Public-private collaboration and RRI (Robot Revolution Initiative) for Connected Industries

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Contents

Role of RRI in Connected Industries

Toward Human-centric Industries

"Connected Industries"
New vision for the future of Japanese industries

Autonomous Driving / Mobility Service

Manufacturing / Robotics

Biotechnology / Material

Plant / Infrastructure Maintenance

Smart Life

Source: METI

Basic Policy of RRI

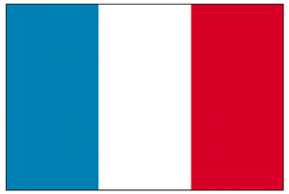
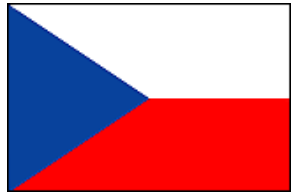
-- We, the private sectors should consider to change our manufacturing business

-- Japan has rich and high quality real-side data

⇨ Can contribute to the world in a unique way

International Collaborations Overview

with Europe

with U.S.

International Standardization

IEC

ISO

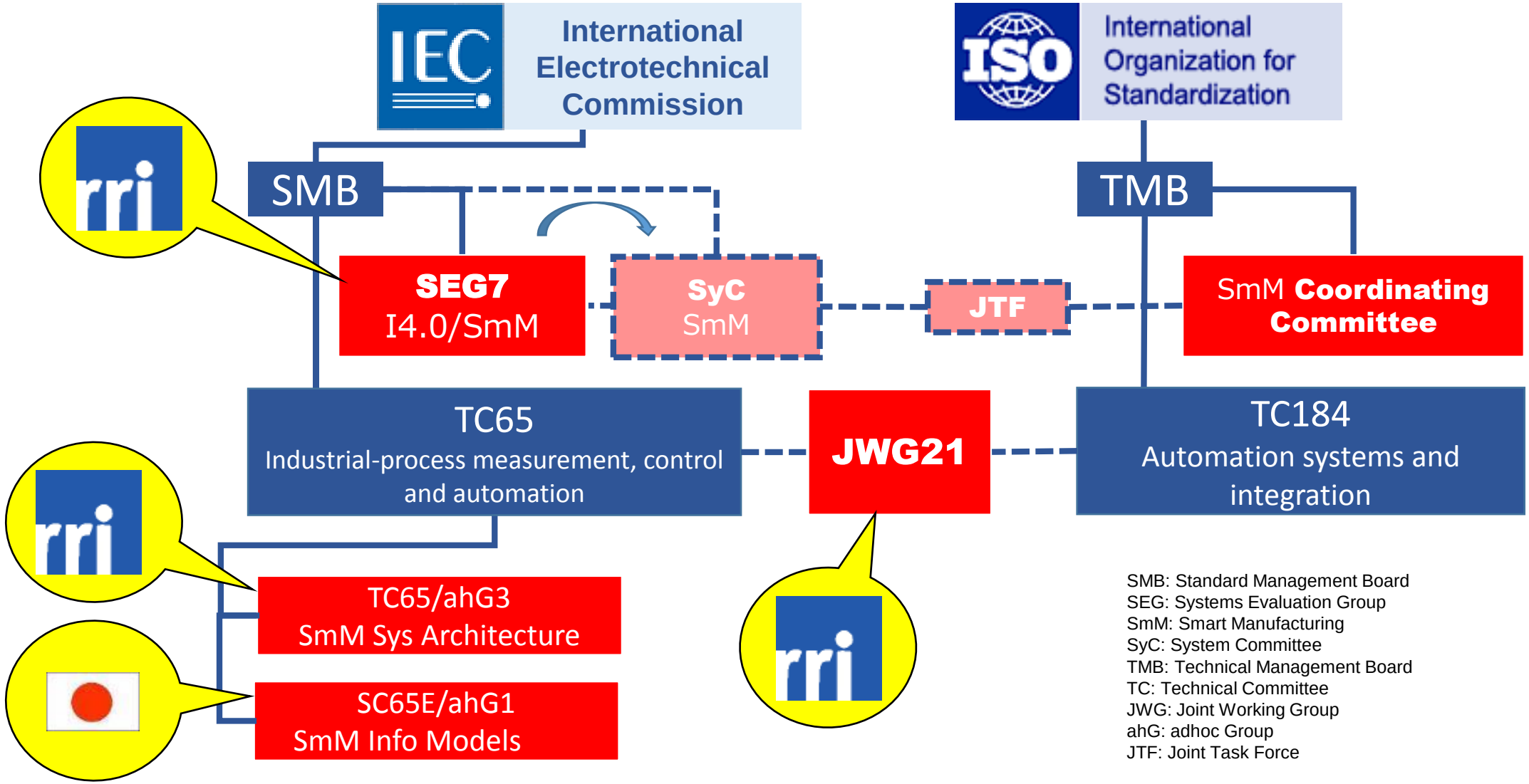
International Symposia

Exhibitions

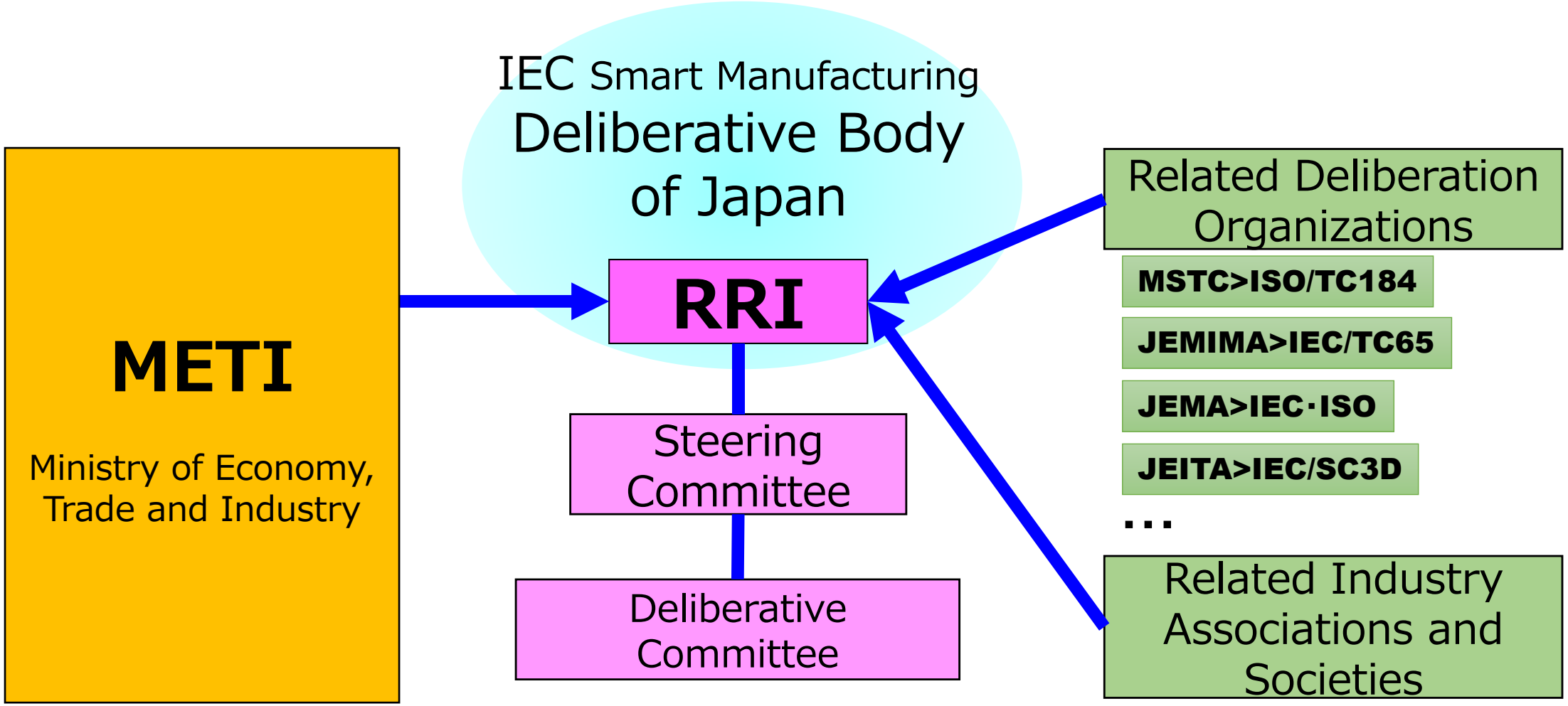
HANNOVER MESSE

CeBIT

Major Standardization Activities



IEC Smart Manufacturing activities in Japan



Building of Nationwide Network

Toward Human-centric Industries

"Connected Industries"
New vision for the future of Japanese industries

Collaborations with Related Organizations

- Industry Associations
  - Electric
  - Machine
  - Information
  - Electronics
  - User / Operation Technology
- Learned Societies
- SME Supporting
- Cross-cutting / Other related organizations

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Industrial Security （Hypothesis of IIR）

- It is impossible to avoid cyber attacks if legacy devices are included
  - Invaded by unknown thread -> 97% of enterprises
  - Average days to detect invasion -> 205
  - Malware that cannot be detected by anti-virus software -> 55%
- Need to consider quick recovery after attack detection
- Consideration in following fields are necessary
  - Legal (including data usage)
  - Enterprise / Organization
  - Supervisory system (including self/third party certification, etc.)
  - Standardization
  - Technology

Still hesitating to connect?

Our Background

"Connecting with other companies" is not yet very easily accepted

-- Experience that companies have gained by competing with many other companies for long time

-- Experience that companies have gained by not connecting and differentiating from other companies

Need to understand that the current situation does not allow us to deny the "value of connecting" any longer

Expectation to Today's Symposium

WORLD ECONOMIC FORUM

MADE IN CHINA 中国制造 2025

INDUSTRIE4.0

ロボット革命イニシアティブ協議会
Robot Revolution Initiative

industrial internet CONSORTIUM

Future image of Manufacturing and Service with IIoT

Harmonizing Smart Manufacturing Standards with usecases

Extracting Industrial Security Issues with usecases