

# Industrie 4.0, IoT and AI - Legal and Social Challenges

## German-Japanese Value Partnership

<b>Date</b>	Tuesday, March 21, 2017 10.00 - 14.00 h with topic specific networking
<b>Venue</b>	CeBIT 2017, Hall 3, Convention Center (CC), Messe, 30521 Hannover
<b>Language</b>	English with Japanese and German screens and webcasting
<b>Attendees</b>	approx. 250 participants (manufacturing industry, R&D, industry and trade associations, institutions, government, press)
<b>Registration</b>	Further Information about participation fee and registration will follow soon.



# Industrie 4.0, IoT and AI - Legal and Social Challenges

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### Event description

Industry 4.0, IoT and AI will replace decision and control of humans by “intelligent” machines controlled by networks and entrust possibly existential decisions to artificial intelligence. The enormous potential of freeing mankind from monotonous conductor tasks must be balanced by protection against the increasing danger of loss of essential control and freedom, which could ultimately annihilate the dignity of human beings and mankind as a whole. The huge legal and social challenges of this control revolution require that ultimate control is preserved for humans by human values. The eight principles proposed at the G7 meeting in Takamatsu/Japan in April 2016 have confirmed such need. This panel discussion intends to contribute to a German-Japanese Value Partnership to develop reliable answers.

### Opening

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| 10.00 h | Words of Welcome and Moderation <ul style="list-style-type: none"><li>• Marcus Schürmann, Delegate of German Industry and Commerce in Japan</li></ul> |
| 10.05 h | Words of Welcome <ul style="list-style-type: none"><li>• Dr. Hans Carl von Werthern, Ambassador of the Federal Republic of Germany to Japan</li></ul> |
| 10.10 h | Words of Welcome <ul style="list-style-type: none"><li>• Yoshinori Fujiyama, Minister, Deputy Chief of Mission, Embassy of Japan to Germany</li></ul> |

### Keynotes

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| 10.15 h | <ul style="list-style-type: none"><li>• Shinji Tokumatu, Director, Ministry of Economy, Trade and Industry (METI)</li></ul>   |
| 10.30 h | <ul style="list-style-type: none"><li>• Dr. Wolfgang Scheremet, Director General, Industrial Policy Bureau, Federal Ministry for Economic Affairs and Energy (BMWi)</li></ul> |

### Coffee Break

10.45 - 11.00 h

### Legal and Social Challenges of Industry 4.0, IoT and AI

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| 11.00 h | <b>Introduction into the topic:</b> <ul style="list-style-type: none"><li>• Norio Murakami, Chairman, ENERES Co., Ltd</li><li>• Markus Janssen, Partner, Atsumi &amp; Sakai Janssen, Foreign Law Joint Enterprise</li></ul> |
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Defining the Challenge: How to realize the AI R&D Guidelines based on the eight principles proposed at the G7 meeting in Takamatsu/Japan in April 2016 by legally and socially responsible measures to control Industry 4.0, IoT and AI.

## Integrated panel presentation by IT specialist and legal team

11.10 h

- Rolf Lumpe, Partner  
Xona Partners
- Michael Mueller, Partner  
Mueller Foreign Law Office
- Takamasa Sasaki, CEO  
AOS Legal Technologies
- Dr. Joerg Kahler, Partner  
GSK Stockmann
- Frank Becker, Partner  
Atsumi Sakai Janssen RA GmbH
- Prof. Dr. Thomas Klindt, Partner  
Noerr LLP

An integrated team of lawyers and IT specialists has reviewed how to implement the eight principles proposed in AI R&D Guideline of Transparency, User Assistance, Controllability, Security, Safety, Privacy, Ethics and Accountability along concise legal and operational topics as

- Ownership of data, control of business relationships and contract law are in the hands of decision making “intelligent machines”, especially
- Civil and Criminal Liability of users and producers of robots for decision of their “intelligent machines”, responsibility and insurability of autonomous systems
- Privacy, Security & Ownership of data and freedom of its owners versus big data control
- Regulation and control of AI and cybernation of humans in comparison to ethical and legal control of human genetic engineering, and
- Labor Law and balance of interest of stakeholders with a robotized workforce

The team will present its results in a panel presentation searching for at least some of the right questions how to achieve the eight principles of the AI R&D Guideline, while at the same time ensuring innovation and economic development. Concise samples of issues and measures shall give an idea how those eight principles of the AI R&D Guideline could be realized in day to day business of Industry 4.0 and IoT.

On such basis, representative industry leaders shall give their feedback and input.

## Feedback and views by industry representatives

11.50 h

Björn Haan, CEO  
TÜV Rheinland i-sec GmbH

12.10 h

Tetsuya Shoji, President and CEO  
NTT Communications

12.30 h

Closing remark  
Tatsuhiko Shindo, Executive Vice President, JETRO

## Networking Buffet with “Topic Islands”

12.35 - 13.30 h    Open discussion rounds at 4 Topic-Islands

### Island 1

“Big data and innovation - how to balance with data protection and individual freedom”; information intended to create awareness of issues from liability and data security to milieu and future control - the power of planning the future and how to handle it.

#### Topic owner

XONA Partners, NTT Group and GSK Stockmann

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### Island 2

“Ethical limits for AI, IoT and autonomous machines” - from assuming responsibility for tragic conflicts in traffic up to challenges to human dignity and the temptations of virtual immortality, as “Singularity” and other phantasies of omnipotence of AI, to be prevented by common human values, as in case of genetic engineering.

#### Topic owner

ENERES, Atsumi Sakai Janssen, Mueller Foreign Law Office

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### Island 3

“The end of labour and/or the beginning of non-estranged work” - how to support and empower vast opportunities of self-employment by promotion and protection of small and micro business (as e.g. Virtual PCs at minimal cost for African micro businesses, or cutting edge AI on VPCs without additional hardware cost).

#### Topic owner

VPC Asia GK, AOS Legal Technologies, ASJ Rechtsanwalts-gesellschaft-mbH

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### Island 4

“Transformation of the Maker and *Monozukuri* to the Supplier of Functions and *Kinoh-Hatashi*”-preserving tradition by transformation. Business models supporting future alliances of German and Japanese SMEs.

#### Topic owner

ENERES, Atsumi, Sakai Janssen

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