

# DATAWEEK<sup>24</sup>

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## International Manufacturing-X Council

12/03/2024 15:30–16:30 (CET)

Oscar Lazaro, Innovalia



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# International Manufacturing-X Council

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Why – What – Who – How



Why?

# Challenges and Opportunities for Global Manufacturing Industries

In light of increasing **digitalization** and the resulting requirements, manufacturing throughout the world is facing **unprecedented challenges** and **opportunities**. The **real and virtual world** will continue to **coalesce**. The **entire value chain** will be **integrated and supported by digitalization**, from product, production and process design to on-site customer service and circularity – across locations as well as company and national boundaries.



Deployment needs customization across an infrastructure continuum from cloud to edge, depending on the applications.



Information sharing and data-driven collaboration among manufacturing initiatives across the supply network are becoming more relevant for impactful manufacturing data networks.



Harmonized standards facilitate business scale-up of data ecosystems, which are becoming essential.

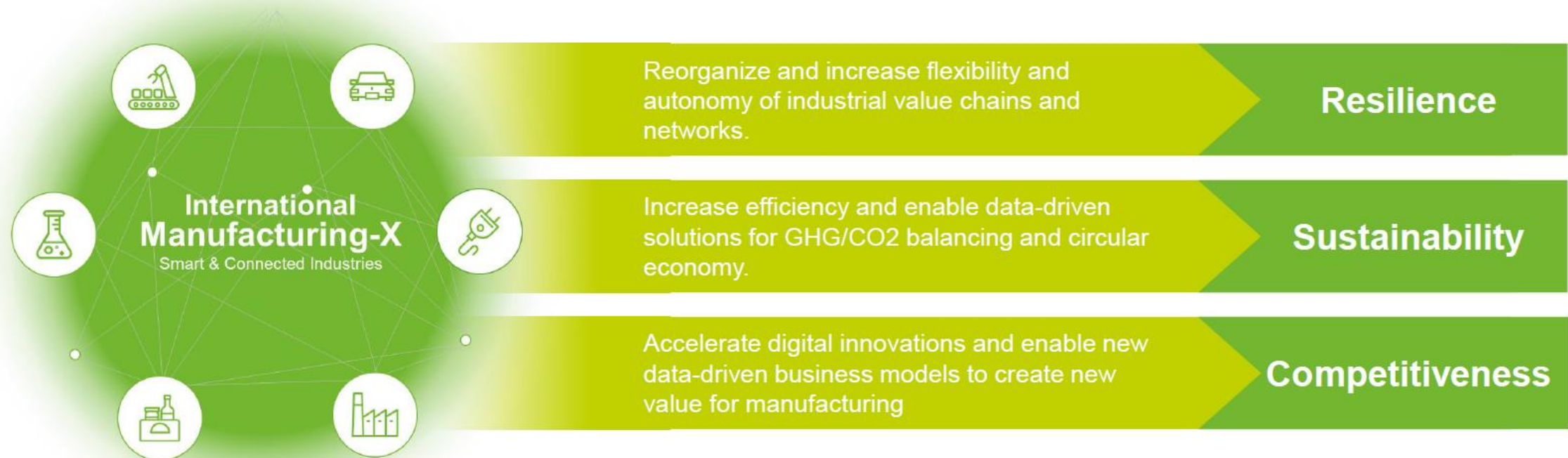
No country, no initiative, no company can achieve this on its own!



Motivation & Big Picture

## International Manufacturing-X (IM-X): Make Data Work

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



# Motivation & Big Picture

## Foundational Framework for IM-X

A common guideline for IM-X activities and international stakeholders.

### Strategic Goals

International Manufacturing-X develops the foundations for a resilient and competitive industry in a sustainable society.

Resilience

Sustainability

Competitiveness

Digital Products and Services

Everything as a Service

### Exemplary Cross-Industry Use Cases

International Manufacturing-X addresses cross-industry use cases based on a collaborative use of data with high economic and ecological impact.

Product Innovation, Collaboration & Product Optimization

Autonomous Factory

Supply Chain, Transparency & resilience

Energy & GHG/CO2 Management

...

...

...

Shared Services

Shared Technological Base Layer

Regulatory Framework and Standards

### Business Models

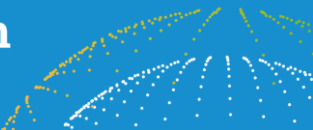
International Manufacturing-X enables innovative business models based on a interoperable data-ecosystems

### Capabilities

International Manufacturing-X enables development and deployment of fundamental services driving the federated data ecosystem.

### Requirements

International Manufacturing-X builds on a common technical, organizational and legal framework and contributes to the future development in cooperation with international law.



## Motivation & Big Picture

# Landscape of Initiatives in the Context of global manufacturing

Manufacturing-X is international. Our intention is to trigger international R&D, partnerships, cooperation, standardization and deployment with and for customers globally.





Vision

## The Threefold Vision Behind IM-X



1. Connect value chains and manufacturing data networks across industries and countries.



2. Implement global foundations for data-driven resilient, sovereign and climate-neutral production covering the full life cycle of production and products.



3. Enable innovative value creation in an interoperable and sovereign data ecosystem.



## Mission

# The IM-X Mission: Make Data Work at a Global Scale, Across Industries and Stakeholders

IM-X will implement a **federated**, **decentralized** and **collaborative** data ecosystem for smart manufacturing. It aims to enable **open**, **global** and **cross-sector** international operation of **cost-effective** data networks.

This can be realized through **3 main lines of activity**:

1.

Facilitate use cases on the collaborative use of industrial data for all manufacturing industries.

2.

Develop the requirements, influence international standardization and framework development for basic infra-structure to deploy federated data-ecosystems for manufacturing.

3.

Provide guidelines to leverage easy-to-use applications and dynamically scale the ecosystems.





How?

## Establishing the International Manufacturing-X Council



International Manufacturing-X Foundational Meeting  
14<sup>th</sup> February 2024, Paris

Open collaboration, inclusiveness, transparency and equal treatment of all the partners inside this international Manufacturing-X ecosystem are key!

The **International Manufacturing-X Council** will determine collectively what is needed, what to do and who is responsible.

**One Country, One Vote**



Who?

## Initiatives Involved in Establishing the IM-X Council



Call for participation

## International Manufacturing-X Council: Make Data Work

Hartelijk dank

Thank you!

*Muito obrigado*

*Merci beaucoup*

ありがとうございました。

Σας ευχαριστώ πολύ

*Tack så mycket*

Dziękuję bardzo

Grazie mille

Vielen Dank!

Köszönöm szépen

*Mange tak skal du have*

Ďakujem veľmi pekne

감사합니다

Muchas gracias

Děkuji mnohokrát



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# Thank you!



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