



Brainport Industries

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Managing Director



Brainport
Industries

5 Priority themes



1. COOPERATE IN INTERNATIONAL PRODUCTION NETWORKS



2. SOCIAL TRANSITIONS AND SUSTAINABILITY



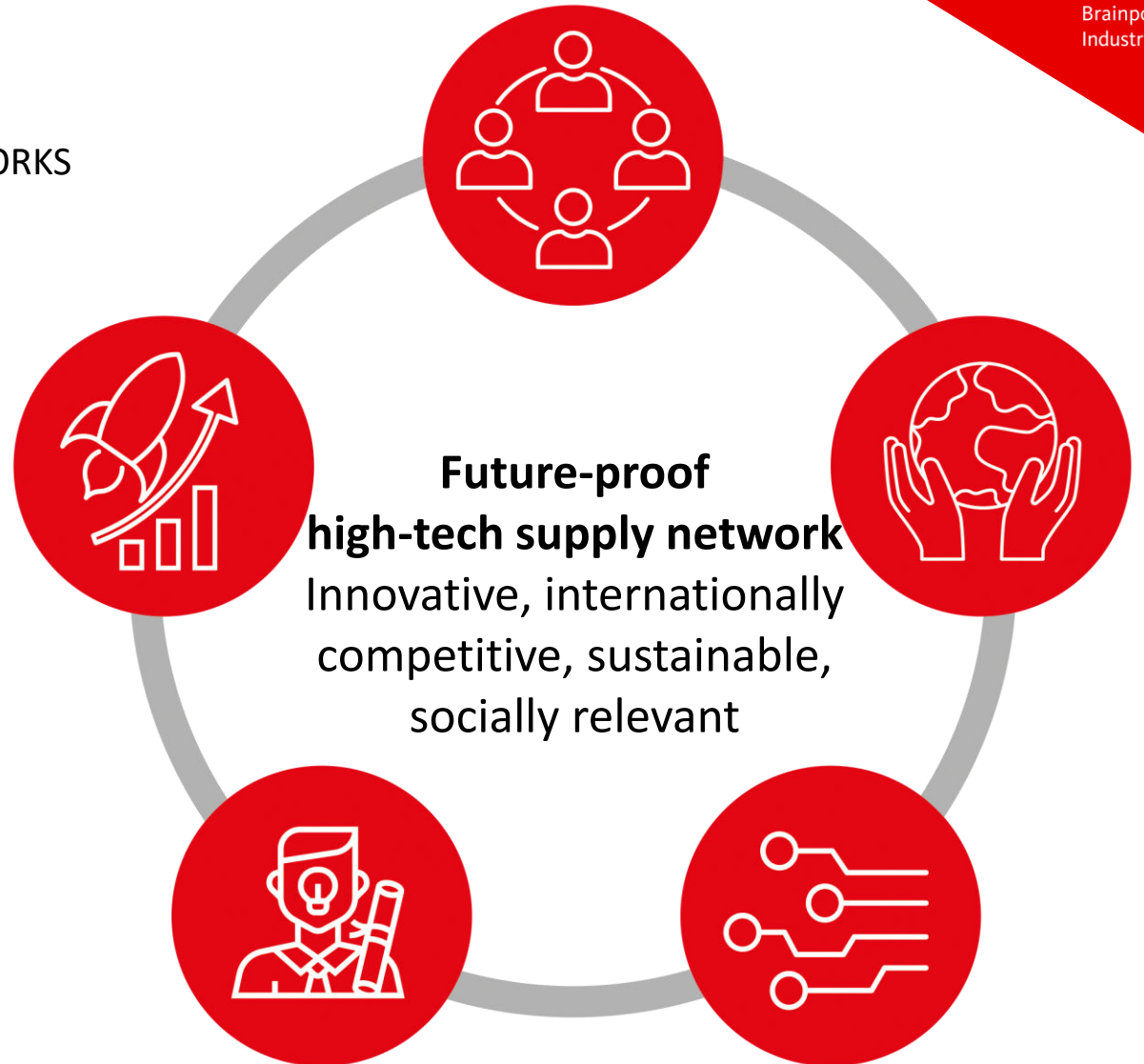
3. DIGITISATION AND PRODUCTION TECHNOLOGY



4. HUMAN CAPITAL



5. ACCESS TO GROWTH AND WORKING CAPITAL



125 Members – February 2024



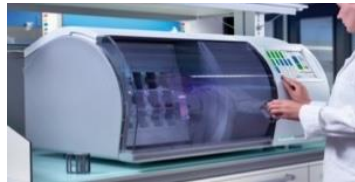
Market focus of Brainport Industries

High mix – low volume – high complexity

Semicon



Medical



Analytical



Printing

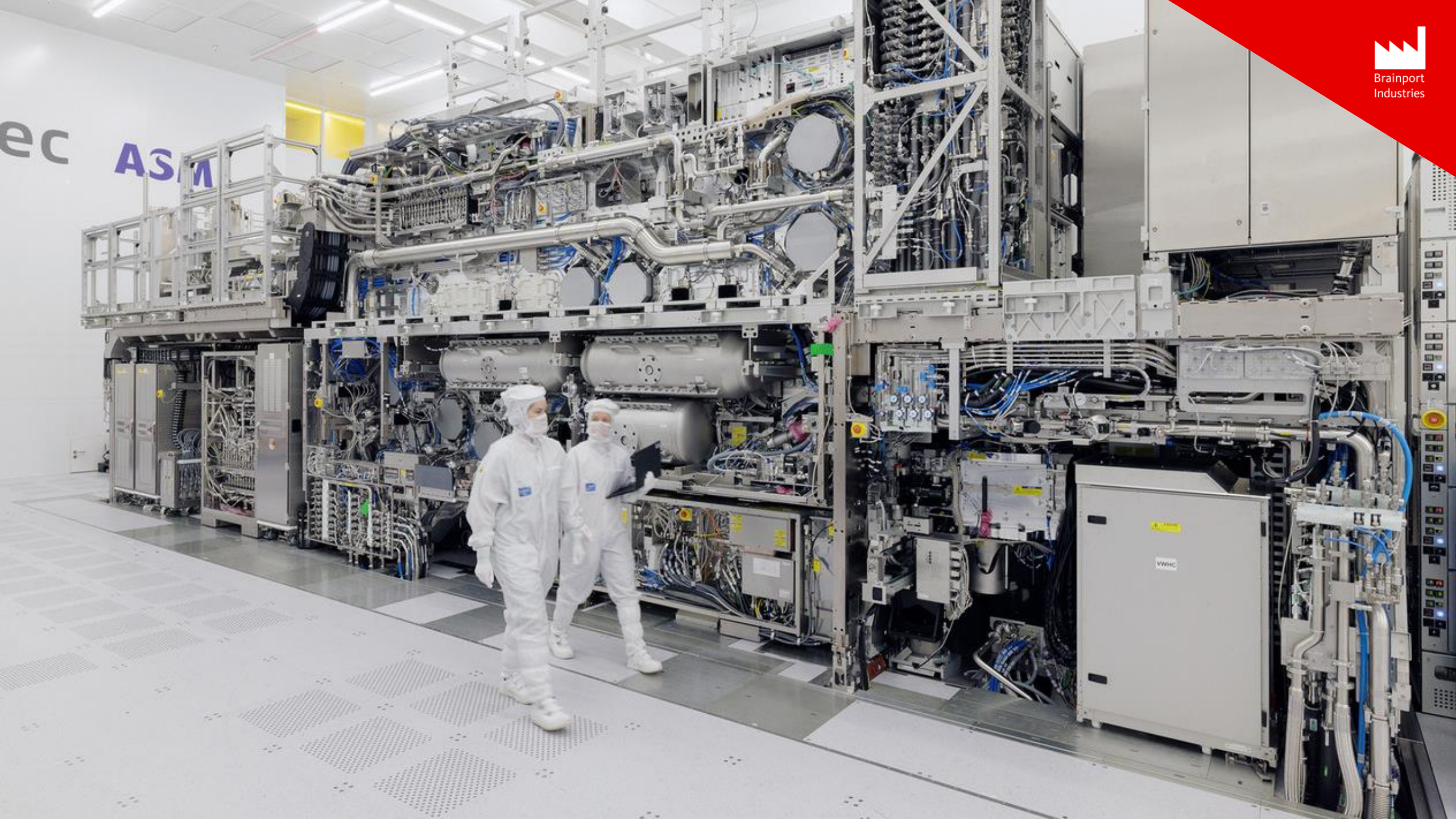


Energy

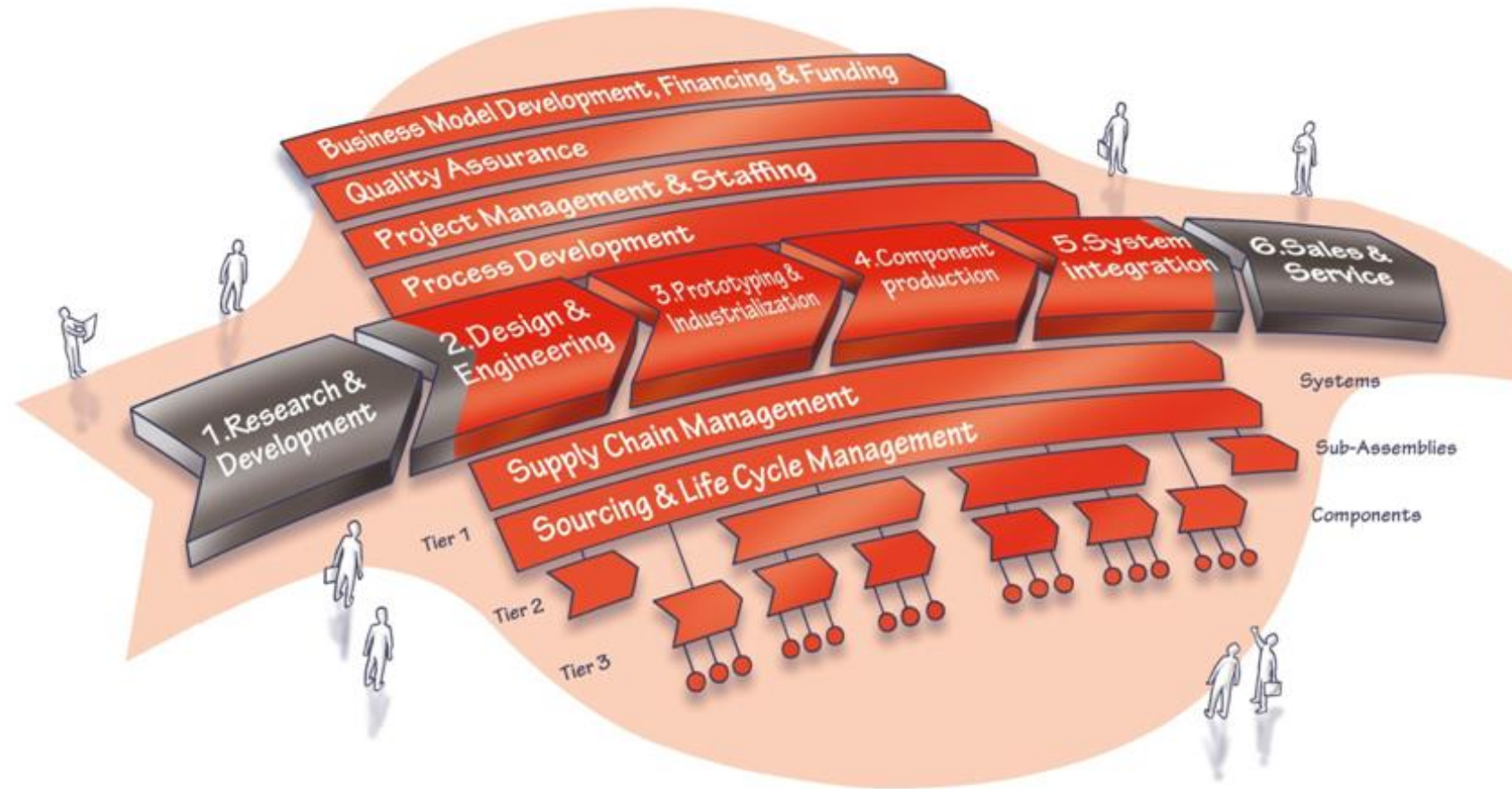


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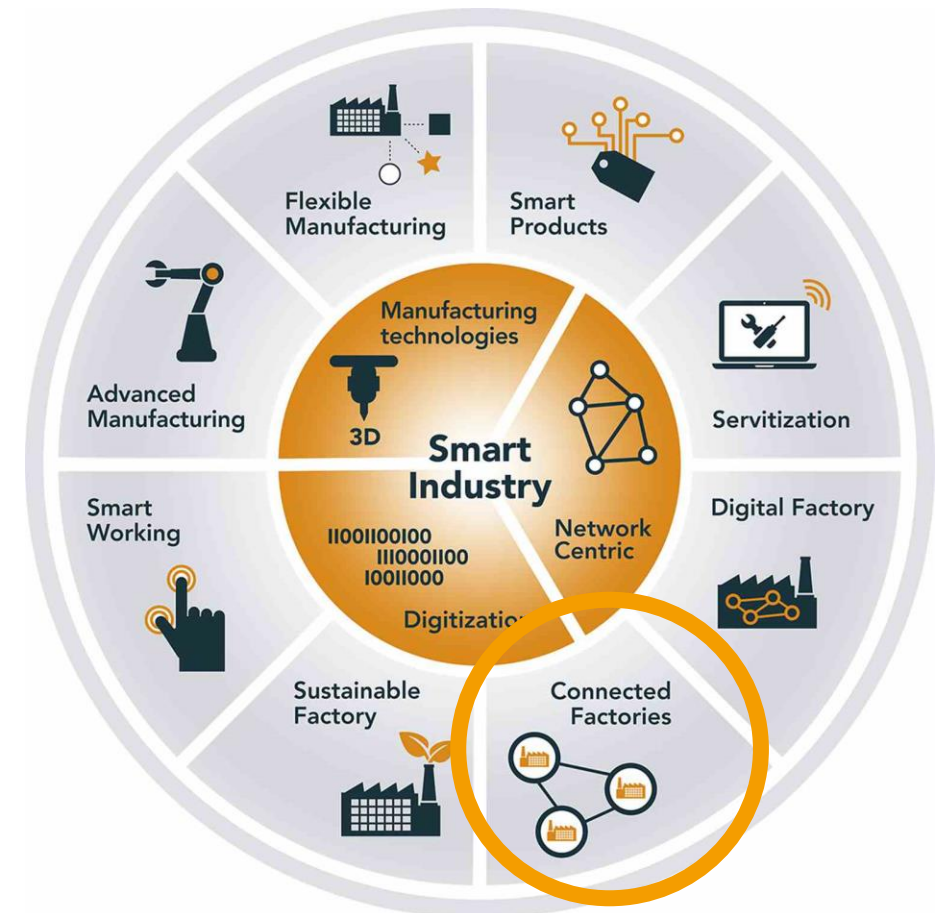
Brainport Industries' Open Supply Network



Connected Factories

Data sharing in the manufacturing industry

- Connected Factories is one of the 8 Smart Industry transformations.
- Safe and secure data sharing in the manufacturing supply chain is the main focus
- The **Smart Connected Supplier Network** aims to achieve this.



Connected Factories

- It becomes increasingly important to collaborate in the supply chain
- Especially for the low volume, high mix, high complexity industry
- Sharing data is crucial!



Problem: different systems, standards, and semantics...

Cause: manual error-prone administrative work, inefficiency, slower time-to-market ...

Our aim: build the world's smartest network of high-tech suppliers – driven by data

- **Improved efficiency**
 - Reducing the administrative burden
- **Increased resiliency**
 - Reducing errors
 - Provide the necessary visibility on potential bottlenecks
- **Improved agility**
 - Reducing the time-to-market: respond faster to changes
 - Reducing the time-to-money

**SC
SN** smart
connected
supplier
network

Currently consisting of +/- 300
manufacturing companies
active in high-tech supply networks

Virtually integrated network of
specialized independent companies

One-stop-shop for high-tech OEMs

How does it work?



Service Providers:

- Digital platforms, interconnected using IDS
- Independent 'address book' for routing communication
- Several providers. Choose the most suitable for your business



Manufacturing companies:

- One-time integration with own ERP system
- Registration in the SCSN address book



ERP systems:

- A manufacturing company can choose their preferred ERP system.



Manufacturing data space

The infrastructure is based on the **International Data Spaces Reference Architecture Model 3.0 (IDS-RAM3)** and adopts the **four-corner model**.

The **Foundation SCSN** facilitates generic functionality:

- **Address Book** based on the IDS Broker and Parls in order to publish and find the connected manufacturing companies.
- **Identity Manager** and **DAPS** in order to ensure trusted identities of all participants.

The **Service Providers** facilitate end-user connectivity:

- Each service provider has a **Hybrid IDS Connector** to interconnect the end-users.
- The service providers **integrate the connector** with the end-users' IT systems such as ERP systems.

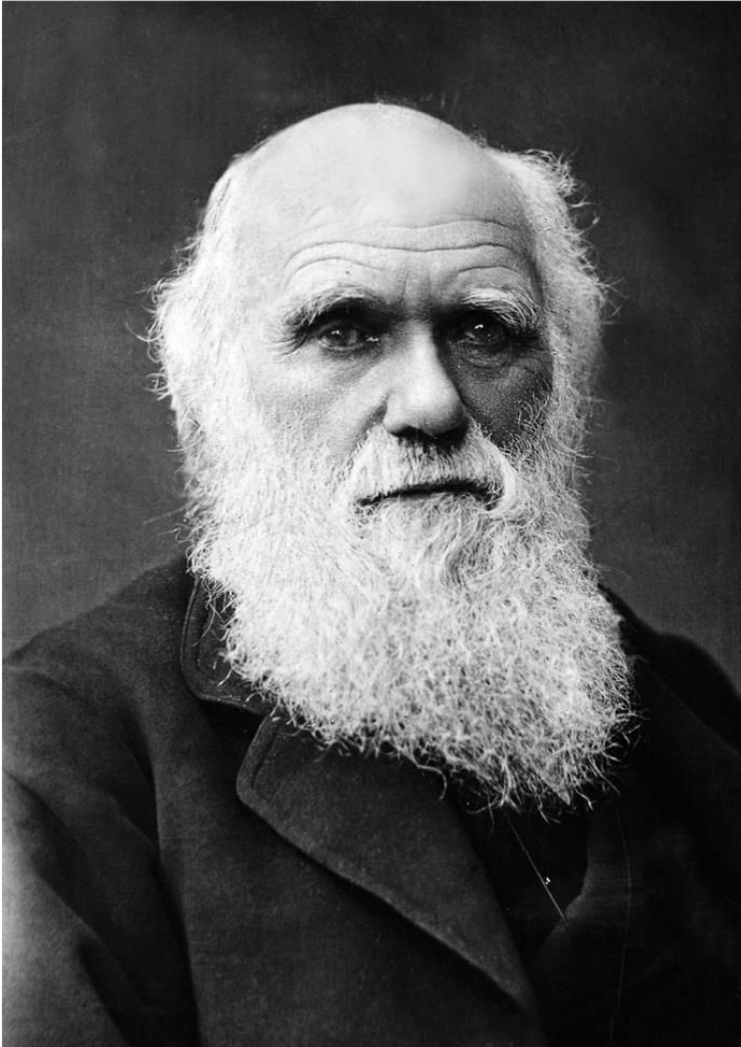


Open supply network – Take Aways

- The overall competitiveness of individual companies, OEMs and suppliers, is highly driven by the performance of the entire value chain and network.
- To remain competitive in a strong international playing field, collaboration for the high-tech manufacturing industry is essential.



Charles Darwin



It is not the strongest nor the most intelligent of the species that survives but the one that is the most adaptable to change.

Thank you for your attention



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