Dr. Koji Yasui

Senior Chief Technologist Mitsubishi Electric Corp.

- 1982: joined Mitsubishi Electric Corporation
- 35 years+ in R&D and Management in Mitsubishi Electric Corporation
 - Roles as Researcher, R&D Manager as well as factory manager and corporate strategic manager
 - Providing automation solutions including industrial processing machines
- Leading roles in state-run technology projects
 - "Photonics and Quantum Technology for Society 5.0," supported by Cabinet Office and QST
 - COI program "A center for innovation using coherent photon technology" supported by MEXT and JST
- B.S. and Ph.D. degrees in applied physics from the University of Tokyo
- Visiting scientist at Stanford University in 1989

Netherlands



Netherlands-Japan Smart Industry Expert Meeting

Status and Ambitions of Smart Industries in Japan

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2. Road map and goal image

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Road map has been shared to show that \sim 2021 should be the key year

Ref: Japanese-German Center Berlin: "The future of Manufacturing: Industrie 4.0 in China, Germany and Japan," 2017. Koji Yasui; "Smart Era: Recovery from the coronavirus crisis, New Industrial revolution and new world," ASIN: B088R9RWKJ, Amazon Kindle, 2020. 8

2. Road map and goal image

Program to supply best solutions for industrial sites

Ref: https://www.qst.go.jp/book/list/book61.html

Ref: Smart Manufacturing Platform Japan (LinkedIn)

図1. 通常のブロードエリアタイブ半導体レーザーとフォトニック結晶レーサ

ーの違い.

2. Road map and goal image

3. Collaboration targets

Recent activities for collaborations with NL

1. Advanced technologies related to Photonics and EUVL Quantum-Photonics-Nanotechnology meeting on 8 July

2. Promote the development of hubs that can respond to the demands of the global markets

Questions from Japan side

Question 1: As smart manufacturing progresses, is there a risk that the control of the platformers represented by GAFA will increase? How do you think Japan and Europe, which depend on the U.S. as their platformer, should proceed?

Question 2: The risk of SMEs being left behind as smart manufacturing progresses has been well discussed in the Netherlands and Germany. In particular, there is an importance of cyber security measures, and I have heard that the Netherlands is also envisioning a trial of quantum computation-resistant communication as a concrete measure. What is the current situation in the Netherlands?

