

### INDUSTRY 4.0: REINVENTING DIGITAL TRANSFORMATION

### WHAT IS INDUSTRY 4.0?

The adoption of digital technology has reached a point where we are ready for another radical change, the digital transformation of the industry or what we call Industry 4.0.

91%

of industrial companies are investing in digital factories

billion is the expected level of global spending on IoT solutions 2020

88%

of global industrial companies agreed that the industrial Internet of Things (IIoT) is critical to their future success

66%

said IIoT will result in new revenue streams and business models for their company

### FROM INDUSTRY 1.0 TO INDUSTRY 4.0



**LATE 18TH CENTURY** First industrial revolution: Power generation



**CENTURY** Second industrial revolution: Industrialization



1970S - 2000S Third industrial revolution: **Electronic automation** 



**2010 ONWARD** Fourth industrial revolution: **Smart automation** 

### WHAT MAKES UP INDUSTRY 4.0?



**CYBERSECURITY** 



**REALITY** 





**ADDITIVE** 

**MANUFACTURING** 









**CLOUD COMPUTING** 



**INTERNET** 

**OF THINGS** 

### INDUSTRY 4.0 IMPLEMENTATION AND USAGE



### INITIAL CONNECTIVITY

Introduction and implementation of initial stages of data collection



Advanced networking, digitalization and automation adjustment, thus retrieving maximum potential from collected data, and applying advanced algorithms

**OPTIMIZATION** 



Digital thread is set up to go through the entire process; high-end cybersecurity measures are implemented to keep the data protected

**PROCESS FLOW** 

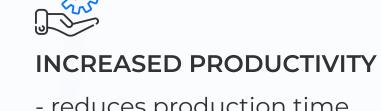
AND QUALITY



### **NEW BUSINESS MODELS**

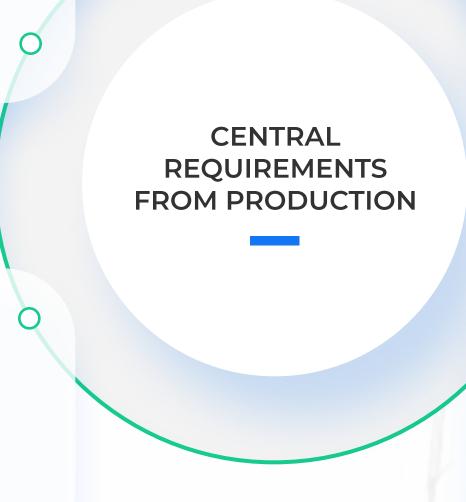
The collected data and insights are utilized to generate innovative revenue streams, as well as add value for customers

## WHY IS INDUSTRY 4.0 **IMPORTANT?**



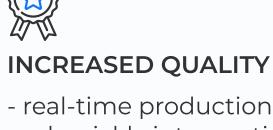
#### - reduces production time - enables better asset utilization and

inventory management





#### - manufacturing flexibility through machines and robots



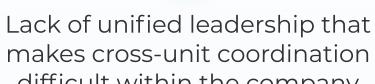
#### - real-time production monitoring and quickly intervention in case of

errors

# **INCREASED SPEED**

- short time between the first product or idea to the finished one

# **KEY CHALLENGES** OF INDUSTRY 4.0



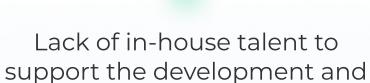
difficult within the company

Data ownership concerns when

choosing third-party vendors for hosting and operationalizing company data

Lack of courage to launch the

radical digitalization plan



deployment of Industry 4.0 initiatives

Difficulties with integrating data Lack of knowledge about from various sources to enable technologies, vendors and IT initial connectivity outsourcing partners that could help execute the core initiative

2020