

# New and Upcoming Technologies in Steelmaking



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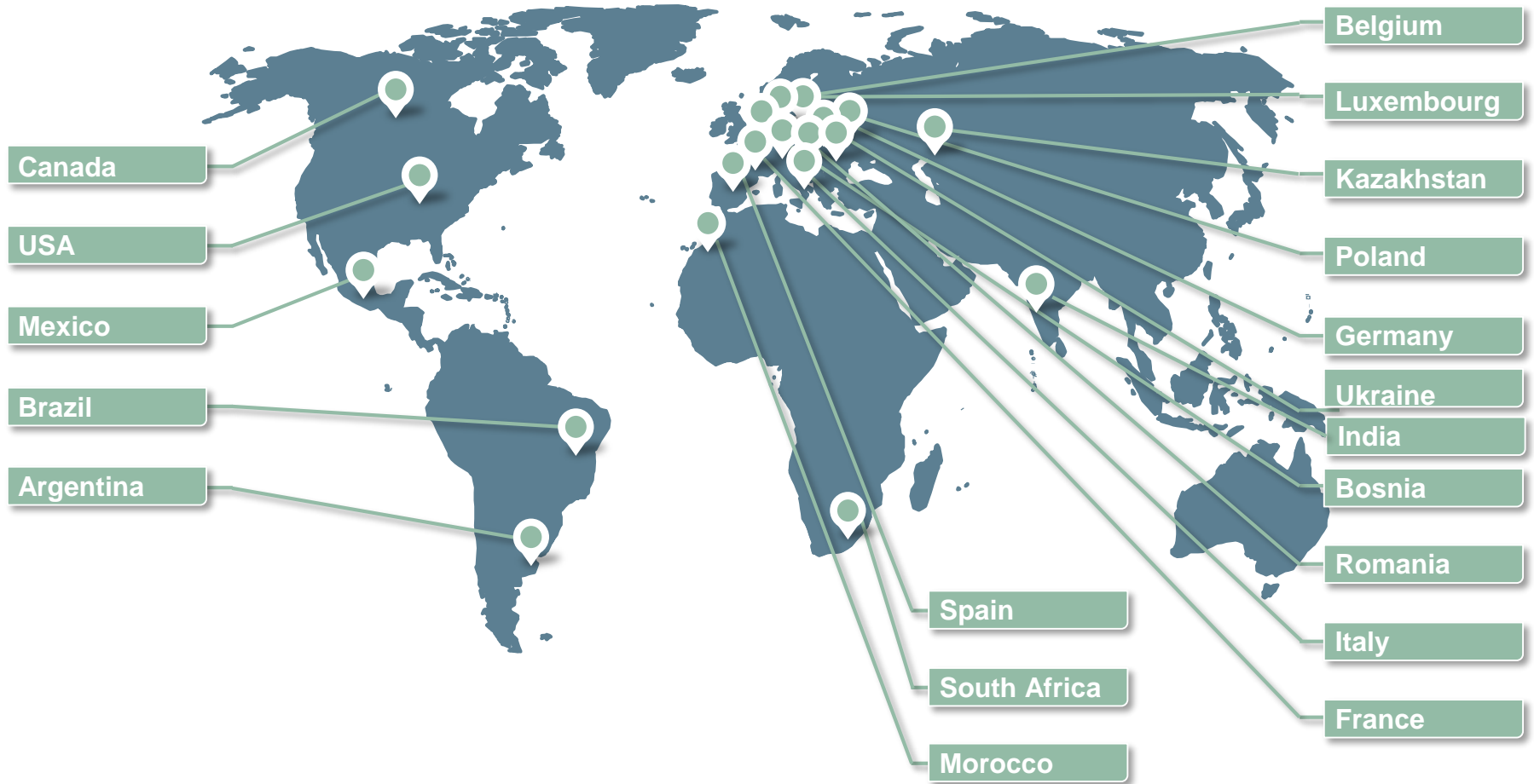
Pinakin Chaubal  
January 21, 2020



# ArcelorMittal – Industrial footprint\* in 19 countries

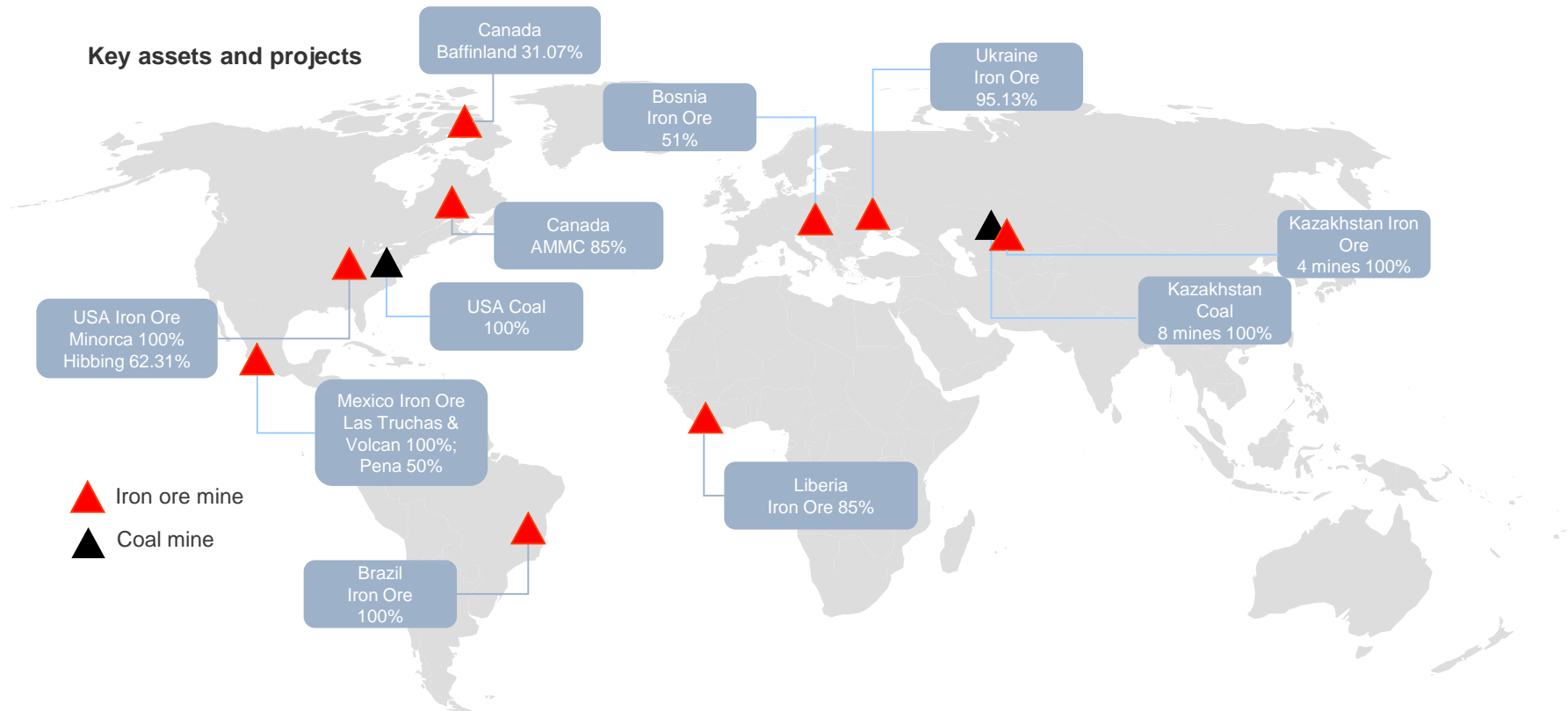


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\* Crude steel operations

# ...and a global mining portfolio that addresses our steel needs and the external market



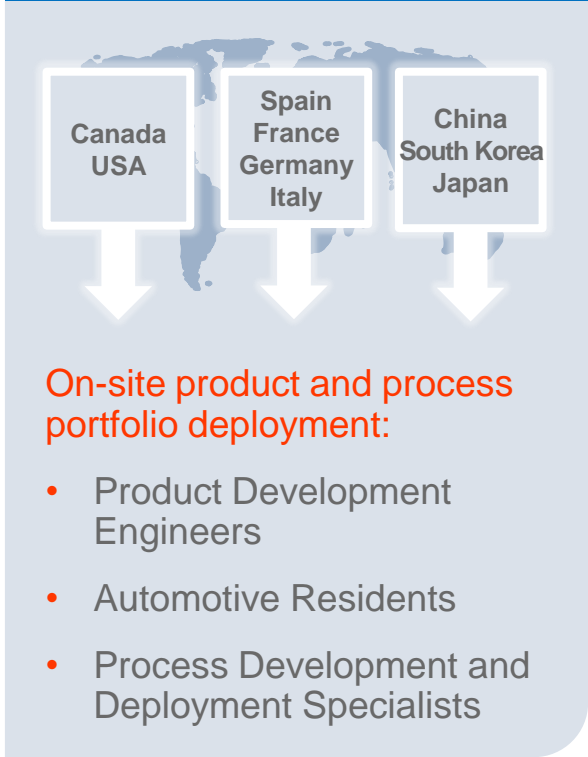


# A Global network of R&D Centers

## 11 geographical sites



## Presence at customer location on 3 continents



...which enables us to continually evolve the way steel is made...

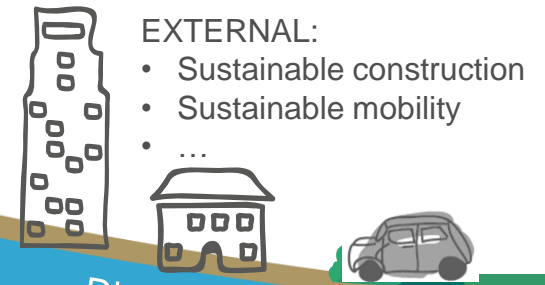


# Sustainable Manufacturing *in the age of* Digitalization



INTERNAL:  
• Energy conservation  
• Yield improvement  
• Footprint optimization

EXTERNAL:  
• Sustainable construction  
• Sustainable mobility  
• ...



Environment

Digitalization

Digitalization

We contribute to sustainability  
via internal and external developments



# Sustainable low emissions steelmaking embodying Circularity

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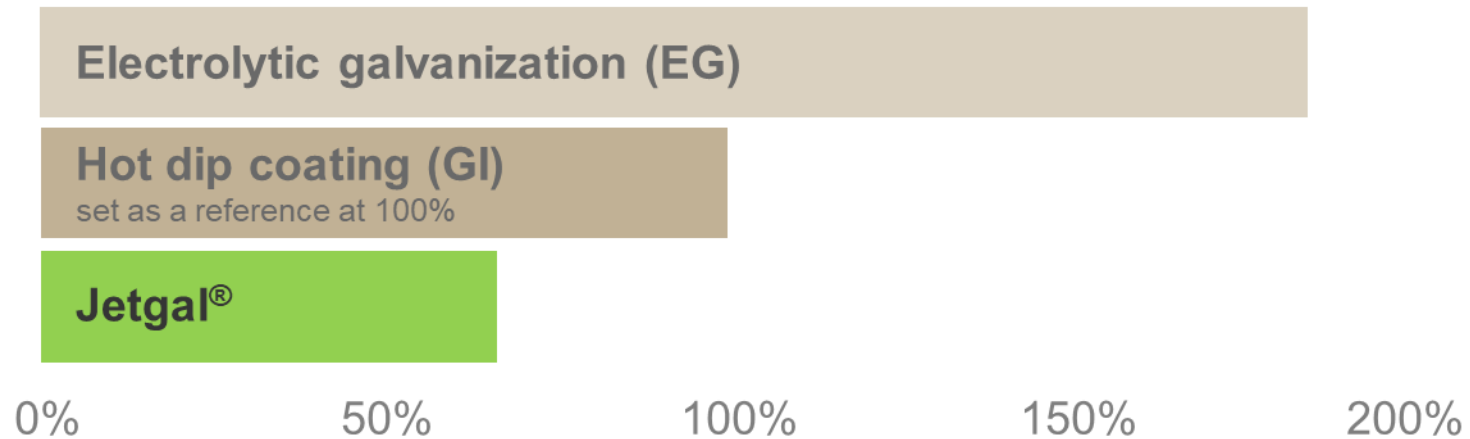


# Environmentally friendly production

## Jet Vapor Deposition

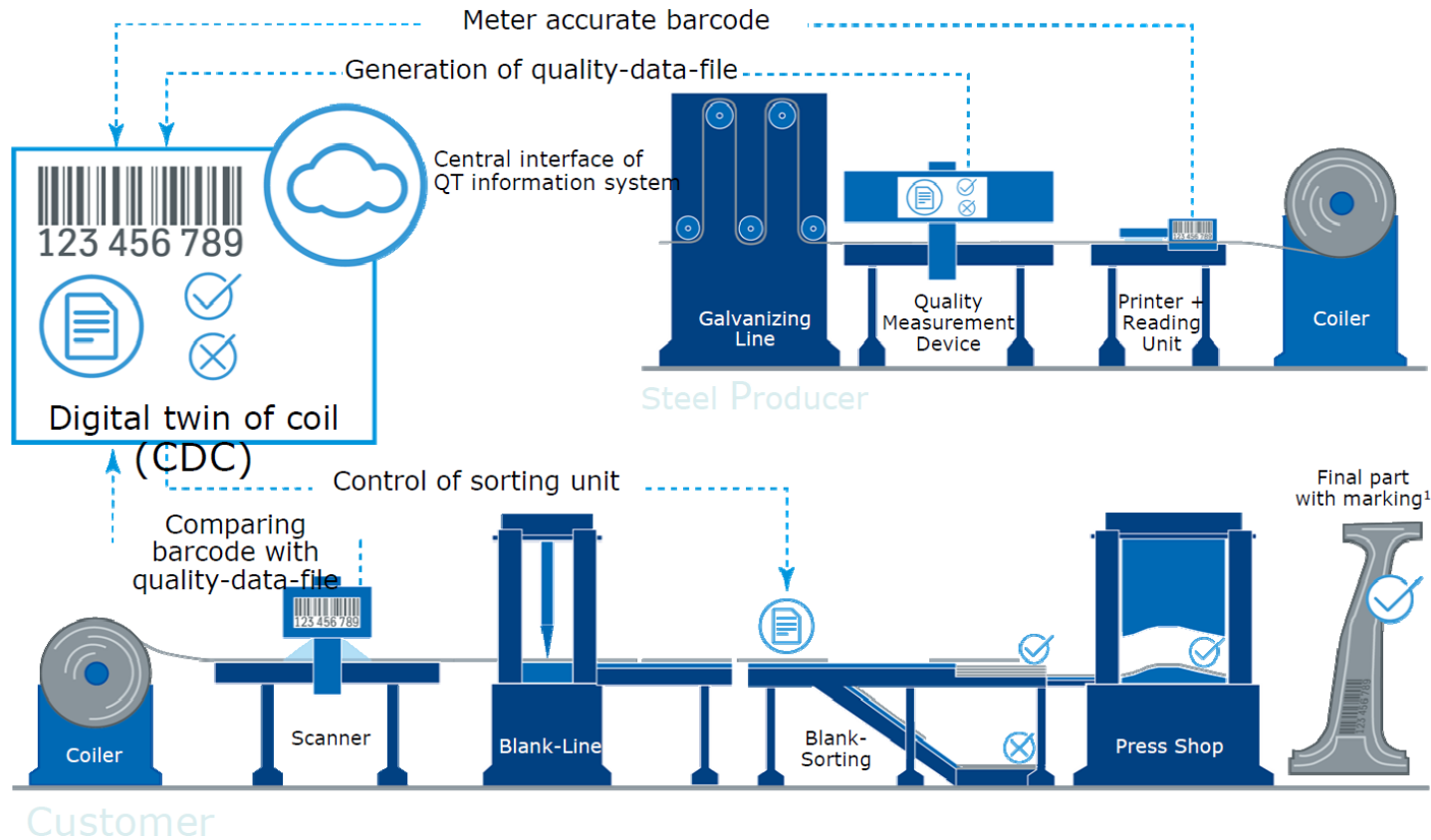


Relative contribution of coating step to Global Warming indicator:





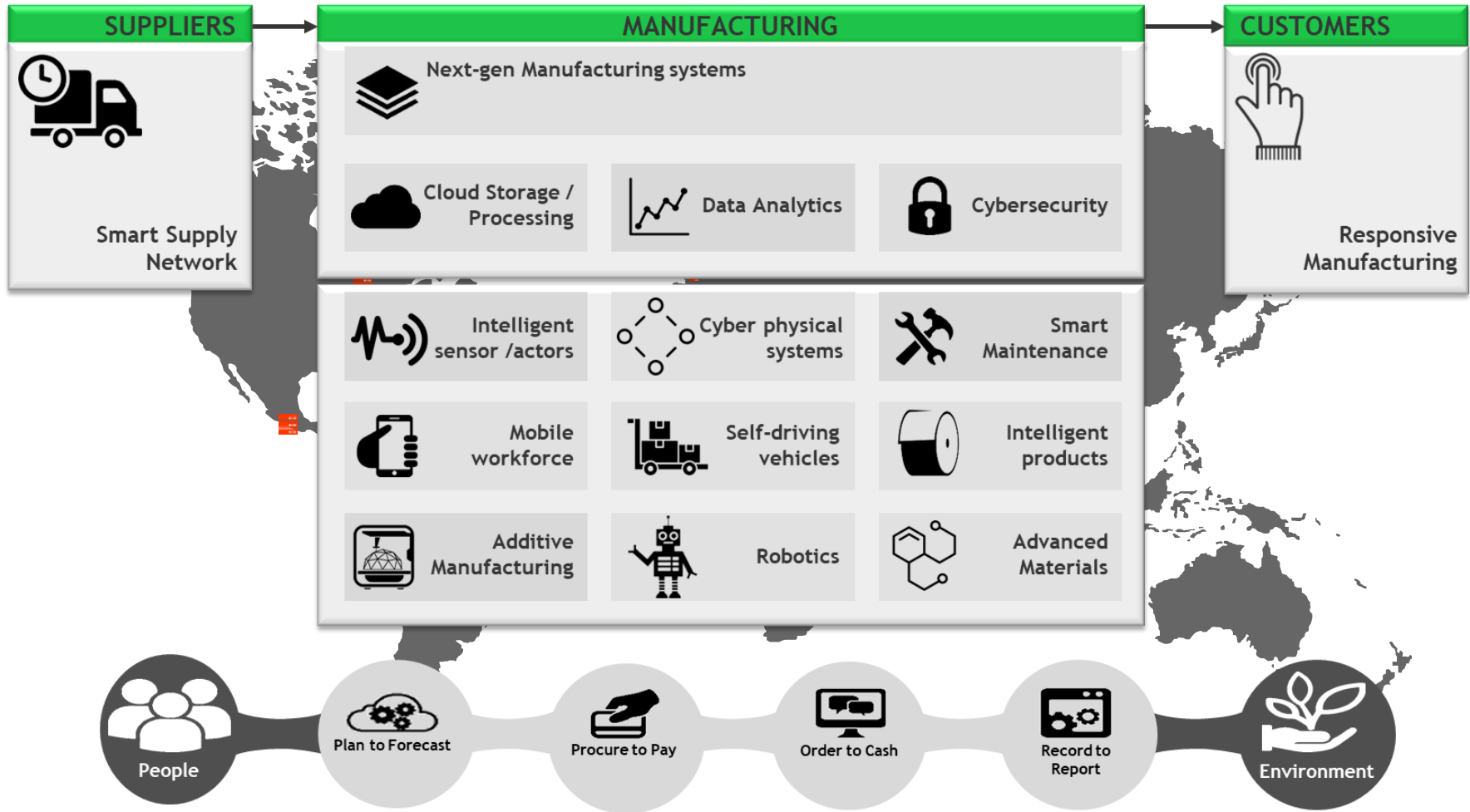
# Consistent Repeatable product to Customer







# One fully digitalized Enterprise where everything is connected



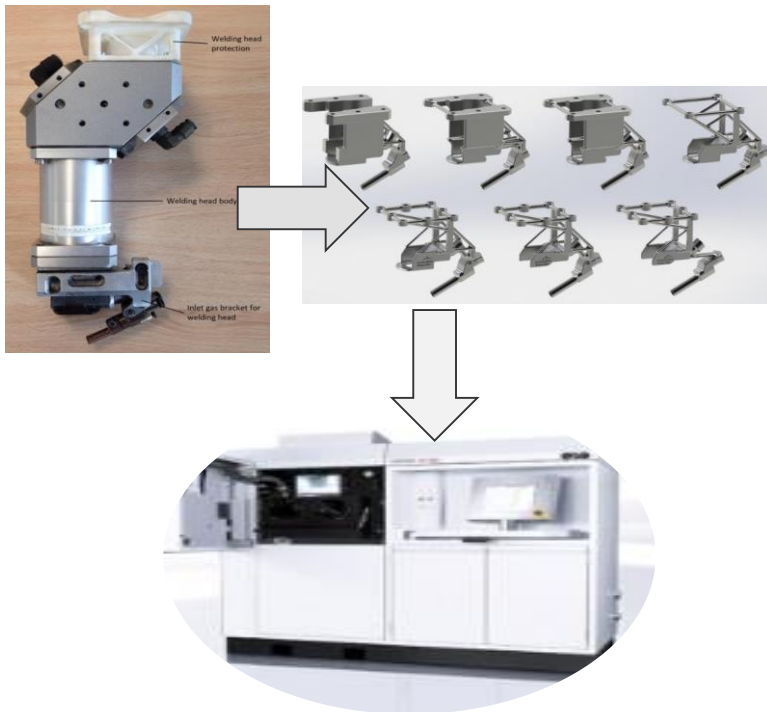
Safe, Intelligent, Efficient handling.....



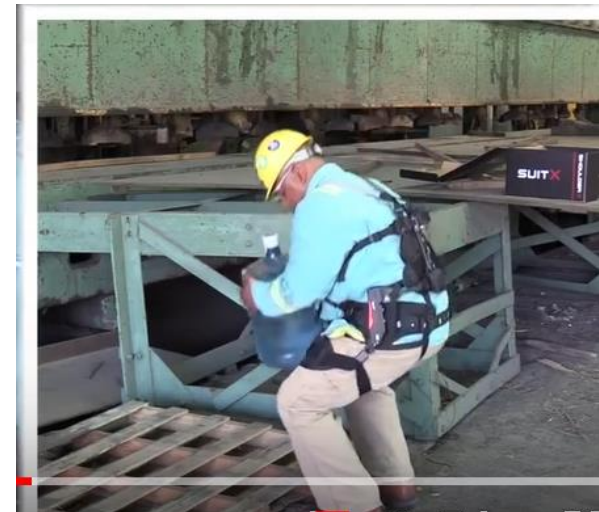


# Leveraging emerging technologies.....

## 3 D Printing



## Exoskeletons





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Thank you

**Sustainable Manufacturing**  
*in the age of*  
**Digitalization**

