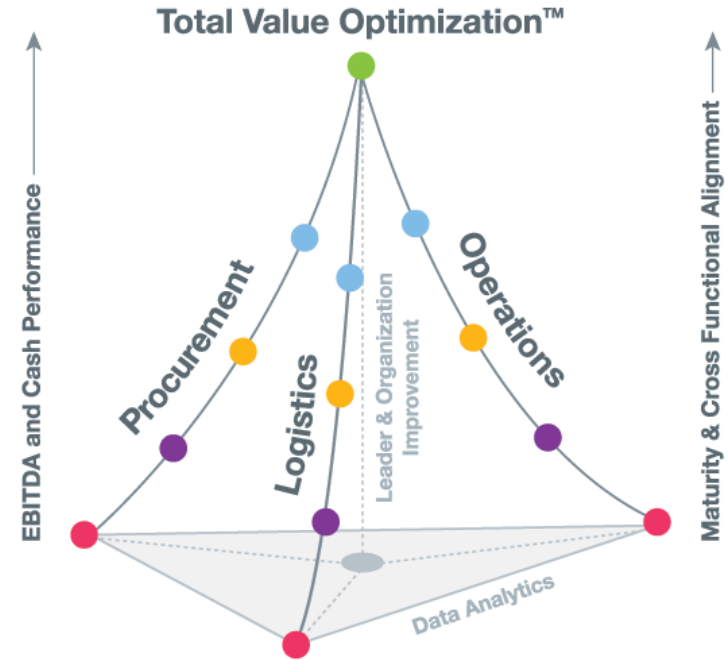
Digital Maturity Model

Lean Approach

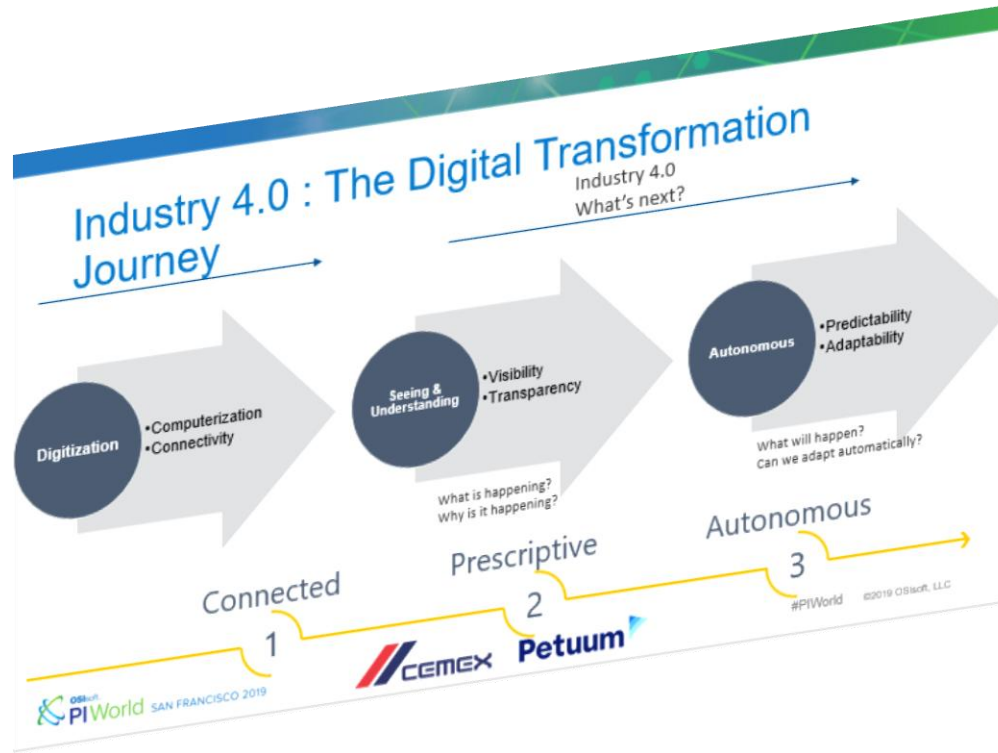
Value Focused

Free Copy @ UG Meeting!

TOTAL VALUE



Artificial Intelligence-enabled autonomous operations at CEMEX with Petuum Industrial AI Autopilot



Rodrigo Javier Quintero De la Garza
Cemex



Prabal Acharyya
Petuum

Barrick Gold Cortez Process Turns to Industrial IoT to Maximize Uptime of Its Critical Assets

Barrick Nevada Cortez Process

- Located 100 km southwest of Elko, Nevada, in Lander and Eureka counties
- Cortez Mining District mining since 1862
- Proven and probable gold reserves at Cortez at start of 2018 were **10 million ounces**



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Source: <http://www.mining.com/worlds-top-10-largest-gold-mining-companies-2017/>

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Deb Dewald

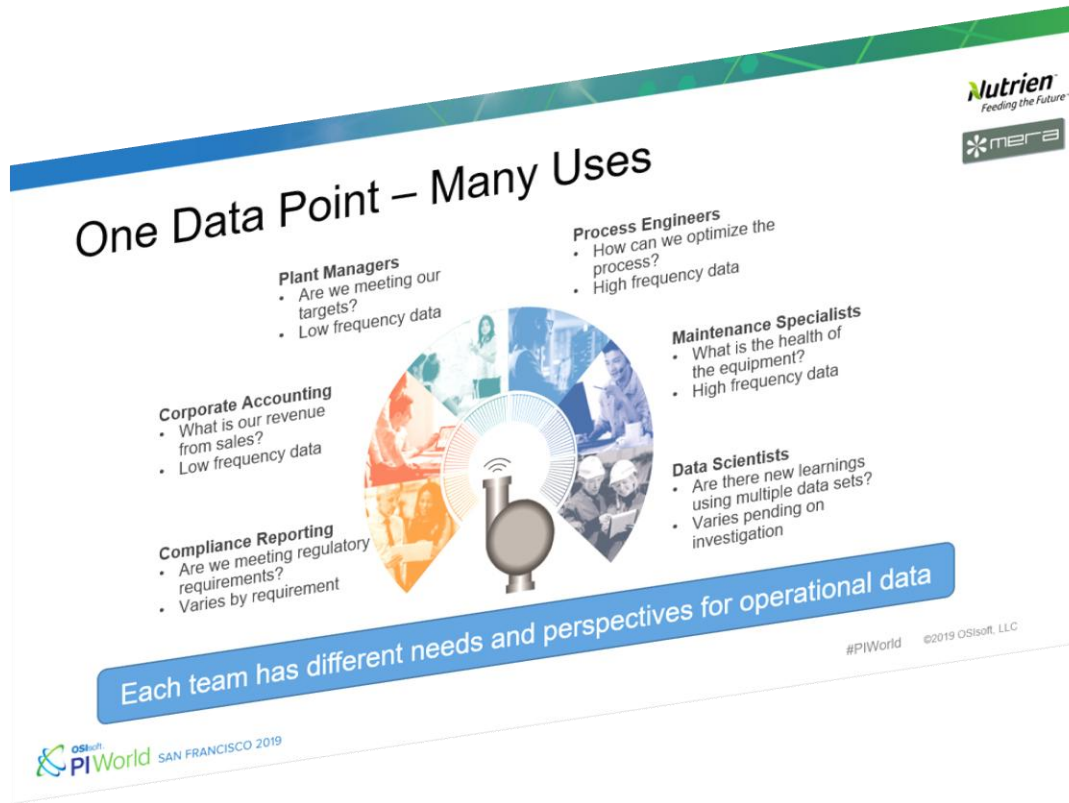
Software Systems Analyst
Barrick Cortez



Arun Santhebennur

COO
Petasense

Nutrien Powered by AF



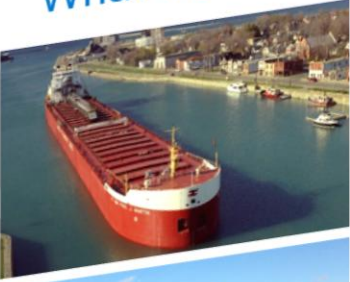
Bob McIntyre
Nutrien



Heather Quale
Mera

CSL's fleet management - a journey towards connected vessels for operational excellence & analytics

What we do at **CSL GROUP**



Canada Steamship Lines operates modern Self-Unloaders, Bulkcarriers, Transshippers and Cement carriers across the World. We provide customers with innovative high-capacity self unloading and transshipment solution.

The **size** and **flexibility** of our fleet guarantees a **safe reliable, efficient** and **cost-competitive** service to our customers.

The cargo we transport includes iron ore, coal, ilmenite, salt, slag, limestone, wheat, corn, soybean, canola, gypsum and cement in various forms

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Jean-Frederic Lavoie
CSL



Remi Duquette
Maya HTT Ltd

MobilARIS and PI Integration

BARRICK

- Gold mining business with operations and projects in 15 countries.
- Barrick Nevada is an integrated gold mining operation that combines the Cortez and Goldstrike properties in Nevada, employing a total of 3,000 employees and 800 contractors.



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John Wesley McGraw
Barrick



Lydia Sierra
Barrick

The PI system at the heart of a Mining Integrated Operations Center (ArcelorMittal)

AMEM and AMIC

- ArcelorMittal Exploitation minière Canada s.e.n.c. (AMEM) and ArcelorMittal Infrastructure Canada s.e.n.c. (AMIC) are two complementary companies operating on the north shore of the province of Québec (Canada).
- AMEM produces concentrate and iron oxide pellets for the steel industry. AMIC provides rail and port infrastructure to transport and ship its products to four continents.
- Both are part of the ArcelorMittal mining segment, the world's largest steel producer and among the 5 largest iron-ore producers worldwide.
- AMEM is one of the premier Canadian suppliers of iron-ore products destined for the national and world steel markets.



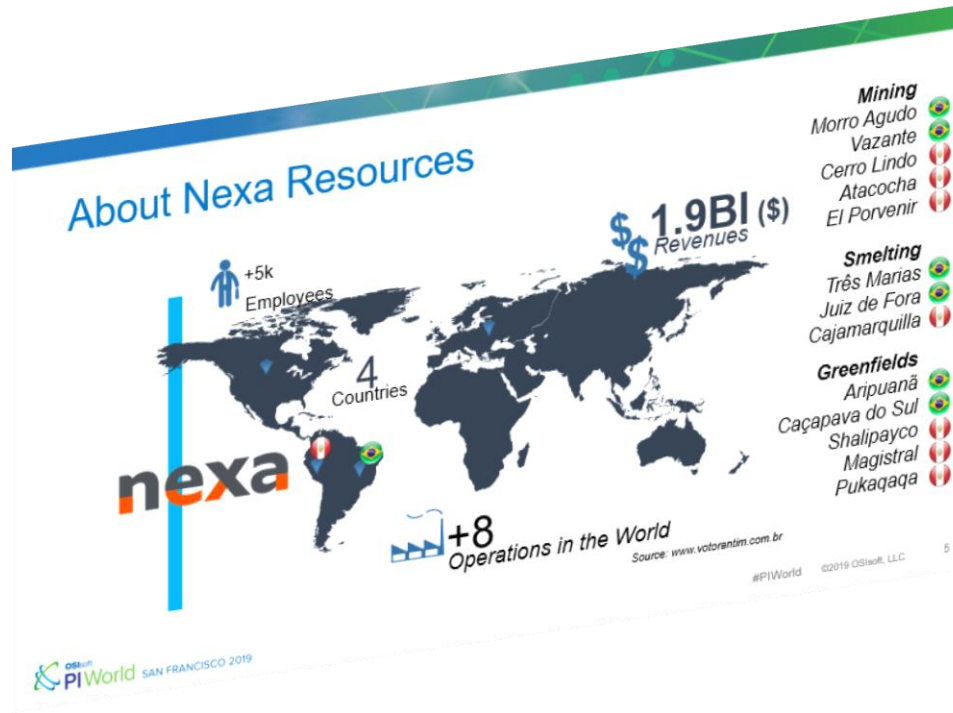
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Michel Plourde
ArcelorMittal Mines Canada

PI System as a foundation for the implementation of Industry 4.0

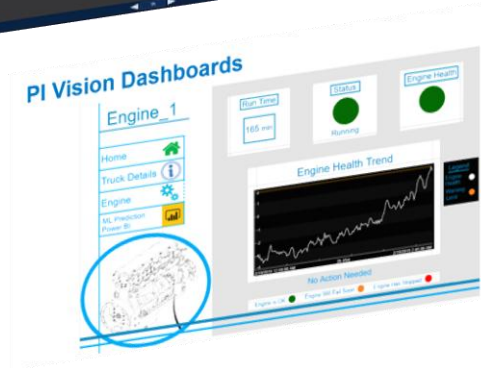


Patrick Gobetti
IT Manager
NEXA RESOURCES



Flávio Guimarães
Radix Eng.

User's group



The PI System in Product Genealogy and Machine Learning



François Pelletier-Bouchard
MMM Industry Champion, NAM

Mining Materials & Supply Chain Industry Dinner

Meet in lobby @ 7PM for ridesharing
Space is limited - Registration is Required!
Please let us know if your plans change

PRIVATE DINING

Questions?

Please wait for
the **microphone**

State your
name & company



Please remember

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