

### Krauss Maffei

**Pioneering Plastics** 

# Digitalization

# Cultural Change or Cultural Clash

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#### PRICEWATERHOUSE COPERS @

**IBM Services** 

### **SIEMENS**





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# DIGITALIZATION CULTURAL CHANGE OR CULTURAL CLASH

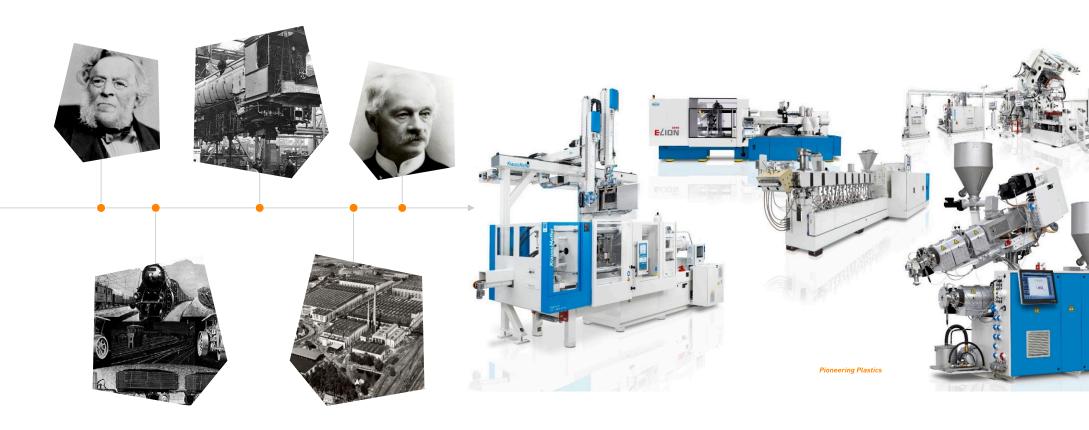
#### Are you curious?

- What is KraussMaffei doing?
- Why do we transform from product to customer centricity?
- What are the key pillars of our digital transformation journey?
- What are our lessons learned in scaling digital service products?
- How to lead our operating systems of lifecycle & digital services?

# What is KraussMaffei doing?



#### KraussMaffei – An impressive industrial history



### PIONEERING PLASTICS

Manufacturers of machinery and systems for the production and processing of plastics and rubber.

Our brand stands for cuttingedge technologies. For more than 180 years. Our range of services covers all areas of injection molding machinery, extrusion technology and reaction process machinery.

60
LOCATIONS
WORLDWIDE

**SINCE** 1838

16

PLANTS

**PRODUCTION** 

000

~5.000 NUMBER OF EMPLOYEES

**30** SUBSIDIARIES

1,200 PATENTS

ABOUT **570**COMMERCIAL AND

SERVICE PARTNERS

REACTION PROCESS MACHINERY

REACTION PROCESS MACHINERY

Electroics

Electrical Engineering

Cansumer Goods

Medicine

White Goods

Packaging

#### PIONEERING PLASTICS

- » At the cutting edge of digitalisation.
- Working with and for our customers.
- One brand. Limitless possibilities.









#### Manufacture of "everyday products"

#### Product examples for machine utilization at customers

#### Packaging industry/ consumer goods industry

Boxes and buckets, bottle closures and caps, PET bottles, thin-walled packaging

#### White goods

(Insulating) components for refrigerators, washing- and automatic coffee machines, buttons, handles, trims

#### Construction industry

Pipes, window and door profiles, insulating material, panels, floors, fittings, handles, buttons, smart home components



#### Automotive industry

Light beams and other lighting concepts, structural parts with / without Carbon fibers, bumpers, tires, interior components, foamed trim/surfaces, tire semi-finished products, different films for various applications

#### Electrical/electronics industry

Surface parts and covers for computers, mobile devices, game consoles, hi-fi and household devices, switches, housings, gears, crown wheels, displays,(Insulating) components

#### Medical industry

Injectors, inhalers and other medication dosing units, cannulas, ophtioles, surgical instruments (manufactured under highest cleanroom conditions)

# Why do we transform from product to customer centricity?



#### Changing digitalized world requires new mindset from product to customer centricity

### From... PRODUCT-CENTRIC Approach





This KraussMaffei machine is characterized by the following features.

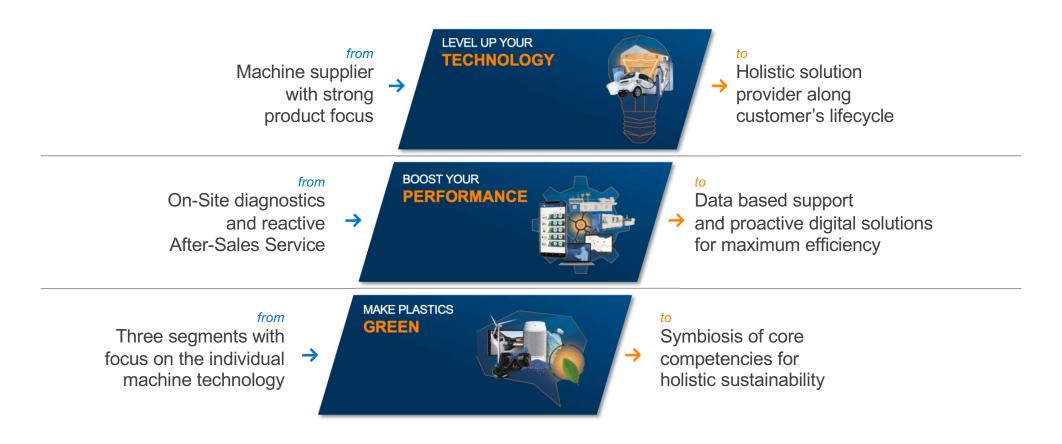






What customer value does (only) the KraussMaffei solution have for me?

## With our realignment, we will become a holistic solution provider with a focus on the production efficiency and sustainability of our customers



## KraussMaffei creates Customer Value with tailor-made Solutions along the entire ,Customer Journey'

### Holistic Solutions with Customer Focus

Logistics Medical & Packaging Automotive Lightweight Surfaces
Circular Economy
Beverage Flat & Foam Products
Technical Rigid & Soft Foam Appliances





### Service Products & Digital Solutions

#### Relocations

socialProduction

Field Service state APC+ & APC+ & Injection Molding as a Service smartAssist



#### We offer a wide range of lifecycle and digital products bundled in Smart Service Packages

Holistic overview on our DSS Service Product Portfolio

#### Lifecycle Services





**Digital** Services

#### **EXAMPLES**

- Commissioning Retrofit
- Spare parts
- Machine Relocation
- Field Service
- Training
- Reman, Repair and Used Machines







Field Service



#### Injection Molding Machinery IMM



#### Extrusion Technology EXT



#### **Reaction Process Machinery RPM**





#### **SMART SERVICE PACKAGES**

Bundle of our Lifecycle Services with Digital Products to ensure maximum customer value



Our service packages providing full-time protection, availability and fixed cost to budget

#### **OUR PERSONALIZED** PRODUCT FAMILIES ...

- Maintenance4You
- Productivity4You
- Factory4You
- Usability4You

smartAssist Maintenance4you



socialProduction Productivity4you



Injection Molding as a Service Usability4you



What are the key pillars of our digital transformation journey?



The basis for every transformation is a clear strategy.



Structure follows
Strategy –

Digital & Service Solutions



## OUR VISION

# Redefine plastics solutions to generate business impact & customer value

- moving beyond machinery
- focusing on end-to-end service execution
- value creation with long term customer relationships
- leading portfolio of digital solution
- innovative new business models.

We combine Service & Digital Excellence.

Our aim is to create by digitalization a unique customer

experience with regards to speed, availability and competence.

CXPERIENCE with reg

KRAUSSMAFFEI'S

# DIGITAL & SERVICE SOLUTIONS

> 50.000

MACHINES IN OPERATIONS
GLOBALLY

> 600

LOCALIZED SERVICE TECHNICIANS

ONSITE FOR CUSTOMER SUPPORT

6

**DIGITAL PRODUCTS** 

Scaled in more than **30** countries

42

SALES & SERVICE

VENTURES

O polymore

A COMPANY OF KRAUSSMAFFEI

> 700

B2B COMPANIES ON POLYMORE.COM

> 80%

OF REQUESTED MATERIALS
ARE RECYCLATES

EACH NEW MACHINE

EQUIPPED WITH 5G-READY CONNECTIVITY HARDWARE

> 100.000

SPARE PARTS SHIPMENTS
PPER YEAR GLOBALLY

3

> 20

MAIN SPARE PART HUBS
IN EUROPE, ASIA AND
AMERICA — DRIVING SPEED
AND AVAILABILITY

(DIGITAL) PRODUCTS

TO DRIVE SUSTAINABILITY

AND CIRCULAR ECONOMY

2

GLOBAL CUSTOMER SERVICE-& ECOMMERCE EXPERIENCE PLATFORMS

> 2.000

ACTIVE USERS OF DIGITAL PRODUCTS & SERVICE PER MONTH

5

> 40

DIGITAL EXPERTS IN ONE GLOBAL TEAM

OUR CUSTOMER VALUE DRIVEN SERVICE PORTFOLIO...

... based on global E2E processes – enabled by Digital Solutions

- Business value for our customers
- Global support for local success
- State-of-the-art technologies

ì

DIGITALIZATION HUBS > 5 STARTUPS

AND > 10 KEY PARTNERS

IN DIGITAL ECOSYSTEM

> 100

STARTUPS SCREENED AND SCOUTED IN THE LAST 12 MONTHS



#### Data is our new electricity!







>50k

KraussMaffei machines worldwide

>2k

**new** KraussMaffei machines **every year** 

>8 PetaByte

of machine data generated per year in 2024

PB = PetaBytes, 1 PB = 1,000 TeraBytes = 10<sup>15</sup> Bytes = .1.000.000.000.000.000 Bytes

#### MAINTENANCE4YOU



#### PRODUCTIVITY4YOU



#### **USABILITY4YOU**



Usage fee Machinery
Service
Financing
Risk Transfer

Krauss Maffei Pioneering Plastics

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**DIGITAL** 

INSIDE

# SOCIAL PRODUCTION

Production. Communication. Mobile. Intuitive.



#### Machine overview, KPIs & automated process monitoring for faster reaction time

Challenges, impact and value drivers of socialProduction



- No consistent access to production status and process parameters
- Communication problems in the production plant & use of semiofficial private messengers
- Non-automated process monitoring and only a few parameters are provided with tolerances



#### **IMPACT**

- Insufficient transparency of production
- Slow reaction times and high downtime costs e.g. during ghost shifts
- Unstable processes that lead to rejects or changing component quality
- Regular, manual control of the process and data evaluation (e.g. using the actual value protocol)



#### **VALUE DRIVERS**

Knowledge about machine status and getting information everywhere

(Value metric: Reaction time, downtime, monitoring time)

Automated identification of sudden and creeping deviations in the injection molding process

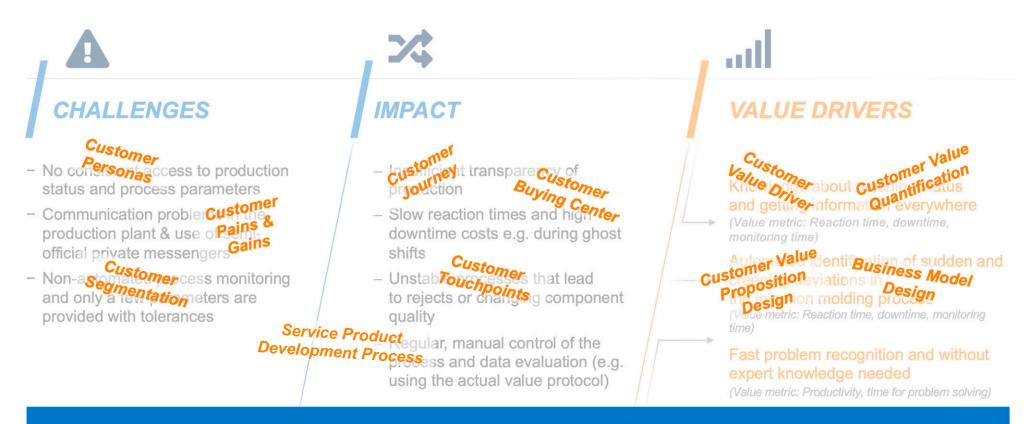
(Value metric: Reaction time, downtime, monitoring time)

Fast problem recognition and without expert knowledge needed

(Value metric: Productivity, time for problem solving)

#### Machine overview, KPIs & automated process monitoring for faster reaction time

Challenges, impact and value drivers of socialProduction



Method & Tools to drive Capability Development in Customer Centricity

### Revolutionary Machine-to-Human-to-Human Communication PRODUCTIVITY4YOU – socialProduction

socialProduction enables a completely new way of digital production & makes team communication easier than ever before

- Reduce your process-related downtimes significantly!
  Our autonomous process monitoring reports independently and gives advice to you. Your machines will talk to you.
- The modern **messenger** brings humans and machines together. **Documentation** with full control of your data included. Rethink communication.
- Your machine status at anytime and anywhere!

  All relevant machine information is visible real-time on your mobile device at anytime. Be always up to date and safe time.



#### CATCH PHRASE

Social messenger with integrated earlywarning system (e.g. tire pressure sensor)

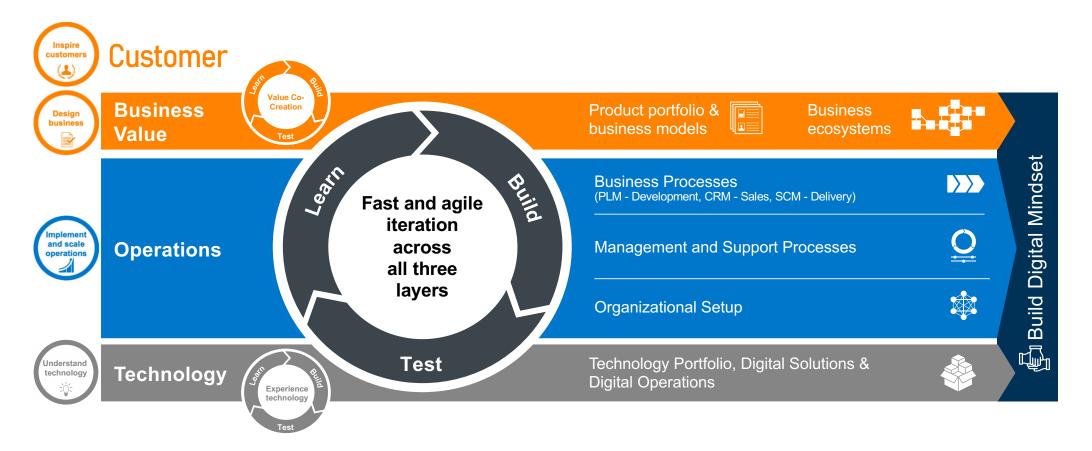
What are our lessons learned in scaling digital service products?



# Monetarization of Digitalization



#### Key Elements of Digital Transformation by scaling Digital Service Products



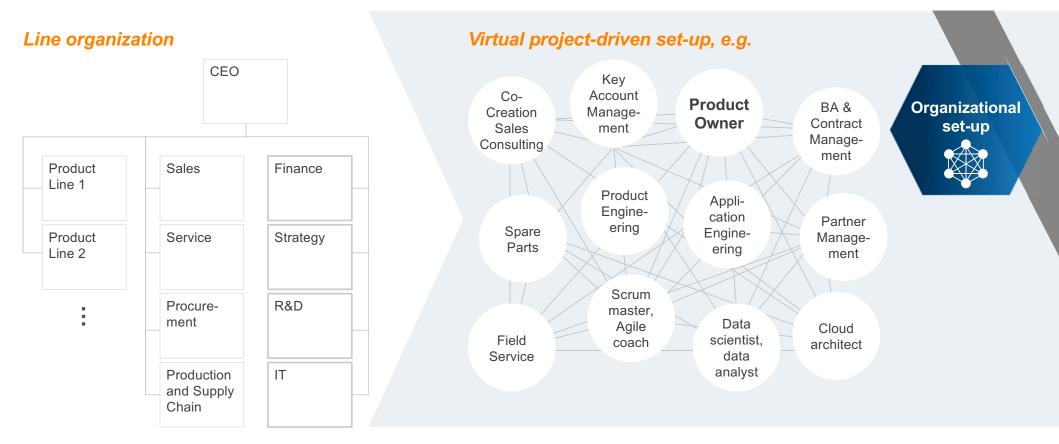
How to lead our operating systems of lifecycle & digital services?



# Mindset & Culture



## The organizational set-up of a digital company requires a virtual project-driven set-up with close cross-functional collaboration



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Pioneering Plastics

#### Corporate operating Systems meets Digital operating System

Two operating systems require different mindsets and working approaches

**CORPORATE** 



#### Digital Transformation requires to build a Digital Mindset

**Key Principles** 

#### **Experiment**

from condemning all failures...
... to valuing learnings



from technical perfectionism...
... to continuous customer validation





#### Courage

from pure evolution ...
... to trying radical innovation



from perfect plan ...
... to fast iterations and speedy results



Digital Mindset



#### **Trust**

from command and control ... ... to guiding principles and trust

#### Resources

from innovation as lip service ... ... to a dedicated set-up





#### **Network**

from silo thinking ...

... to skilled and cross-functional teams

# Digitalization = 010101 Digitalization = Mindset

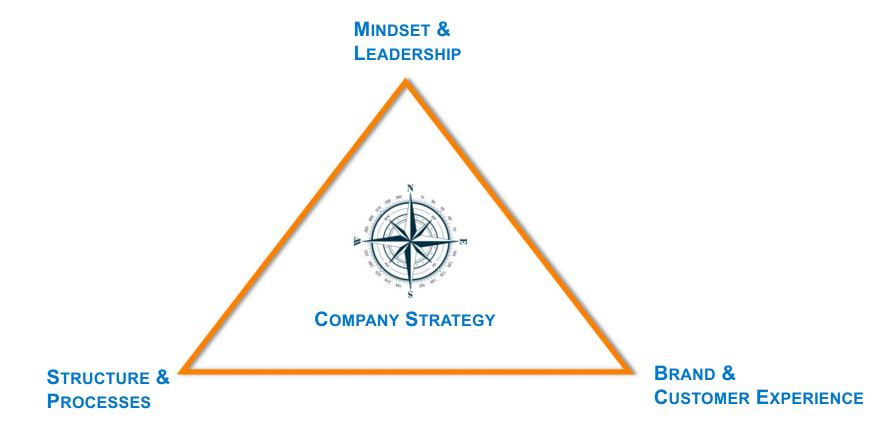
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# Let's summarize



#### Digital Transformation @ KraussMaffei



# QUESTIONS



