

### Value Generation From Machine Data 4.0

**Roetger Sander** 

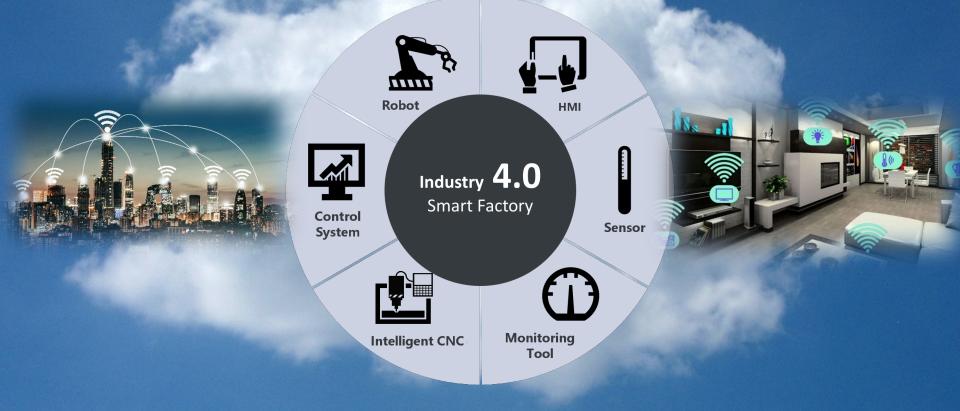


TOGETHER, WE ACHIEVE MORE.



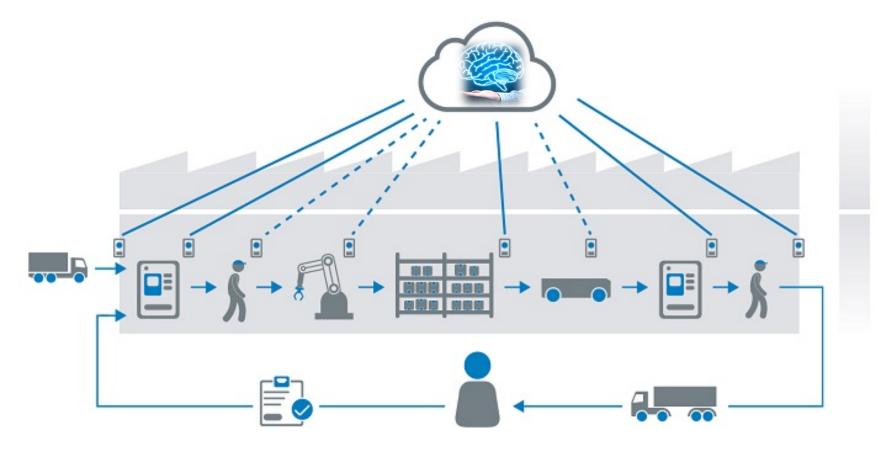


#### Industrie 4.0 Leads Most Of Us To Think about...



#### ....Where Many Data Are Stored....

# ...And All Factories, Homes,... Become Smart, Smarter And...



# ...But Mainly We Feel Like We Are In A Matrix And Need To Find The Door = Used Case!

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### So, What Did We Learn While Being In The "Digital Age" With "Industrie 4.0"?



Continuous Operation And Productivity Have Highest Ranking From Machine Builders And Operators

**Operation Availability** 

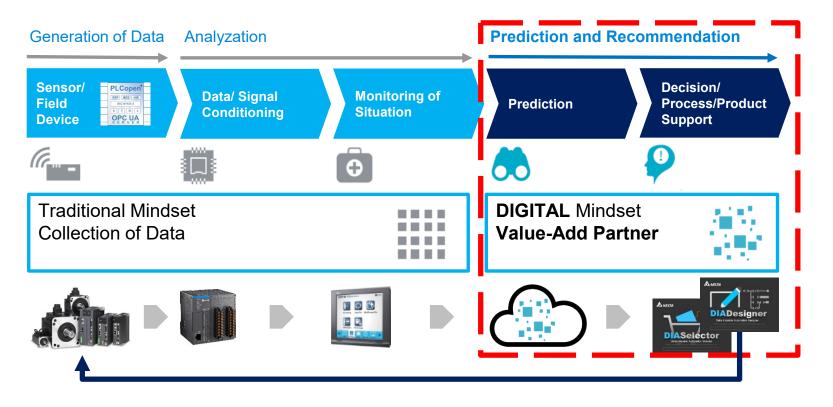
# **P** out / **P** in = Efficiency

Reduce Wear	1.91
Optimum Fulfillment of CR	2.11
Improve Quality	2.17
Reduce Commissioning Time & Costs	2.21
Minimize Warranty Costs	2.43

# Let's Have a Look At The Digital Value Chain

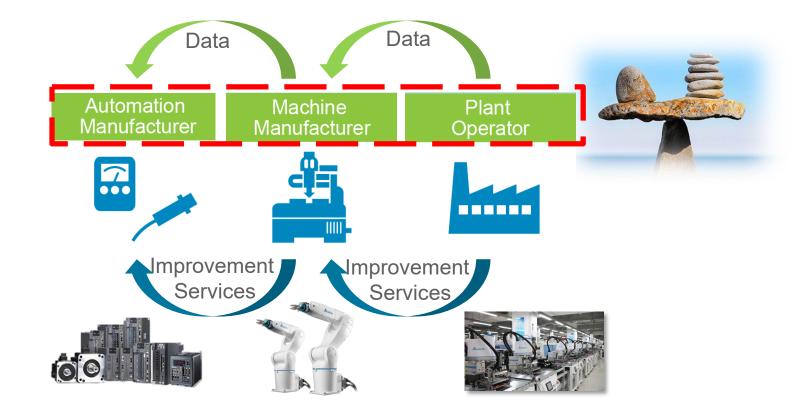


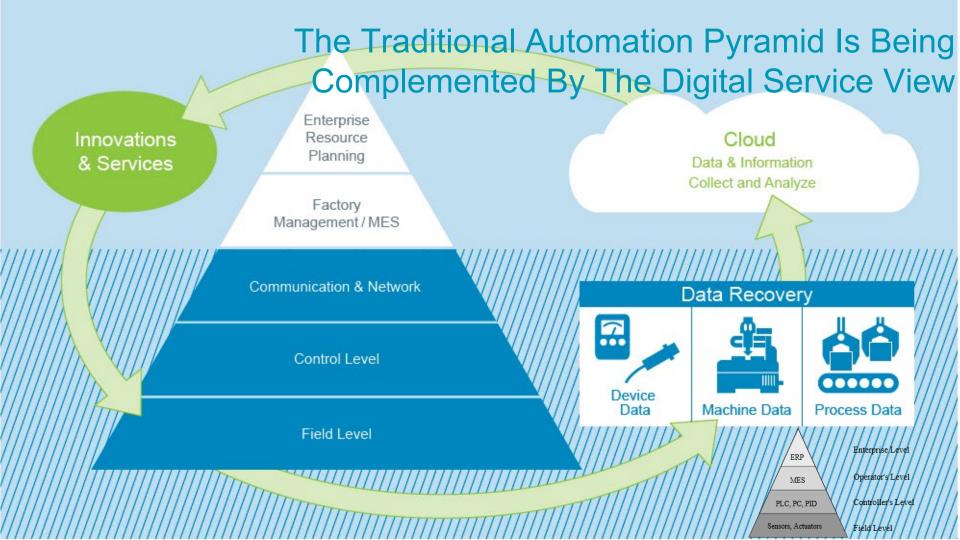
# Obtained Data From The Field Needs To Generate Value For Engineering And Operation





# Three Major Stakeholders Are Involved To Ensure Value Generation From Machine Data





# How Can We Turn It Into Practice?



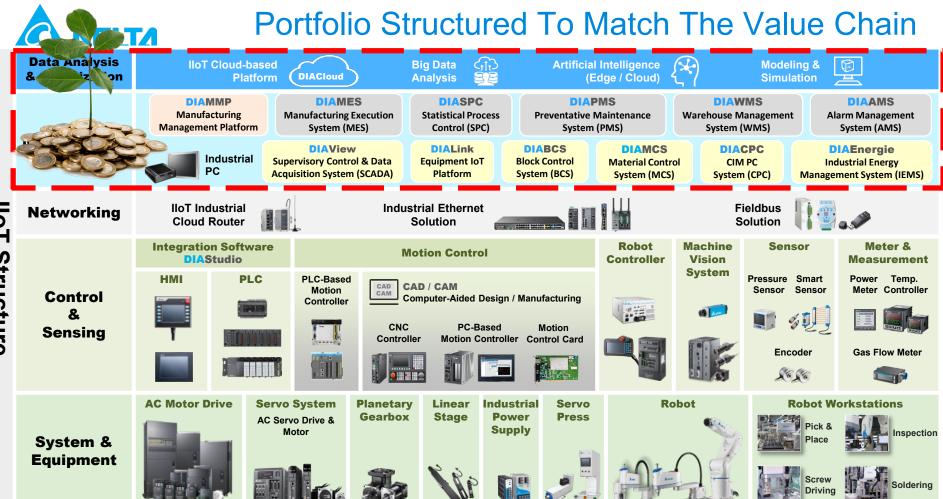
Engineering	1.65
Drafting of Contracts	1.74
Marketing / Sales	1.88
Risk Mitigation Measures	2.12
Technology Maintenance, Updates	2.21
Machine Operating and Maintenance	2.39

Figure 5: Average priority of efforts, Source: VDMA Technik-im-Dialog "Value Generation from Machine Data" [1]

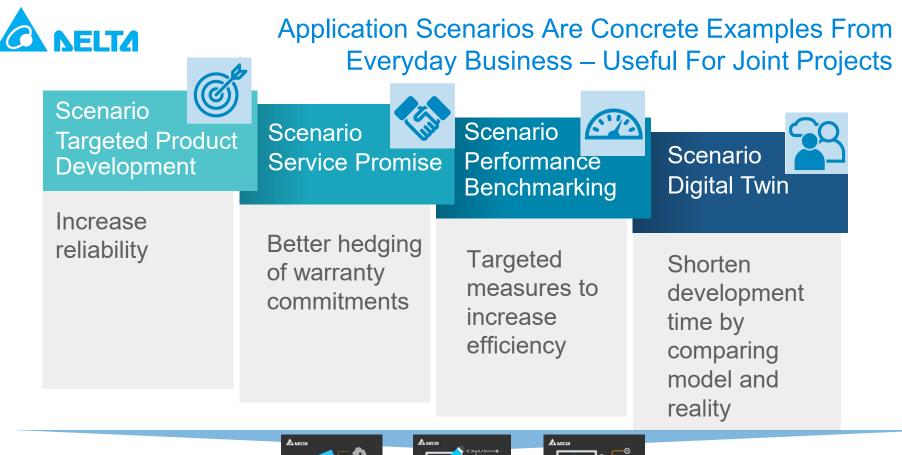


#### Application Scenarios Are Concrete Examples From Everyday Business – Useful For Joint Projects





lloT Structure







# How Can I Create A Benefit While Sharing My Data?



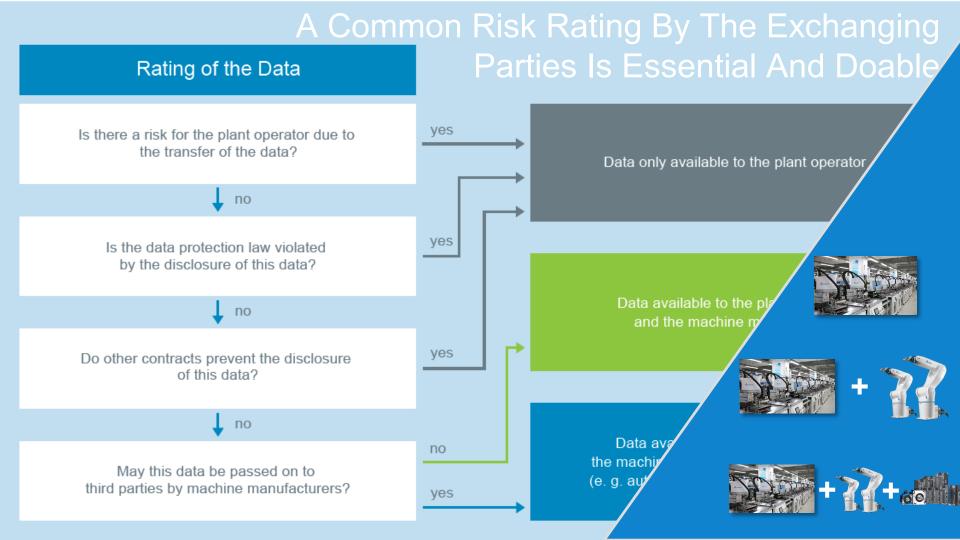


# Interest Of Parties Is Different But If it Becomes Complementary It Becomes Beneficial For All

#### **Application Scenario: Condition Monitoring**

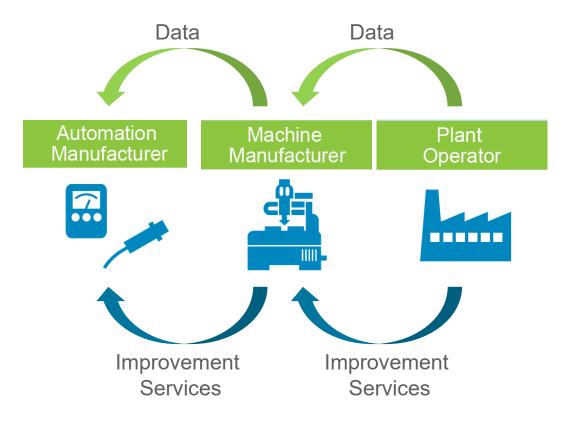
Assessment and evaluation of the benefit aspects for	Project Partner 1 e.g. Machine Manufacturer	Project Partner 2 e.g. Plant Operator
Minimize Downtime		
Optimize Availability		
Improve Productivity		
Increase Efficiency		
Reduce Wear		
<b>Optimum Fulfilment of Customer Requirements</b>		
Improve Quality		
Reduce Commissioning Time and Costs		
Minimize Warranty Costs		

#### How About The Risk Of Loosing My Data Property?





## Only If The Three Major Stakeholders Are Working Close Together Can Value Be Generated









- ✓ Automation companies are partners in information retrieval
- ✓ Mutual trust and a common application scenario are the basis for success
- ✓ For future competitiveness data exchange is essential
- ✓ Creating win-win for all parties involved
- ✓ Assessment of Benefit, Effort and Risk
- ✓ Partnership is the starting point of value generation

### **Together, we achieve more!**

# Smarter. Greener. Together.

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