

## NOTICE

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# Forward Looking Statements

This presentation may include predictions, estimates, intentions, beliefs and other statements that are or may be construed as being forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could result in actual outcomes differing materially from those projected in these statements. No statement contained herein constitutes a commitment by AVEVA to perform any particular action or to deliver any particular product or product features. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation.

The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.



**AVEVA**WORLD  
SAN FRANCISCO 2022

**SPARK**YOURINGENUITY

WEDNESDAY NOVEMBER 16<sup>TH</sup> 2022

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# Mining & Metals

Welcome to Industry Day

Presented by: Martin Provencher, Global Industry Principal, Mining, Metals & Materials



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# Safety Share



# Trends and pressures in the Mining & Metals industry



Capital projects  
constraints

**\$70.4bn**

will be reached from  
mining capital expenditure  
across leading miners in  
2022<sup>1</sup>



Workforce  
disruption

**>50%**

improvement potential for  
mining personas when  
integrating and optimizing  
technologies and  
redesigning systems<sup>2</sup>



Demand shifts and  
market fluctuations

**82%**

of metal players see digital  
as top priority in their  
strategy<sup>3</sup>



Operational Risks and  
Pressure to Lower Costs

**16x**

more rock and energy are  
required to produce  
copper today than back in  
1900<sup>4</sup>



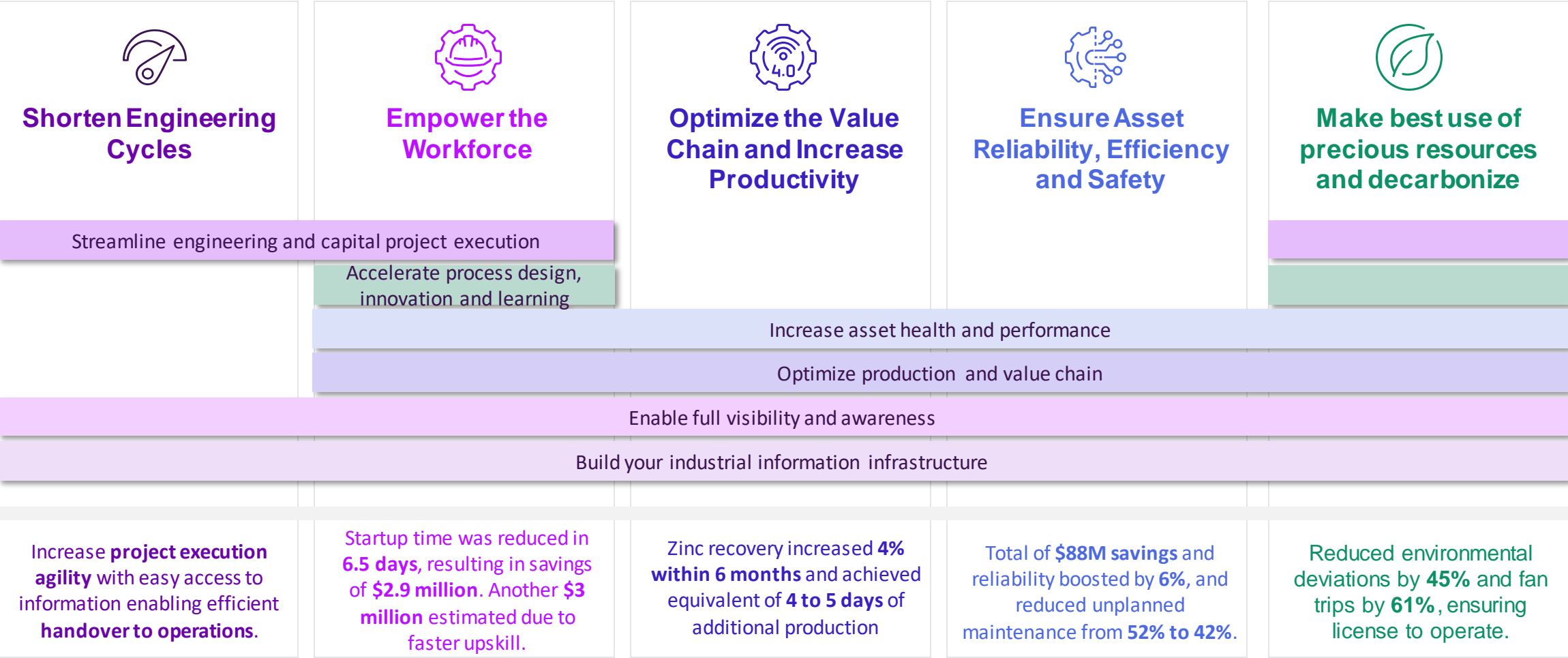
Increased regulations and  
business discontinuity

**83%**

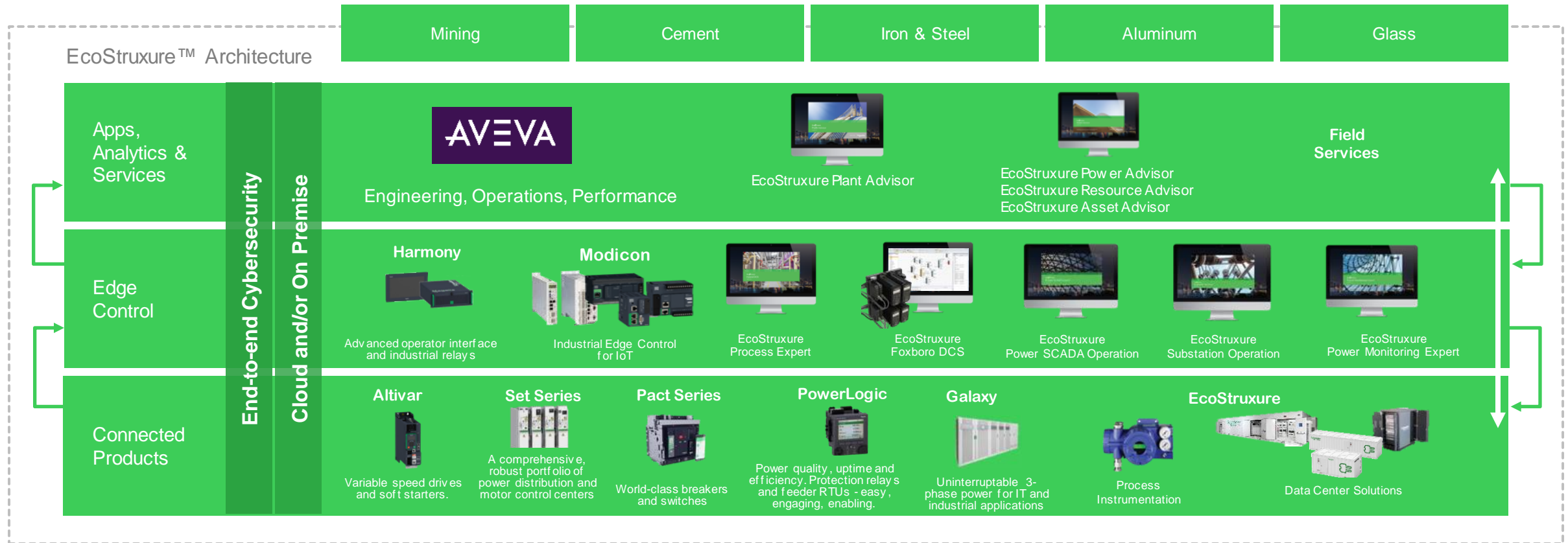
of mining and metals CEOs  
see meeting customer  
expectations as an  
influential factor that  
supports meeting their  
net-zero commitment<sup>5</sup>

Sources: 1. [Mining Technology](#); 2. [Deloitte](#); 3. [McKinsey](#); 4. [Angloamerican](#); 5. [PwC](#)

# Business imperatives and digital initiatives



# EcoStruxure™ for Mining, Minerals & Metals



# TODAY'S AGENDA

Session	Presenters	Time
Mining & Metals track introduction	Martin Provencher, AVEVA	10:45 – 10:55
Vale's Remote Operations Centre and the Importance of Near Realtime Telemetry	Chris Bertrand, Vale Norman Doucet, Vale	10:55 – 11:20
Rio Tinto: Digital Project Delivery for Rio Tinto Capital Projects - Strategy Development & Implementation	Paul Rushton, Rio Tinto	11:30 – 11:55
Algoma Steel: Cold Mill Digital Journey	John Gardner, Algoma Steel Michael McCracken, Algoma Steel	12:05 – 12:30
MFQ continues its digital transformation journey by relying on AVEVA Operations Control & predictive Analytics using the PI data foundation	Nicolas Toupin, Quebec Iron Ore	14:00 – 14:25
Northern Star Resources Limited: Digitisation of Logsheets	James Sweeney, Northern Star Resources Ltd Daniel Qiao, MIPAC	14:35 – 15:00
Nexa Resources: PI System and Predictive Analytics for Zinc Industry	Guilherme Guimarães Guedes, Nexa Resources Warley Jose Gomes Pereira, Nexa Resources	15:10 – 15:35
SOQUIMICH: The journey to Integrated Operations	Rodolfo Pino, SQM David Rojas Ramos, SQM	16:00 – 16:25
The Doe Run Company: Enhancing Operational Insight with AVEVA PI System and FactoryTalk Historian	David Boren, The Doe Run Company Keith Bouvier, Gray Solutions	16:35 – 17:00

# Sustainability impact study

## Join us on this journey

AVEVA and Capgemini are partnering with customers to validate the digital solutions sustainability impact on plant operations.

If your company is interested in a free evaluation of sustainability KPI improvements, go to the expo and **ask about the sustainability study**.

### Expo Booth

- Energy transition & circular economy
- Capgemini (Partner Expo)



### Use cases

- Accelerate low carbon transition with process simulation
- Process and utility optimization
- Increase reliability and efficiency with predictive analytics
- Reduce waste and energy consumption with information and production management

### Metrics

- GHG emissions
- Materials waste
- Energy consumption
- Water consumption



A photograph of three men in a trade show setting, smiling and engaged in conversation. The man on the left is wearing a light blue shirt and glasses. The man in the center is wearing a dark suit jacket over a blue shirt and glasses. The man on the right is wearing a blue shirt, a dark vest, and glasses. They are standing in front of a booth with a whiteboard and a laptop. The whiteboard has the title "PI System Calculation Engine" and a list of bullet points. The laptop screen shows a presentation slide. In the background, other people and booth displays are visible.

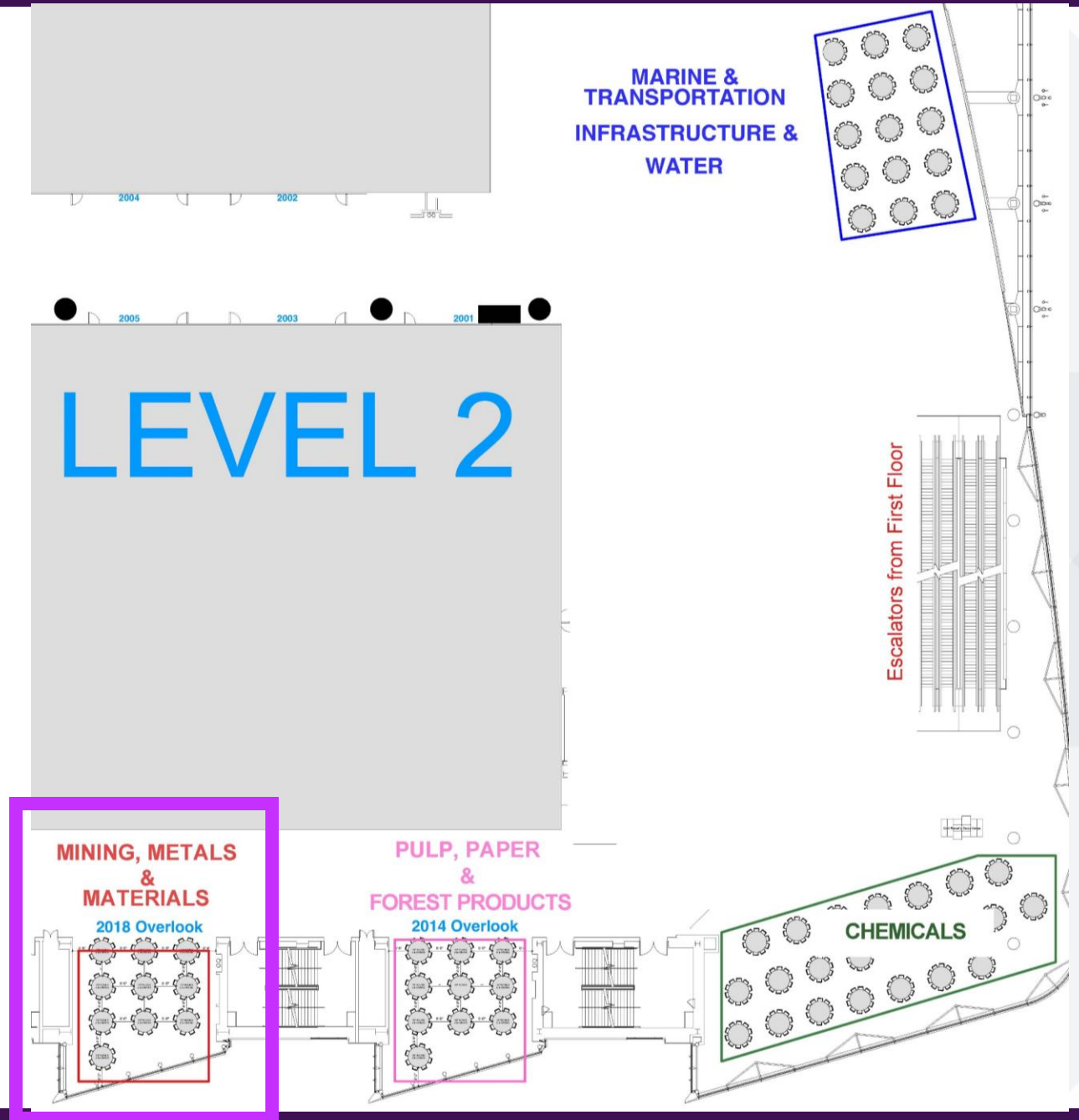
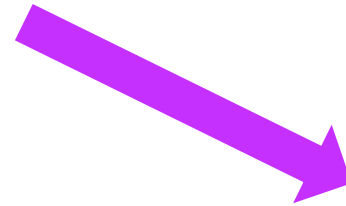
# JOIN US FOR OUR EXPO DINNER EVENT TONIGHT!

5:00 – 7:30 PM

Expo  
Dinner  
Reception

Industry  
Areas

Level 2



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# WE VALUE YOUR FEEDBACK!

Please watch for our post-event survey.





# Questions?

Please wait for the microphone.  
State your name and company.



# Please remember to...

Navigate to this session in the mobile app to complete the survey.



# Thank you!