Session 2

Harmonizing Smart Manufacturing Standards with Use Cases

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Smart Manufacturing

Flexible horizontal & vertical integrations among life cycles (value chains): business, product, production

Entities can talk each other intelligently.

Standardization mandatory!
Scenario and Use case

Top-down/Bottom-up Approach

Possible future business scenarios

Technical use cases

New products, solutions, services & Standardization requirements

IIRA: Industrial Internet Reference Architecture

Relationship among IIRA Viewpoints, Application Scope and System Lifecycle Process
1. Ulrich Löwen, Siemens: Practical application of openAAS (open Asset Administration Shell)

2. Toru Ishikuma, Azbil: Value-Based Service From Usage Viewpoint to Functional Viewpoint

3. Youichi Nonaka, Hitachi: Clarifying and Assisting Smart Manufacturing Standardization with URM-MM
1. Most important messages and keywords by the panelists
2. Importance of standardization: Customer benefits
3. Importance of standardization: Who makes What for Whom?
4. Future of smart manufacturing and standardization