

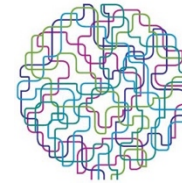


ITEM, NTNU
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This presentation is for

- Workshop 1 Big Data
- Workshop 3 Photonics and Micro-and-Nanoelectronics
- Workshop 2 Robotics
- Workshop 4** Internet of Things

NTNU and the Department of Telematics (ITEM)



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- NTNU has participated in more than 130 FP7 and 26 H2020 projects.
- The EU-R&D group at NTNU consists of dedicated personnel at a central level (8 dedicated employees)
- ITEM has 2 dedicated EU research advisors at faculty level

Current research activities include several national and international research projects, such as:

- [EU FP7 MC-ITN CleanSky](#)
- [EU H2020 MSCA-IF SINet](#)
- among [others](#)

Research Interests



ITEM actively collaborates with industry partners and research institutions in multi-disciplinary initiatives, focusing on the integration of ICT in innovative and state-of-the-art solutions.

Core research activities are represented by dedicated research labs, namely:

- [Quantitative modeling of dependability and performance lab \(QUAM lab\)](#)
- [NTNU Applied Cryptology Lab \(NaCl\)](#)
- [NTNU Internet of Things lab \(NINOT lab\)](#)
- [NTNU Intelligent Transportation Systems \(NTNU ITS lab\)](#)

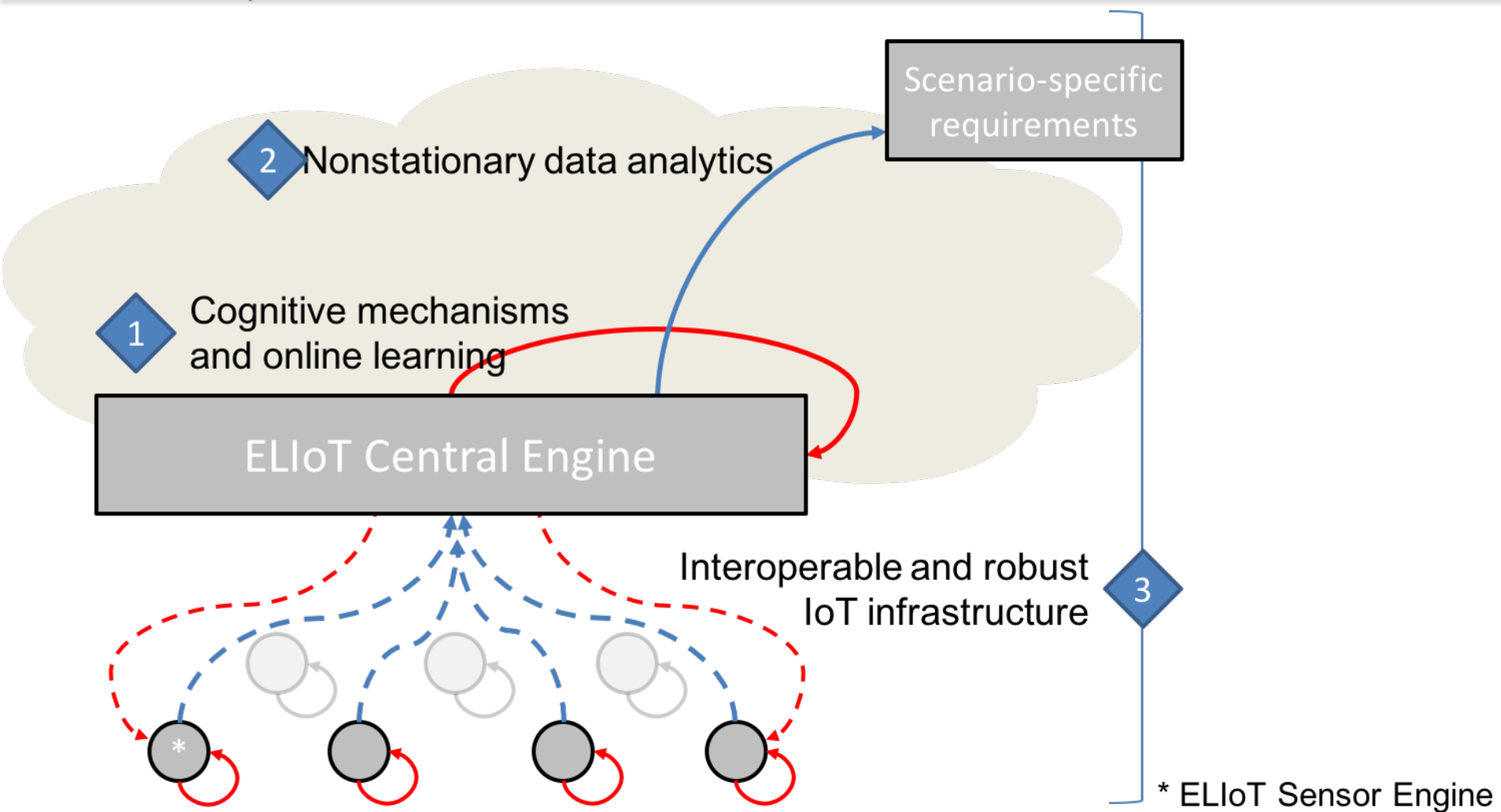
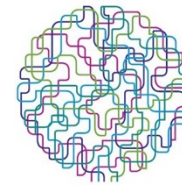
IoT-03-2017 (RIA) R&I on IoT integration and platforms EIIoT, Evolving and intelligent embedded devices for a



Large-scale, robust and secure Internet of Things

- Key objectives:
 - to enable cognitive mechanisms and online learning (e.g. deep learning) in IoT environments
 - to optimise big data quality and its acquisition in nonstationary large-scale IoT deployments
 - to define a modular, interoperable and secure intelligent infrastructure suitable for resource-constrained devices
- Expected key results
 - new models for online learning
 - improved mechanisms for nonstationary data analytics
 - innovative cyber-security solutions based on big data usage in the IoT
 - a proof of concept for an intelligent and configurable IoT infrastructure

- Autonomous intelligence
- - → Data converted into actionable intelligence
- Quality-assured Big data
- - → Domain-specific raw data



Consortium - profile of known partners



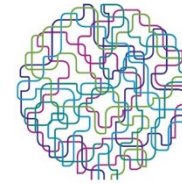
No	Partner Name	Type	Country	Role in the Project
01	NTNU	RTD	Norway	Coordinator, research
02	OneSource	SME	Portugal	Development and integration
03				
04				
05				
06				
07				
08				

Consortium - required partners



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No	Expertise	Type	Country	Role in the project
01	Machine-learning & Data analytics	SME / IND		Development and exploitation
02	Cyber-security	SME		Development and exploitation
03	HW&SW providers for IoT solutions	IND		Scenario and requirements motivation; Development & Tech. providers
04	Large-scale IoT deployments	IND		Scenario and requirements motivation; Development and exploitation
05	Integration and Evaluation in H2020	RTD		Research and Technological Development
06				
07				
08				



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Recommendations



- The presentation **has to** last up to **4 minutes (maximum)**
- Do not overload your slides
- Provide weblinks to additional material
- Slides should be in English
- Do not use videos etc. – they might be not supported by the Infoday IT system
- Send your presentation in PDF or PPTX format to: ICT@turkeyinH2020.eu
before November 21, 2016.