




#### Project Details :

Start date: **June 1st 2017**

Duration: **24 Months**

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EUNITY (GA No 740507) receives funding from the @EU\_H2020 Research and Innovation Programme (H2020-DS-2016-2017/DS-05-2016).



Cybersecurity and Privacy Dialogue  
between Europe and Japan



Analysis of cybersecurity gaps  
and challenges of Europe-Japan

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## Cybersecurity challenges in EU-Japan

### Legal and policy challenges

#### Europe

- Cyber defense: lack of cooperation with police and third parties
- Criminal law: different law provisions and treaties amongst national entities
- AI, IoT, software: lack of security. Need for certification

#### Japan

- Increase number of specialized agencies. Lack of cybersecurity start-ups and researches for legal and policy topics
- Cross-fertilization: need to interoperate additional features of IT systems

### Research and innovation challenges

#### Europe

- Current threats: web-based attacks, spam, ransomware, botnets, ransomware evolution
- New frontiers: AI, IoT, Blockchain and cryptocurrencies
- Trust management in the digital society

#### Japan

- Cryptocurrencies: lack of expertise
- Cybersecurity education: lack of a crosscutting program for universities and research centers covering different areas
- Cybersecurity research: need to integrate non-technical fields in research areas

### Industry and standardization challenges

#### Europe

- Global cybersecurity and ICT market dominated by global suppliers from outside Europe
- European industrial policies not yet addressing specific cybersecurity issues
- Establishing standards and processes for deploying new technologies or business models

#### Japan

- Low mobility of experts across technology suppliers and adopters
- Making latest technology offers available to all type of companies (large, medium, small)
- Difficult for organizations to adopt cybersecurity naturally in their business

## Perspective of collaboration EU-Japan

### Legal and policy opportunities

- Common privacy framework for enabling personal data exchange
- Data protection framework for police and law enforcement cooperation
- Harmonization of IoT certifications for security standards
- Collaboration at governance level (European and Japan centralized institutions)
- Support of training for best practices and business optimization in public and private domains

### Research and innovation opportunities

- Joint education programs (online and on-site) together with exchange programs for students and employees
- Creation of international cyber-exercises
- Joint portal for sharing information about research and development projects in both areas
- Development of common cybersecurity intelligence and information exchange protocols and tools
- Creation of joint EU-Japan programs for conducting R&D&I projects on common topics

### Industry and standardization opportunities

- International cooperation for studying cybersecurity challenges and flow of cybersecurity information across borders
- Networks for exchanging knowledge and training for improving cybersecurity culture in companies
- Common data system between both regions for big data and IoT
- Develop a joint roadmap with a common process and priorities for ongoing international standardization work
- Joint collaboration for markets of cybersecurity solutions for SMEs

