Valmet \$

Valmet Industrial Internet

Valmet Capital Market Day September 18, 2018

Jari Almi, Head of Valmet Industrial Internet

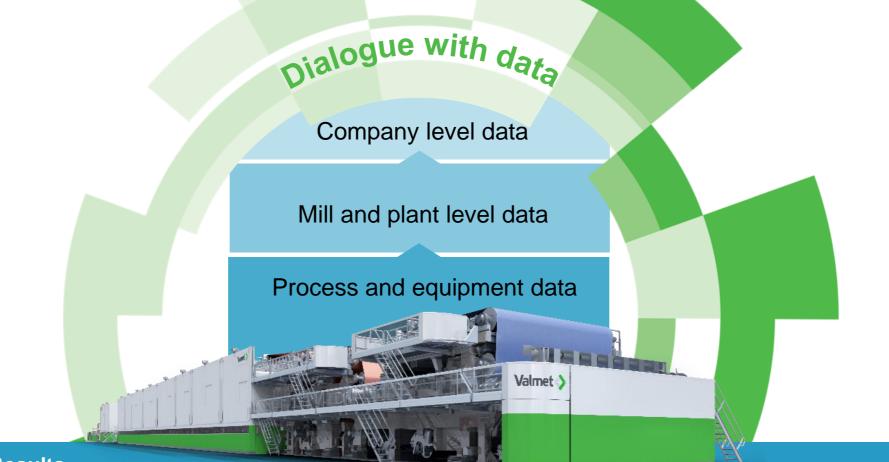
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Leveraging New Data-driven Opportunities



Results

- Reduced raw material and energy cost
- Improved product quality

Reduced downtime and unplanned stops

Improved service and maintenance predictability



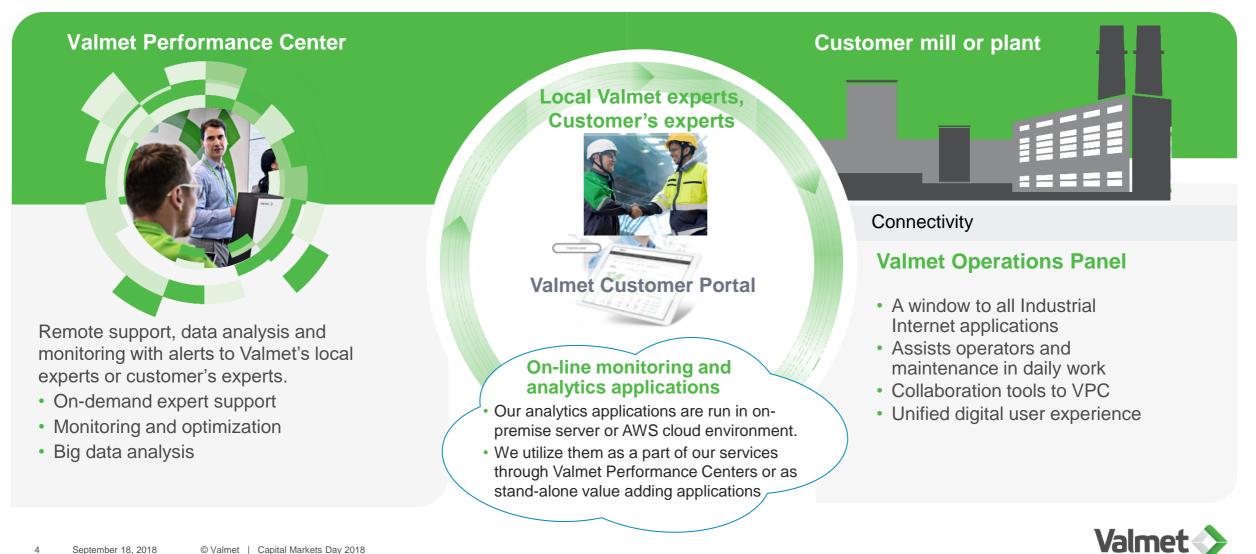
Today, customers are extensively utilizing our Industrial Internet capabilities





Valmet Industrial Internet

How we serve our customers



Use case 1. New performance-based services relying on data analytics and remote services

Challenge: Web breaks are causing a lot of unplanned operational downtime in a paper machine. In worst case, this might equal to 1–2 hours production loss per day \rightarrow 5–10 k€ profit loss



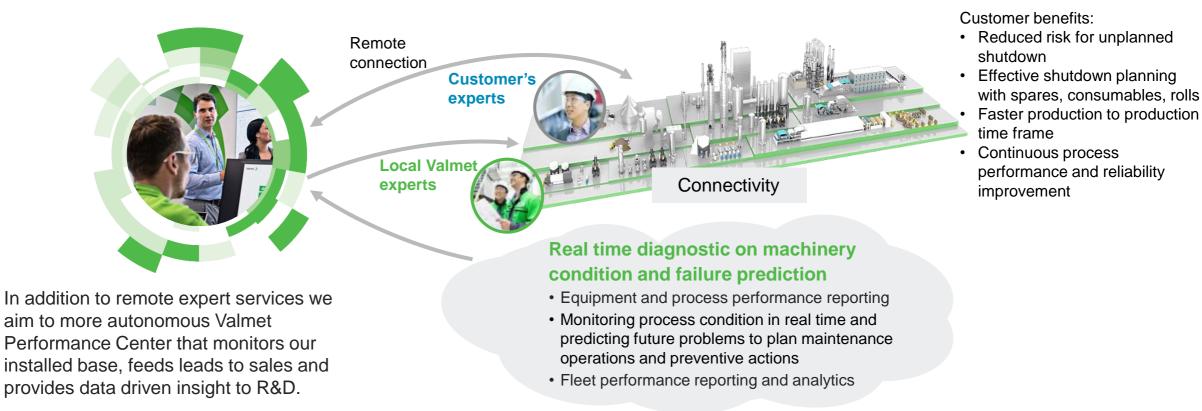
Solution:

- An analytical application that predicts sheet breaks in the process and communicates with operators (Valmet's or customers')
- This enables new type of performance- based services by utilizing the application and Valmet's expertise through the Performance Centers

Results:	m/min	g/m2	width/m	Profit € / tonne		Potential business models	Earning logic
	1500	80	7	100		Appliestion on Conf.	Fixed price I/C new menth
	Value for the customer: Increased production, if 25% of the breaks could be prevented (hrs): 0.42 h/d x 365 d = 153.3 h/yr In Profit (€): 772 k€/year					Application as SaaS	Fixed price k€ per month
						Application + support from VPC	Fixed price + bonus
						Performance based	Profit share



Use case 2. Connected plants and asset reliability optimization



Real time installed base monitoring combined with predictive diagnostic is a strategic differentiator for Valmet that generates new growth opportunity to our service business.



Valmet Customer Portal

Digital collaboration space

Having problems or questions? Contact us or search for a solution In case of energency, call us at +398 400 343 651 *





Operations panel

Window to Industrial Internet services for real-time monitoring and predictive work.

- Dashboards
- Production survey
- Paper Machine Diagnostics

Expert fastlane

Fast and simple way to contact Valmet experts.

- Access to Valmet
 Performance Center
- Valmet contacts
- Group discussions

Learning

Building internal capability – easy access to Valmet Learning Services

- · Course search
- Training selection
- Pre-sign up

Opportunities

New business opportunities and innovations.

- Shared roadmap
- Idea sharing
- Valmet references



