Securing Europe's IoT Devices and Services

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aegis accelerating EU–US Dialogue in Cybersecurity and Privacy

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Project Context

- H2020 call DS-05-2016-2017 resulted in 3 CSA projects - Cyberwatching.eu, EUNITY project (EU-Japan) and AEGIS (EU-US) .

- Role of projects – To provide valuable feedback for EC upcoming policies and work programmes.

http://www.cyberwatching.eu/

http://www.eunity-project.eu/

http://www.aegis-project.org/

aegis
Project Scope

- Horizon 2020 CSA - Coordination & Support Action

- EU Cooperation and International Dialogues in Cybersecurity and Privacy Research and Innovation. **Strand 3. International dialogue with the USA**

- DG CONNECT - Cybersecurity & Digital Privacy – Unit H 1

- Main purpose - facilitate exchange of views, policies and best practices to stimulate EU – US cooperation around cybersecurity and privacy Research & Innovation (R&I), and contribute in shaping the future global cybersecurity and privacy landscape.

- 2 years duration: starting date 1 May 2017

The Consortium

Co-funded by the Horizon 2020
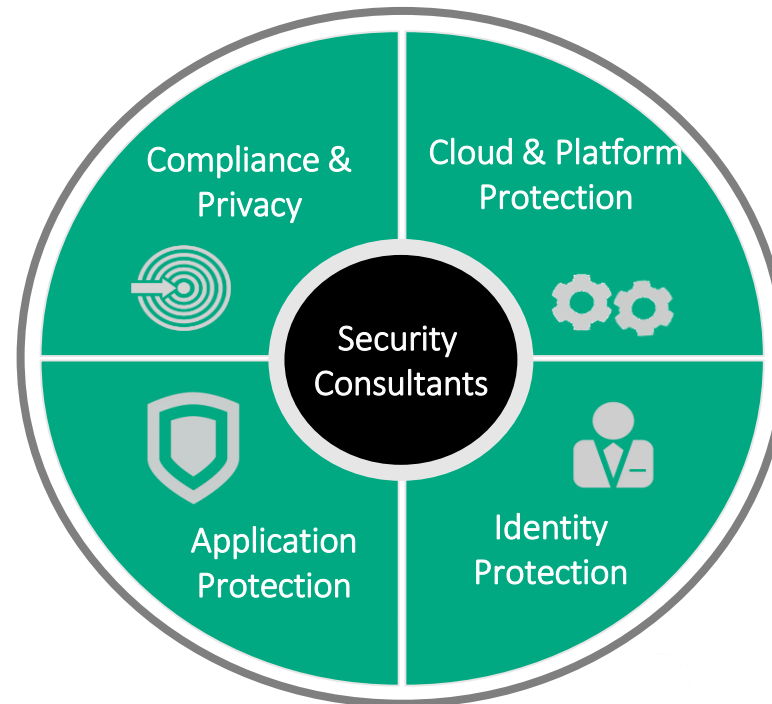Framework Programme of the European
Union

IT Assurance & Security Team

One page capability summary

Protect your digital enterprise, proactively protect and safeguard systems and data across any location or device

- **Compliance Management**
- **Risk Management**
- **SIEM and Log Management**
- **Governance and KPI**
- **Awareness & Training**
- **Privacy/GDPR Advising**

- Vulnerability Management
- Secure Software Development Lifecycle
- Secure DevOps
- Application Security Lab
- ERP Security

Compliance & Privacy

Cloud & Platform Protection

Security Consultants

Application Protection

Identity Protection

- Platform and Network protection
- Cloud/Hybrid IT Security
- NAC/BYOD/MDM
- Business Continuity
- Cyber Threat Intelligence
- SecOps and Incident Management

- Identity Lifecycle and Access Management
- Strong Authentication and Access Control
- Enterprise Key and Certificate Management
- Data Governance and Encryption
- Intelligent Video Surveillance
- Digital Signature
- Biometric Applications

![aegis logo]

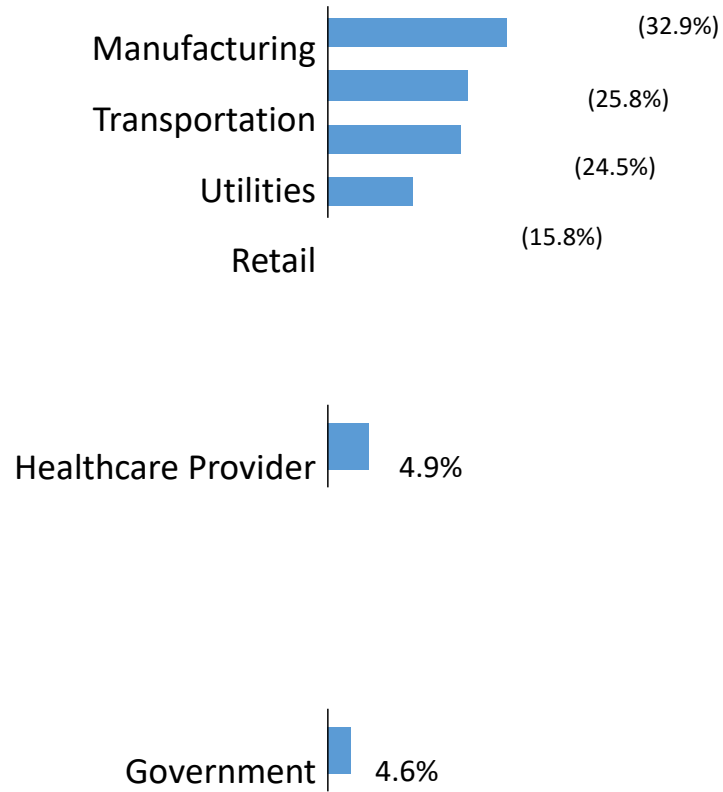# IOT landscape

Firms embark on DX to create value:
- *extend their competitive advantages*
- *improve customer experience,*
- *and increase operational efficiencies.*

Vertical Application Areas:
- *Smart Homes*
- *Smart Cities and Intelligent Transport*
- *Smart Grids*
- *Smart Cars*
- *Smart Airports*
- *eHealth and Smart Hospitals*
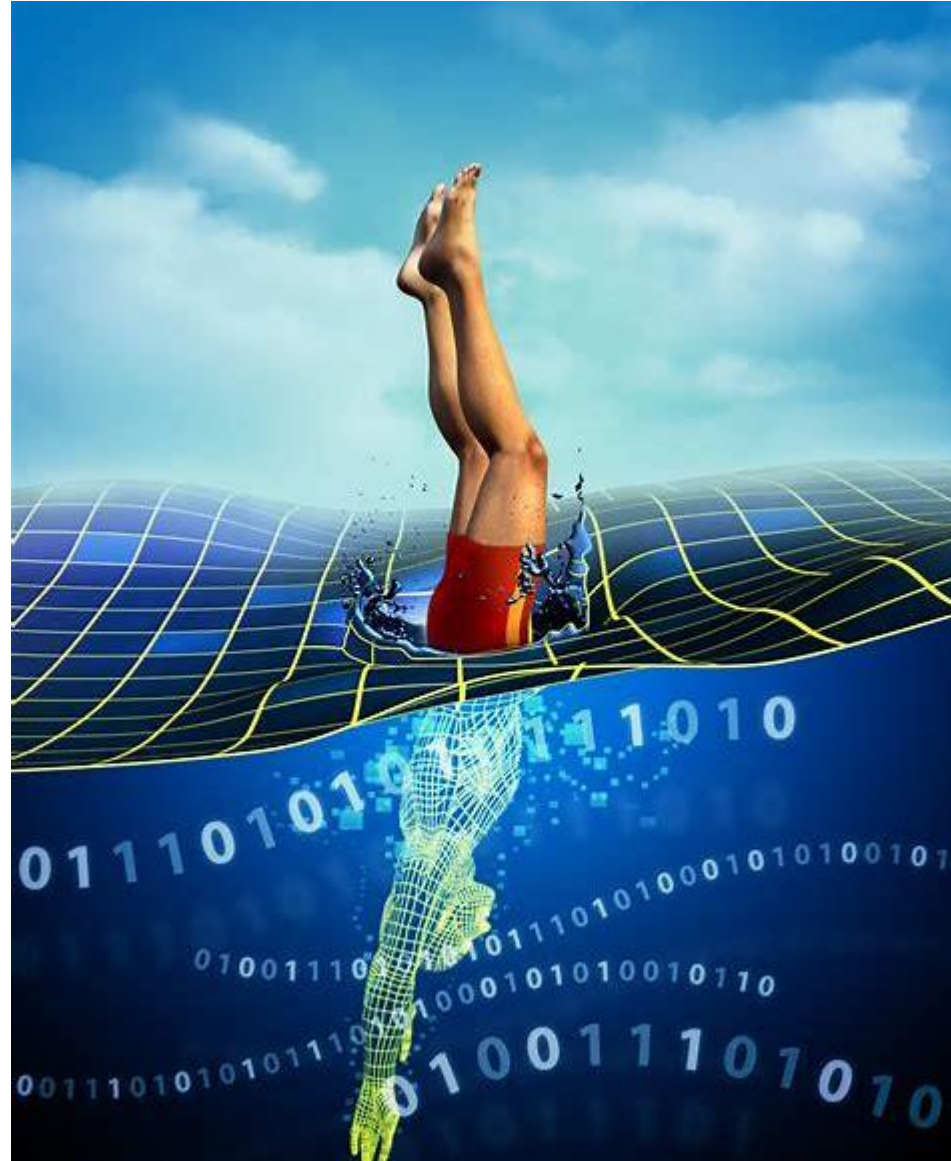- *ICS/SCADA*
- *etc.*

IOT landscape

Manufacturing	(32.9%)
Transportation	(25.8%)
Utilities	(24.5%)
Retail	(15.8%)
Healthcare Provider	4.9%
Government	4.6%

IoT Cybersecurity

Understand the impact an IoT Implementation might have on your security posture

Europe's related IoT Initiatives

- ENISA – European Network Information Security Agency
- CSIRT's Computer Security Incident Response Team – under NIS directive
- EC3 European Cybercrime Center – under EUROPOL AGENCY
- EDA – European Defence Agency
- XX-ISAC – EA-ISAC – Information Sharing Analysis Center
- J-CAT – Joint Cybercrime Action Taskforce
- others

Europe's IoT related Policy

- Mar 2015 Alliance for Internet of Things Innovation (AIOTI) – Industry driven
- May 2015 Digital Single Market (DSM) Strategy – fragmentation, interoperability
- Apr 2016 Advancing the Internet of Things in Europe - IOT numbering space
- Jan 2017 European data economy initiative -
- Sep 2017 Cybersecurity Act proposal - Standardization
- Sep 2017 Resilience, Deterrence and Defence: Building strong cybersecurity for the EU

ENISA
- Nov 2017 Baseline Security Recommendations for IoT

ENISA - Baseline Security Recommendations for IoT : Gaps Anakysis

- **Gap 1: Fragmentation in existing security approaches and regulations**

- **Gap 2: Lack of awareness and knowledge**

- **Gap 3: Insecure design and/or development**

- **Gap 4: Lack of interoperability across different IoT devices, platforms and frameworks**

- **Gap 5: Lack of economic incentives**

- **Gap 6: Lack of proper product lifecycle management**

IoT Cybersecurity landscape

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www.aegis-project.org