

The Robot Revolution and Industrial IoT International Symposium 2022

— Manufacturing as the Foundation of All Industries — —全ての産業の基盤としての製造業—

Day2 Leaders Dialogue:

Collaborative System of PSSs as a Social Infrastructure 社会インフラとしての製造業のサービス化 (PSS: Product Service System)

Oct.12, 2022

Robot Revolution and Industrial IoT Initiative
Co-Chair, WG1, Naohiko Irie

Based on the introduction of trends in each region and the discussion of Day 1, we will identify the principles of manufacturing as a social infrastructure in the digital age that supports sustainable development and have the resilience for changes

日、米、欧の各地域の動向を紹介いただき、Day1の議論も踏まえ、持続的な発展を支え、かつ変化への対応力を備えた社会インフラとしてのデジタル時代の製造業の原則を見出します。



Prof. Dr. Henning Kagermann
(Chair of the acatech Board of Trustees, former acatech
President Global Representative & Advisor to the Plattform
Industrie 4.0)



Mr. John Dyck
(CEO, Clean Energy Smart Manufacturing Innovation Institute)



Mr. Kiyoshi Mizukami
(Industrial IoT Advisor, WG1, RRI)

- Discussion1: Recognition of Issues
課題認識
- Discussion2: Possible approach by Manufacturing Industry
課題解決に向けた製造業の在り方
- Discussion3: Collaborative System of PSSs
as a Social Infrastructure
社会インフラとしての製造aaS
- Q&A from audiences
- Closing: Expectations for Japan/RRI and conclusions
日本/RRIへの期待 & 結び

Change Surrounding the Manufacturing Industry

Decarbonization

Rapid change in power mix



脱炭素

電源構成の急激な変化

Disaster/Pandemic

Large fluctuations in demand



災害・パンデミック

需要の大幅な変動

Supply chain disruption

Increased delivery risk



サプライチェーン分断

納品リスク増大

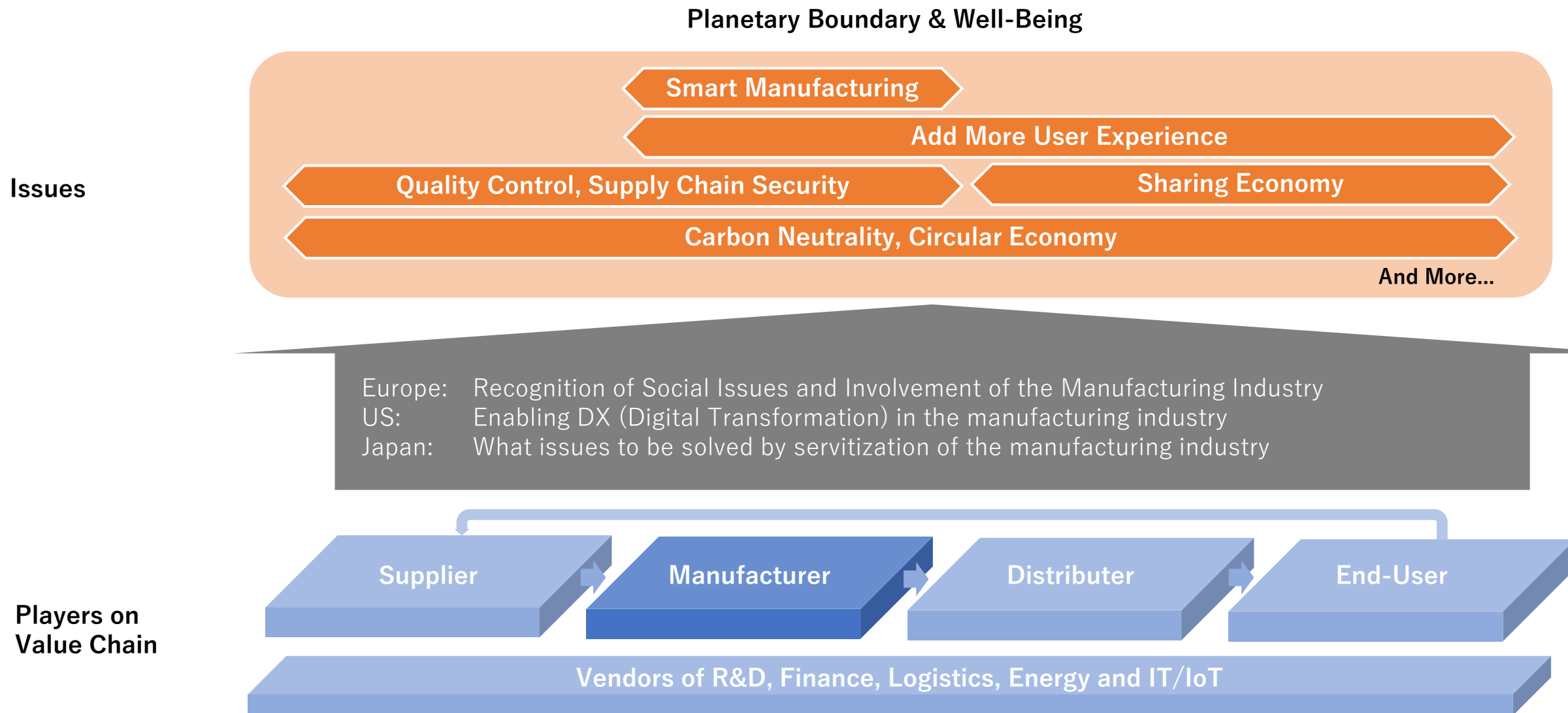
Digitalization

Increased security risk



デジタル化

セキュリティリスク増大



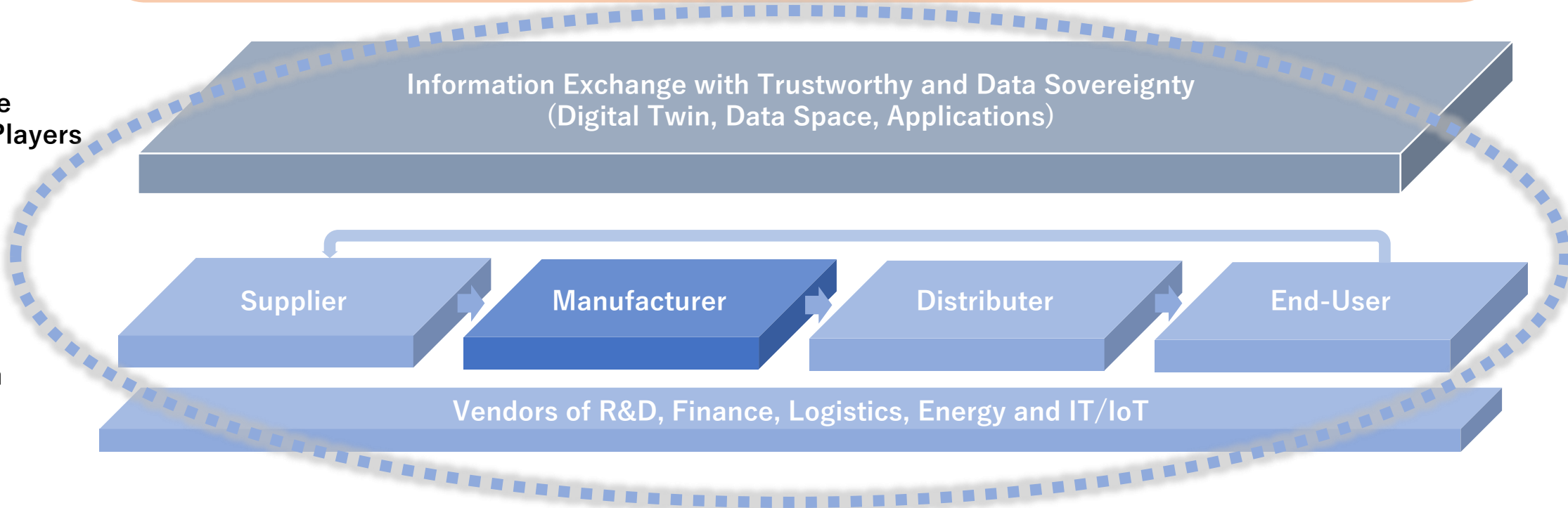
Discussion2: Possible approach by Manufacturing Industry

Planetary Boundary & Well-Being

Issues



Virtual Space
to Connect Players



Players on
Value Chain

Discussion3: Collaborative System of PSSs as a Social Infrastructure

人間本位の産業を目指して

“Connected Industries”

New vision for the future of Japanese industries

Planetary Boundary & Well-Being

Issues

Efforts in Europe, the US, and Japan toward PSS / manufacturing as a social Infrastructure

- Data Spaces
- CESMII SM Platform
- Necessity/direction of international cooperation
- Suggestion / Idea to Japan / RRI

And More...

Other Industries

Energy

Mobility

Food

Natural Resources

And More...

製造aaS : "Collaborative System of PSSs as a Social Infrastructure"

Players on Value Chain

Supplier

Manufacturer

Distributor

End-User

Vendors of R&D, Finance, Logistics, Energy and IT/IoT

ロボット革命・産業IoT国際シンポジウム 2022

～ 全ての産業の基盤としての製造業 ～

[Day 3]

日独専門家フォーラム

2022.10.13 Thu 17:30 – 19:20

主催

ロボット革命・産業IoTイニシアティブ協議会

共催

経済産業省、ドイツ 経済・気候保護省（Day3：日独専門家フォーラム）