

Hype or necessity? What motivates industrial manufacturers to develop their own IIoT platforms

Jürgen Käser | 2019-04-03

Agenda



- 1. Company presentation
- 2. From 3.0 to 4.0 offerings
- 3. Driving forces
- 4. Make or buy?
- 5. Platform as a business model
- 6. Summary



Four Group Divisions A well positioned company

VOITH

Voith Group



Paper

Partner and pioneer in the paper industry



Hydro

Full-line supplier for hydro power plant equipment



Turbo

Intelligent drive systems and solutions

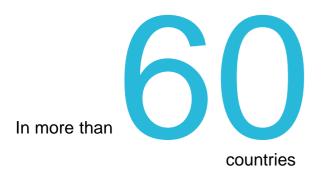


Digital Ventures

Solutions for the internet of things: networking and digitalization

Voith in figures





19535 employees



R&D ratio

5.4%

Family-owned since

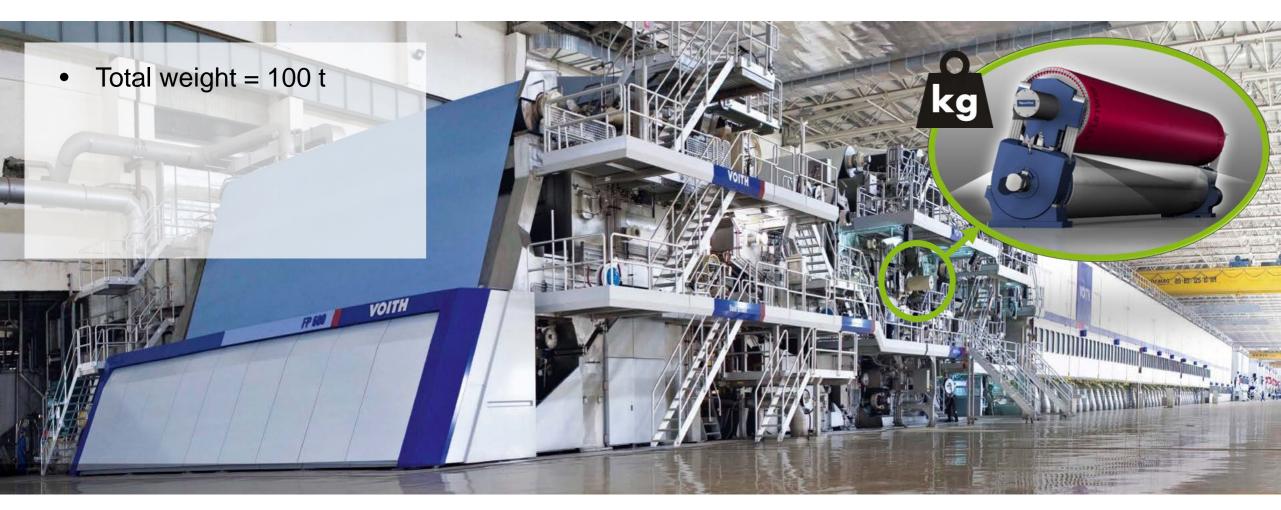
1867

Sales

€ 4.2 Billion

As of: 2017/18

















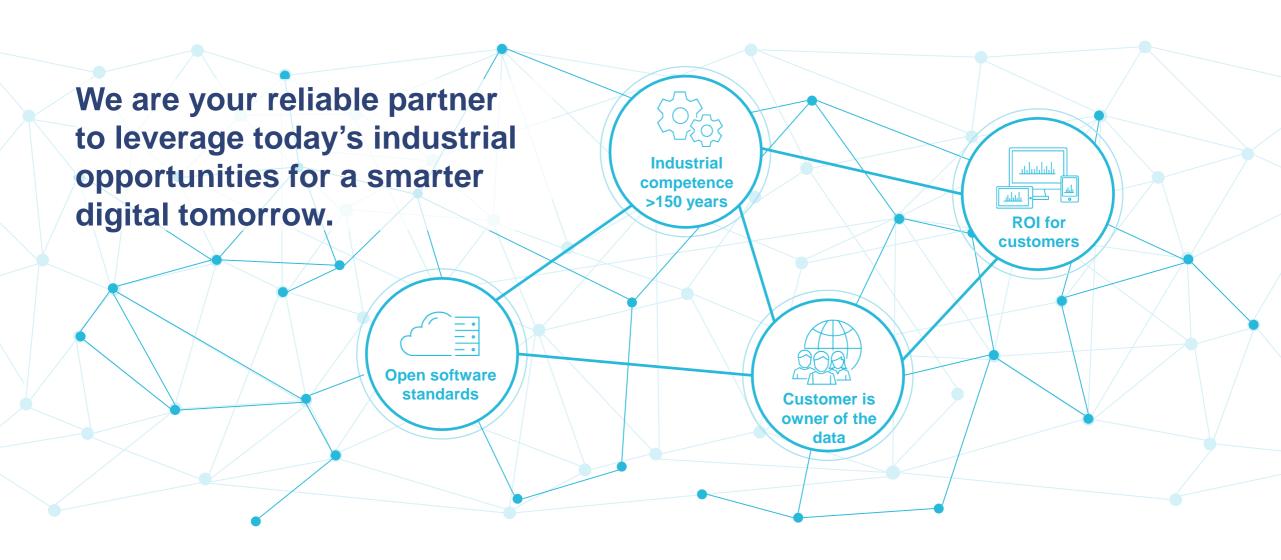






Vision





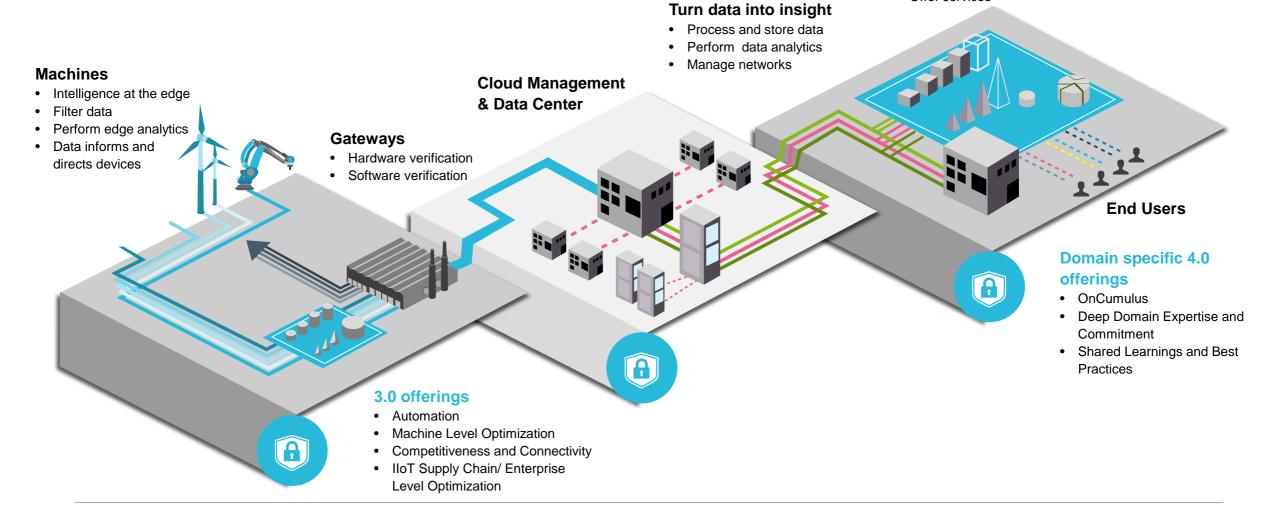
Why Industrial Internet of Things (IIoT)? From 3.0 to 4.0 offerings



12

Visualize data, optimize processes & maximize profit

- · Provide actionable information
- Automate operations
- · Offer services



Addressing customer needs Basis for solving pain points





Raw material

Predict raw material impact on product quality. Optimize raw material utilization.



Problem solving

Increase the speed of decision making through experience management and data analytics.



Intelligent alarming

React on alarms with defined measures and given priority.



Cost transparency

Know the cost impact of measures, ideally in advance.



Data reliability

Increase the performance of all features (e.g. cost tracking, controls) by verified, reliable data.



Customer Needs



Safe operation

Immediate notification on all deviations from normal.

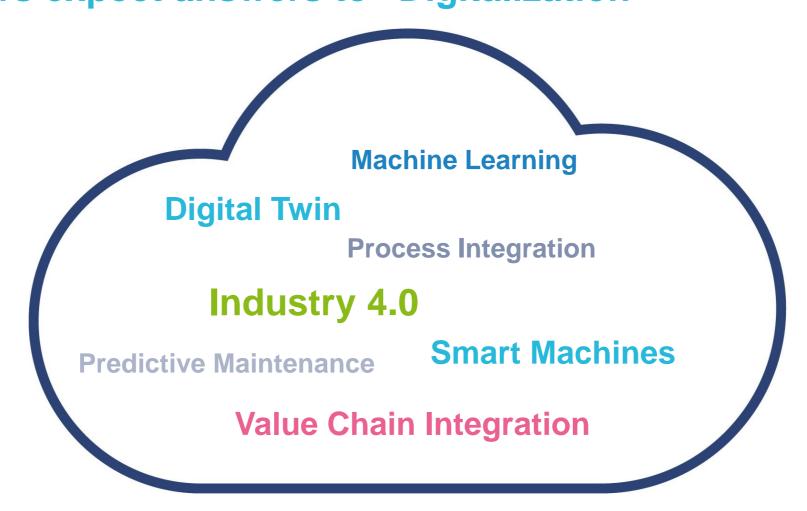


Successful IIoT solutions apply domain knowledge to data gathered from customers, increasing the customers benefit – and enable to get a share of this.

In this business the only way to scalable solutions is standardized domain driven applications addressing customer pain points.

Driving force – Customer pull Customers expect answers to "Digitalization"





Driving force – New revenue streams Business opportunities in the existing eco system



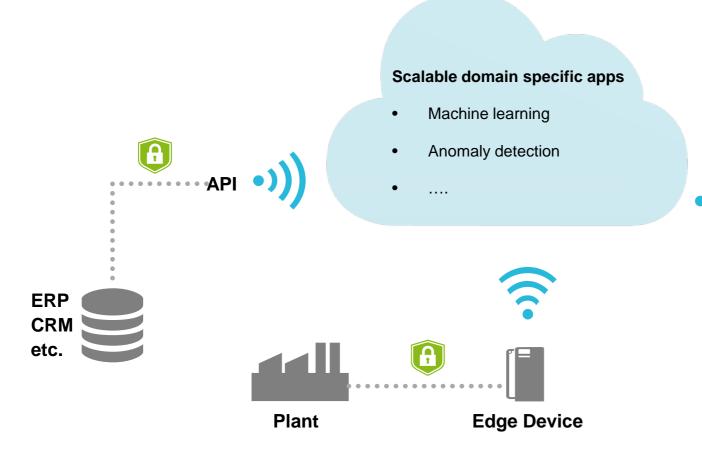


Continuous revenue out of the sold steel

- ✓ New business models
- ✓ Closer customer relation
- ✓ Performance contracts
- ✓ Service contracts
- ✓ Boost spare part sales
- ✓ Share benefits

No data – no Big Data Local data storage







Make or buy? Build own lloT platform





Build up in-house knowledge

Reuse "automation edge" and connect to platform

Establish internal processes for software development

Grows with the incoming tasks

Slow implementation

High initial cost

laaS reduces independence

Make or buy? Use public IIoT platform





Fast implementation

laaS is part of the offering

Managed services speed up platform / app development

Low customer acceptance

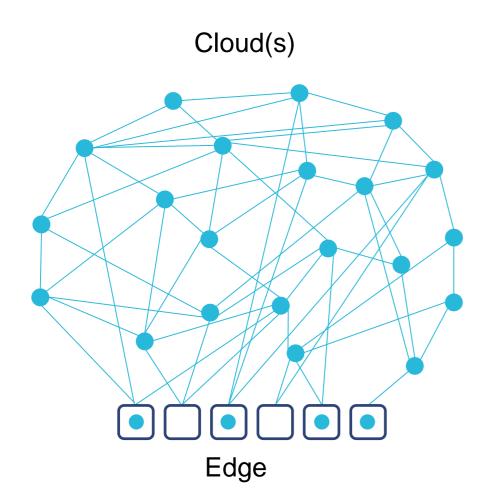
IP protection?

Strong binding to one supplier

Not suitable for all industry applications

The Platform as a business model? There will not be "the" lloT Platform





- Customers will not accept proprietary, isolated IIoT solutions of single suppliers
- Data will be interfaced from host to apps if requested by the customer
- Apps will run "somewhere"
- IIoT platforms will be a commodity and not add value to the supplying company
- Still they are the vehicle to get started NOW



Summary



- 1. IIoT applications will be an essential part of future business models
- 2. The value is within the applications the platform is a commodity
- 3. Key to be ready is to build up internal processes & knowledge

The questions are not

"Are we building and IIoT platform" or "make or buy"?

The main question is

"Are we fast enough to remain the technology lead in our industry?"



Thank you!

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