

# **Manufacturing-X International**

Brussels, February 10th, 2025

Thomas Hahn / Siemens



# Why? Why Data Transparency is needed?



#### **Example: Carbon Footprint**

- ~10% of CO2 emissions from industry generated by own factories, ~90% by upstream/downstream supply chain <sup>1)</sup>
- To reduce CO2 emissions, transparency along the entire value chain is necessary

1) depending on production

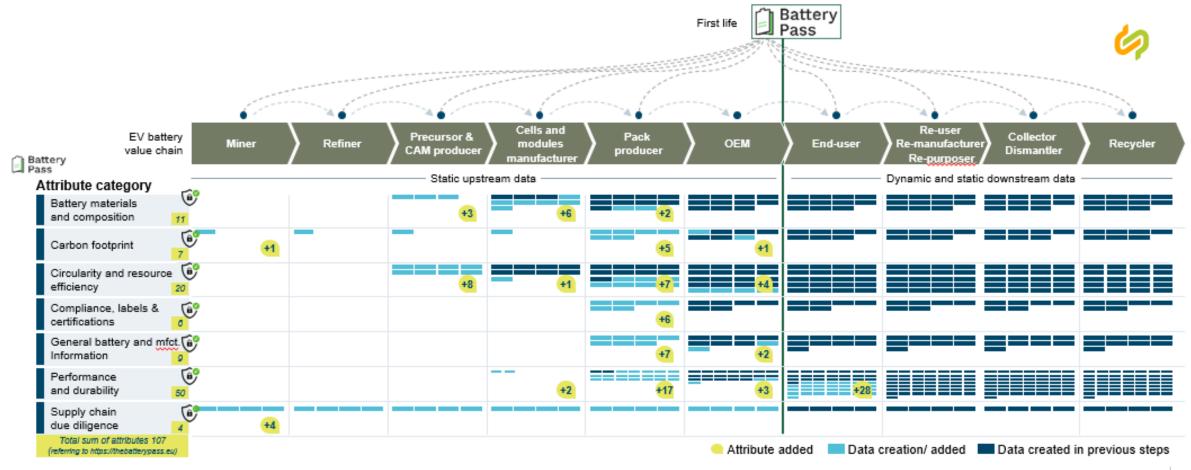
### **Example: Battery production**

- Only if we use the potential of digitalization we can produce batteries more sustainably
- ~ 96% of the ingredients of a battery are recyclable
- Consistent and transparent use of digital twins along the complete cycle the design and production will be more sustainable





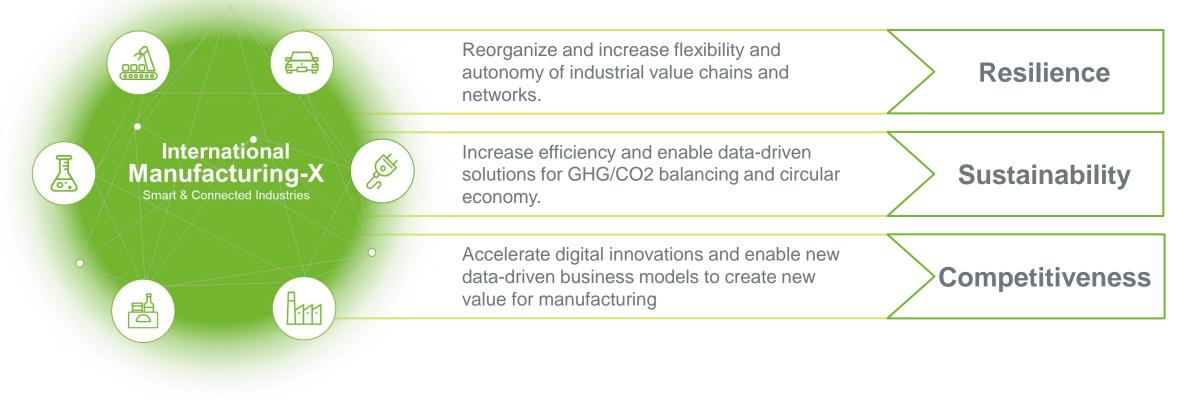
# Example Battery Passport



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#### Motivation & Big Picture International Manufacturing-X (IMX): Make Data Work

IMX will implement a federated, decentralized and collaborative data ecosystem for smart manufacturing. Open, global and cross-industry, following FAIR Data Principles.





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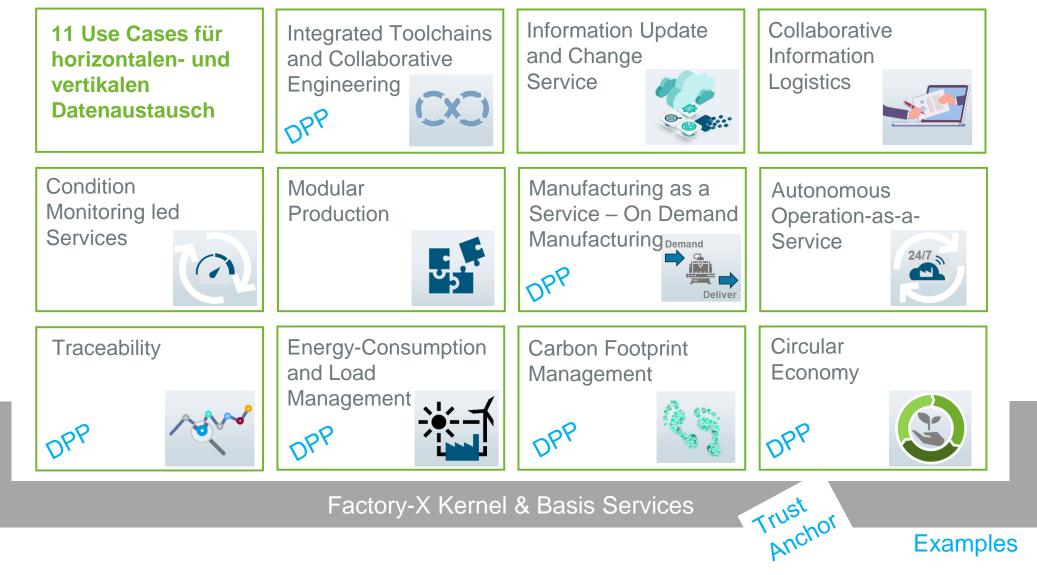
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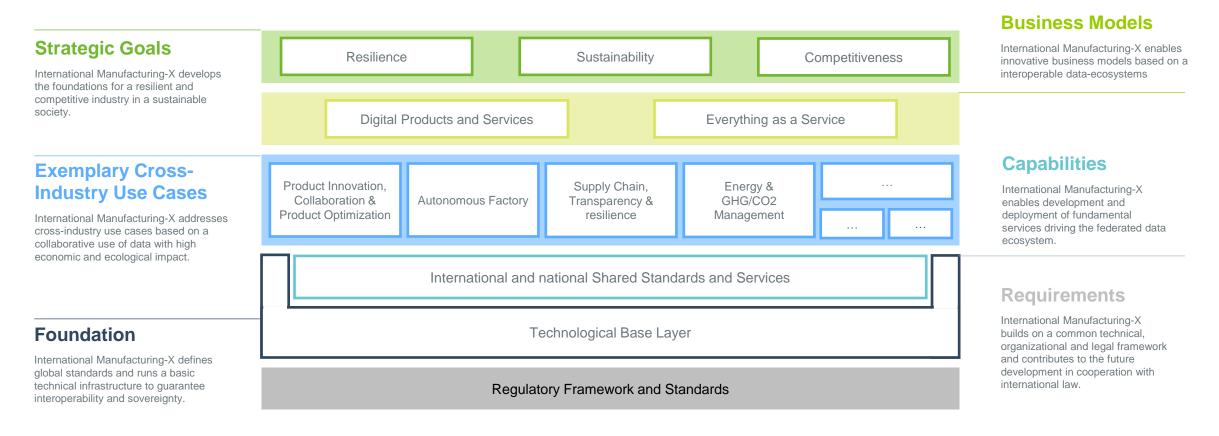
### **Factory-X Industry Use Cases**

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# Motivation & Big Picture Foundational Framework for IMX

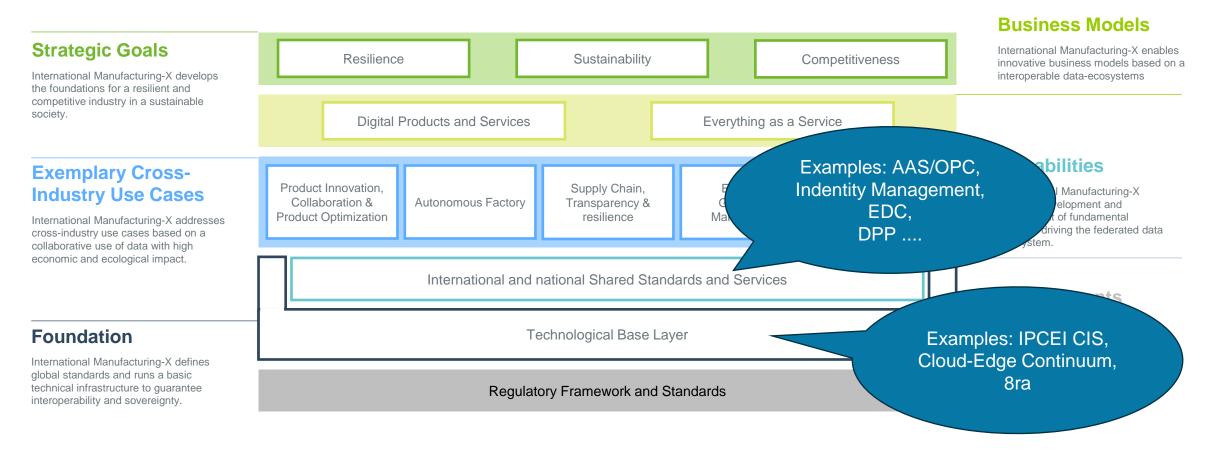
A common guideline for IMX activities and international stakeholders.





# Motivation & Big Picture Foundational Framework for IMX

A common guideline for IMX activities and international stakeholders.





### Who? Initiatives Involved in Establishing the IMX Council INDUSTRIE4.0







### We have also to address "cross-vertical" cases ...



Digital economy can create positive impact for society ... secures existing business and competitiveness ... enables new, [cross-sector] business models (B2B andB2B2C) ... and needs to address –where needed- common standards



### International Manufacturing-X Council: Make Data Work



# Thank you!

