# Future Proof Machine Safety

From regulation to practice

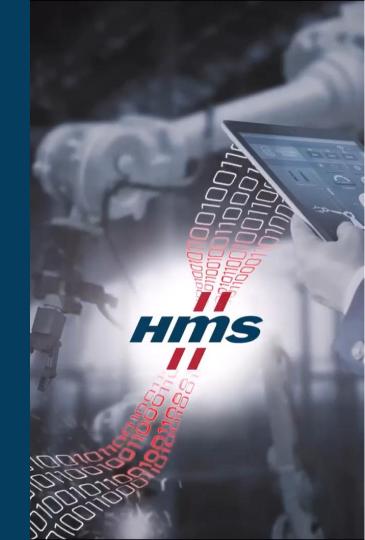
Yuan Lee

**Business Development Manager** 

Sep Schraven

Key Account Manager

March 2024





### Official announcement - regulation update

29.6.2023

EN

Official Journal of the European Union

L 165/1

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(Legislative acts)

#### REGULATIONS

REGULATION (EU) 2023/1230 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 14 June 2023

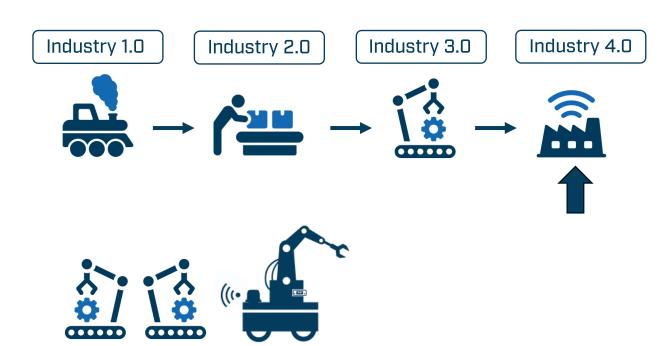
on machinery and repealing Directive 2006/42/EC of the European Parliament and of the Council and Council Directive 73/361/EEC

(Text with EEA relevance)





#### Industrial Revolutions



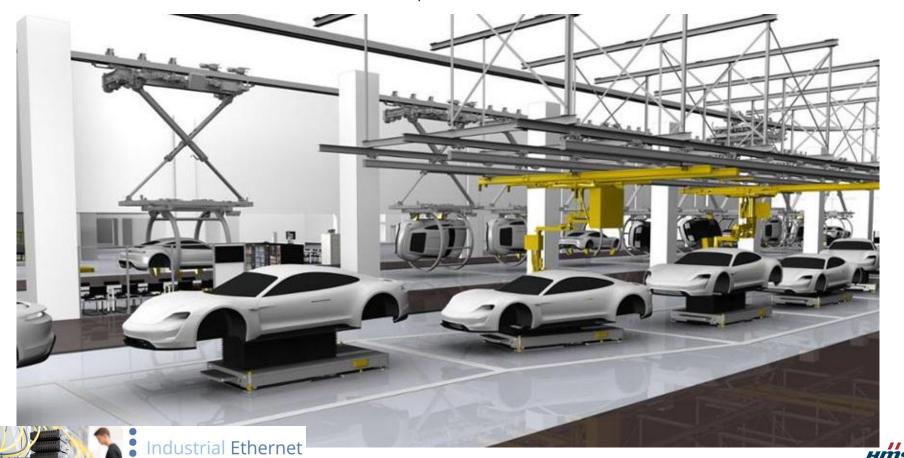
System to system integration







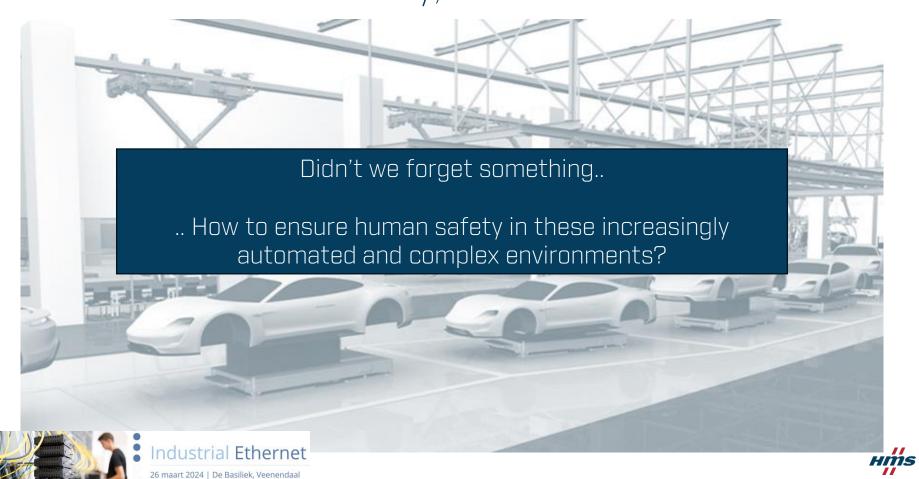
# Increased flexibility, increased wireless controls



26 maart 2024 | De Basiliek, Veenendaal

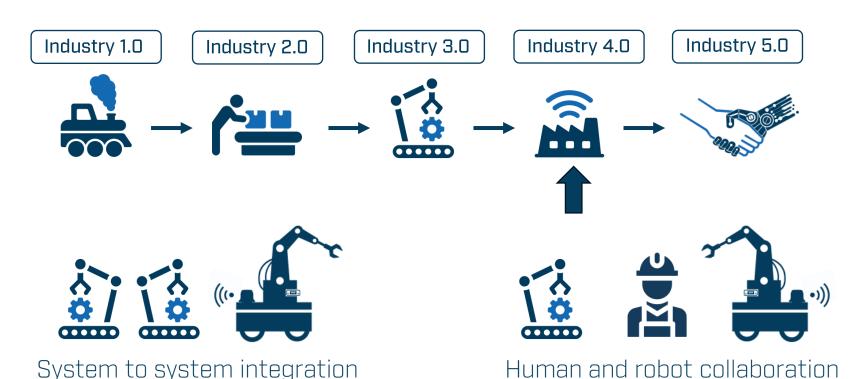


## Increased flexibility, increased wireless controls





#### Industrial Revolutions



System to system integration



# New EU Machinery Regulation



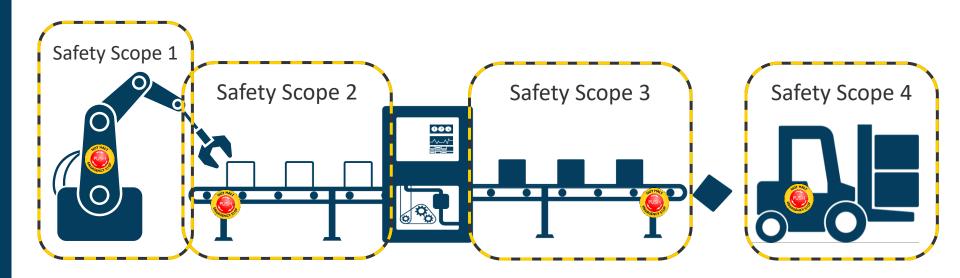
# Practically, how does the machine regulation impact machine and shopfloor?





#### Machine safety today

Safety control based on specific machines or part of machines.



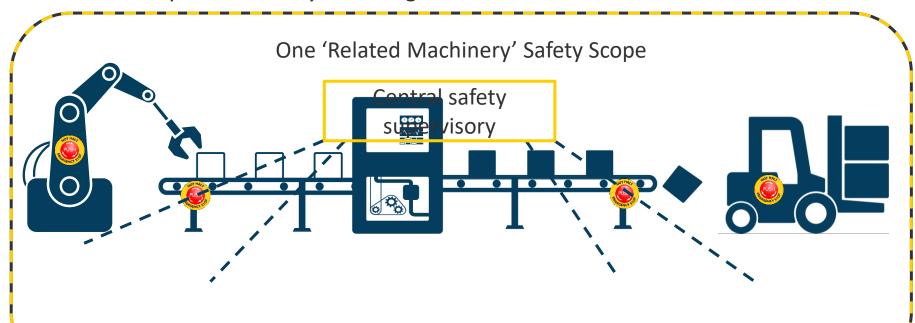






### Safety according to new machine regulation

Safety control based on 'machinery and related equipment if it's continuous operation may be dangerous'







# What to take into consideration for coming regulation?





## Future Proof your Machine Systems



Time

Value

Engineering effort and resource

Time to market

Flexibility and interoperability



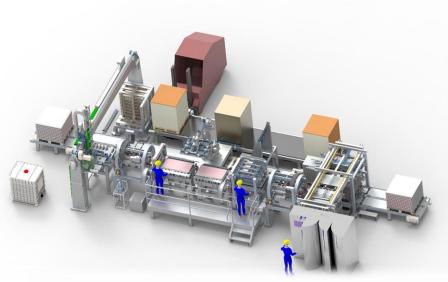
















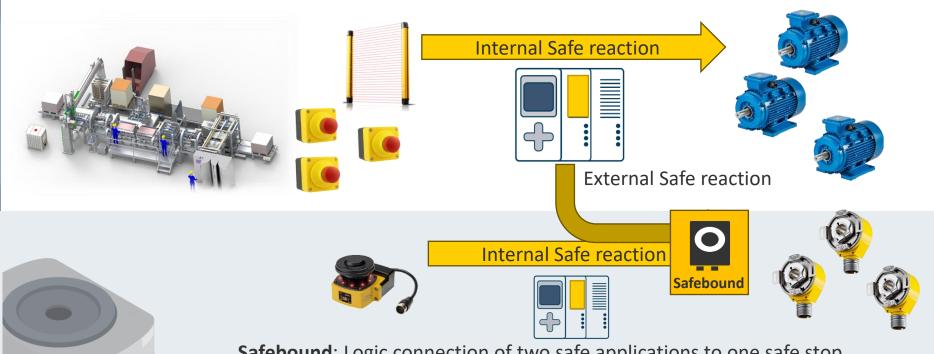


## The Safebound





### Seamless upgrade your safety system



**Safebound**: Logic connection of two safe applications to one safe stop

• A Faster internal safety loop e.g. local safety sensors/logic

Industrial Ethernet A Slower external safety loop e.g. wireless emergency remote stop



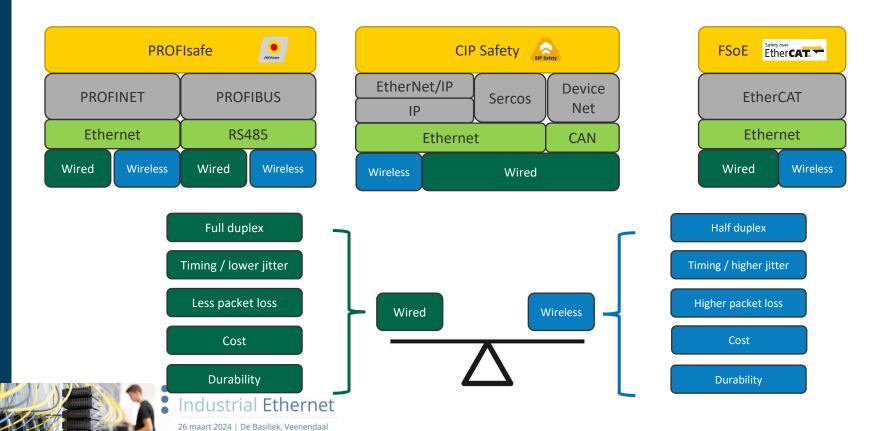


# But how can we deal with moving parts wirelessly?





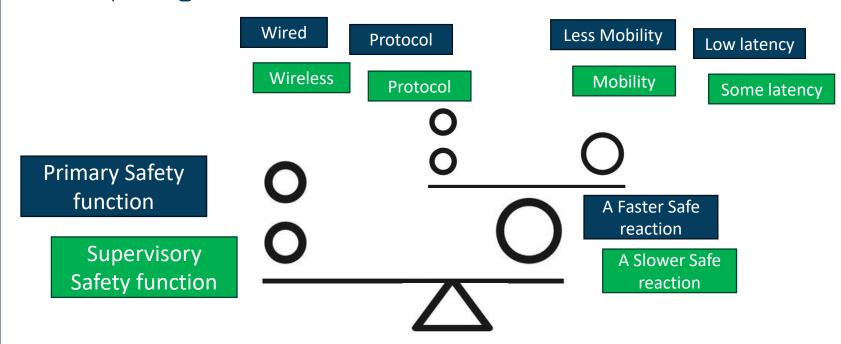
### The underlying layer - Protocols



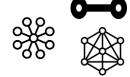




### Adapting communication











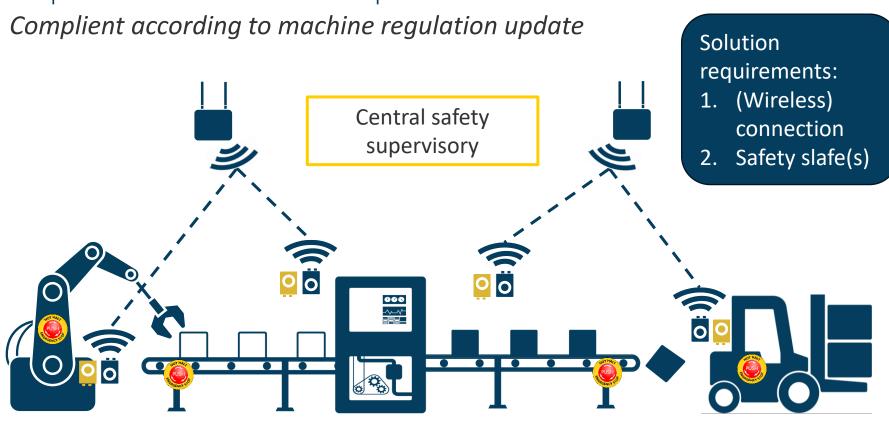


## The difference HMS makes





#### Implementation example - machine line







# Case study:



#### Customer: AMR Manufacturer



#### **Application:**

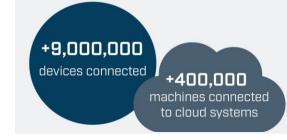
Using HMS solution for remote e-stop which can be integrated with customers' safety infrastructure



#### Why HMS?

- Pre-certified solution fast time-to-market
- Wide range of support across different safety protocols
- Wireless solution for industrial protocols

#### HMS at a glance



# Our field: Industrial ICT

(Information and Communication Technlogy)



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# Key take-aways

- 1. New EU regulation accepted, valid from 2027, as part of CE certificate
- 2. Safety supervisory is introduced in the regulation update
- Safebound is THE solution for direct internal safety loop and delayed (wireless) external safety loop
- 4. Wired or wireless? → Do your homework ©
- Don't re-invent the wheel, dare to ask!





### Questions?

#### Let's contact:

Sep Schraven Key Account Manager



Yuan Lee Business Dev. Manager







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Yuan Lee Business Dev. Manager



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www.hms-networks.com