

Optimierung des Betriebsmitteleinsatzes durch Digitalisierung

Die neue Drahtwalzstrasse mit Fokus auf Big Data

voestalpine Metal Engineering GmbH & Co KG
www.voestalpine.com

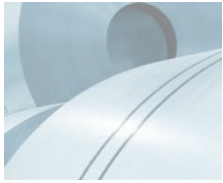
voestalpine
ONE STEP AHEAD.

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- » Überblick voestalpine wire rod Austria
- » Designaspekte Walzwerk
- » Entwicklungsstufen der Digitalisierung
- » Case: "Intelligente Walze"
- » Datengenerierung im Drahtwalzwerk
- » Aktueller Stand - Ausblick

voestalpine Group

OVERVIEW DIVISIONS



Steel Division



Metal Engineering Division



Metal Forming Division



High Performance Metals Division

voestalpine METAL ENGINEERING DIVISION

OVERVIEW BUSINESS UNIT

 Railway Systems	 Steel	 Wire Technology	 Tubulars	 Welding Consumables	 DIVISION
GLOBAL MARKET LEAD	EUROPEAN TOP SUPPLIER	EUROPEAN TOP SUPPLIER	GLOBAL TOP SUPPLIER	GLOBAL TOP SUPPLIER	
1.396,1 Mio. EUR Revenue	808,1 Mio. EUR Revenue	508,1 Mio. EUR Revenue	456,1 Mio. EUR Revenue	548,7 Mio. EUR Revenue	2.989,7 Mio. EUR Revenue *

* Consolidated

voestalpine WIRE TECHNOLOGY

OVERVIEW PRODUCTION FACILITIES

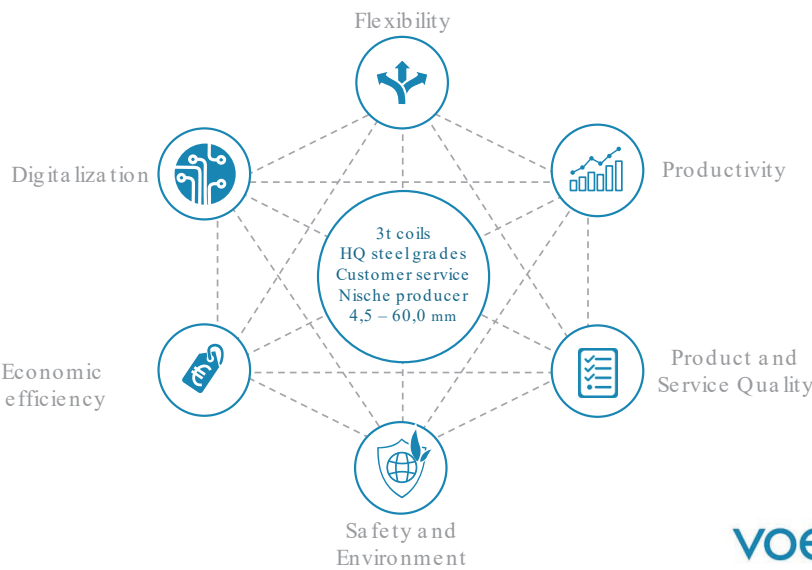
BUSINESS YEAR
2017/18

	 voestalpine Wire Rod Austria GmbH	 voestalpine Wire Austria GmbH	 voestalpine Wire Germany GmbH	 voestalpine Wire Italy s.r.l.	 voestalpine Wire Suzhou Co. Ltd.	 voestalpine Special Wire GmbH	Gesamt
Production (to/a)	426.000	100.000	90.000	60.000	3.700	1.500	
Revenue (Mio. €)	352	122	83	51	8	6	508 *
Employees	419	337	172	90	13	75	1.119 **
Position Detail	TOP NR. 1 IN EUROPA TOP NR. 1 IN EUROPA TOP PLAYER IN EUROPA TOP PLAYER IN EUROPA Cold heading and drawn wire Surface and heat treatment Premium wire rod Profiles for specialized applications						

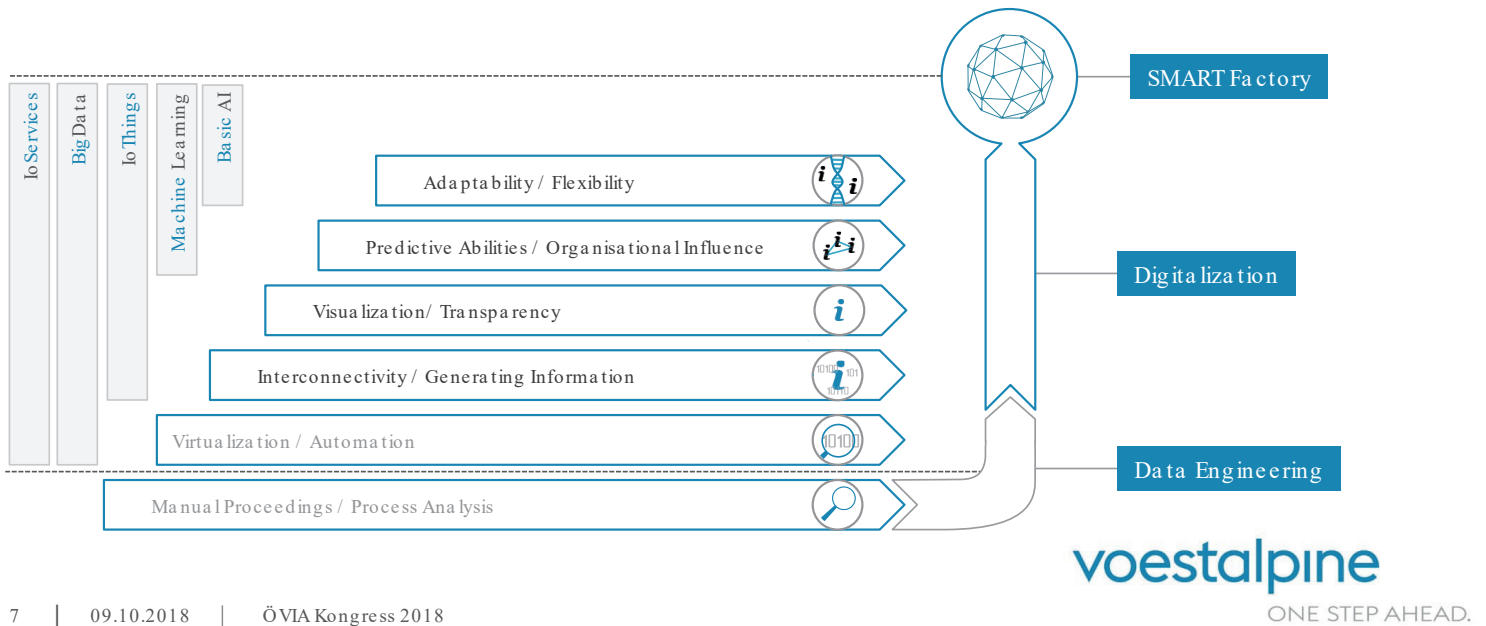
* Consolidated Revenue
** inkl. voestalpine Wire Technology (Holding)

voestalpine WIRE TECHNOLOGY

Rolling Mill– RANGE OF INTERACTIONS

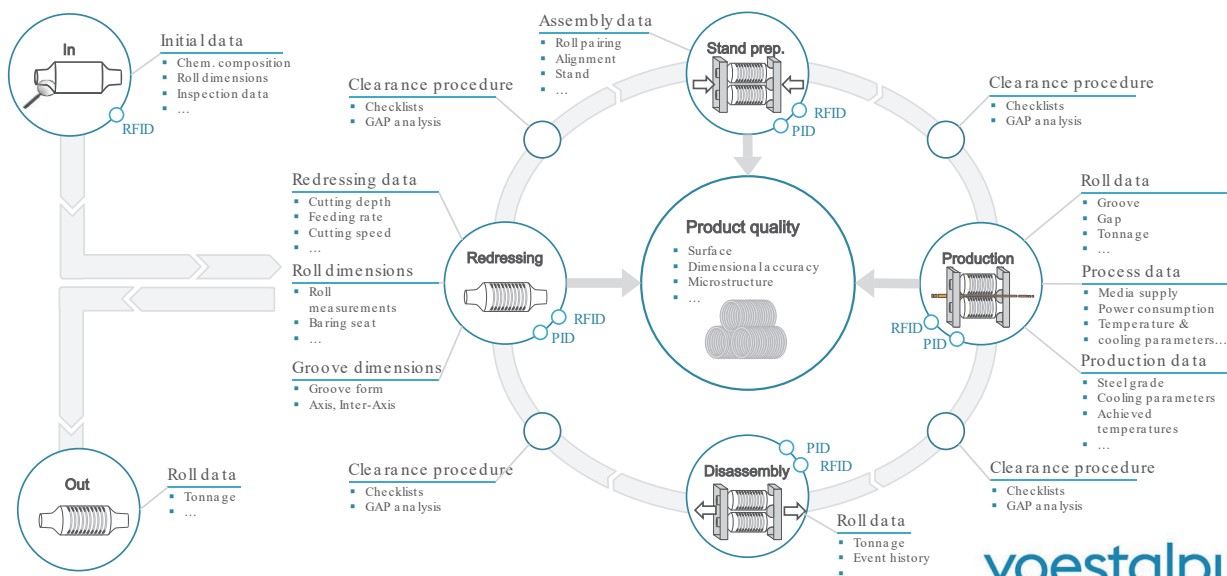


EVOLUTIONARY STEPS OF DIGITALIZATION



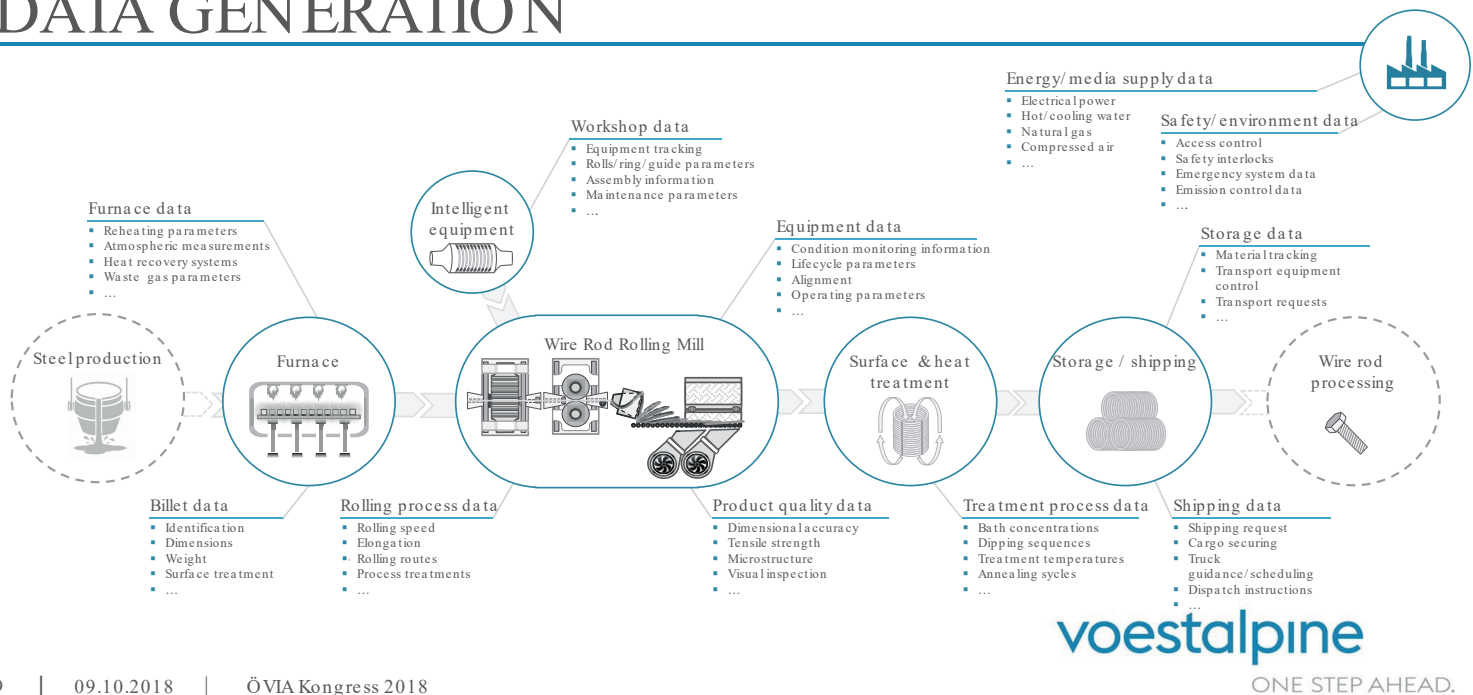
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CASE: INTELLIGENTE WALZE



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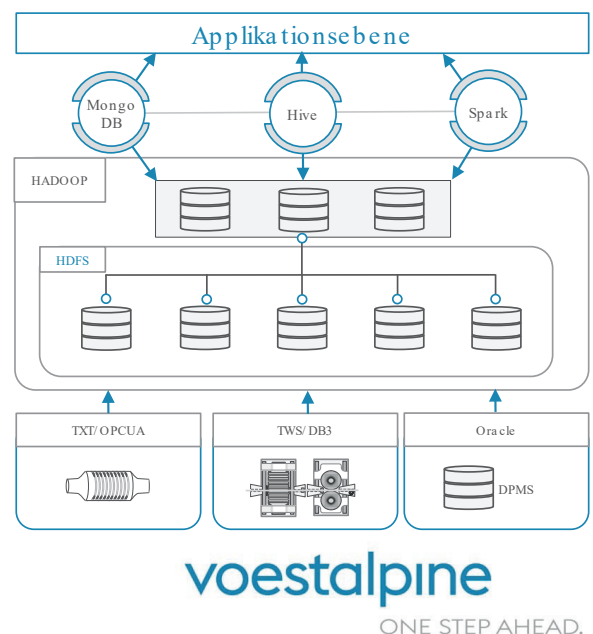
THE MOST ADVANCED WIRE ROD ROLLING MILL DATA GENERATION



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DIGITALIZATION DATALAKE

- » Integration of **Hadoop** technologies stack
- » Broadening of processing framework with **Mongo DB**
- » Expansion of Connectors enabling easier development of Applications



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DIGITALIZATION

Current situation and outlook

