



EU-IOT CATALYST WP3

EU-IoT WP3 – Catalyst : Standardisation/Pre-standardisation Aspects

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WP3 – CATALYST - Global Goals



Overall: assisting the acceleration of the NGIoT initiative by engaging all target stakeholders in growing and strengthening a large-embracing ecosystem, while creating synergies among them.

- 1. Broader IoT Ecosystem - open platform for a sustainable human-centric IoT community:** To grow the NGIoT ecosystem and assist in partnership creation and stakeholders networking, via actions that facilitate and promote the direct engagement of relevant stakeholders, reaching out to new players and across different research and innovation communities.
- 2. Transfer and know-how exchange on open-source, pre-standardisation and standardisation activities:** To ensure development and adoption of innovative human-centric IoT concepts and solutions, fostering effective technology transfer and know-how exchange, while mapping NGIoT efforts into open-source, pre-standardisation and standardisation activities.
- 3. Engagement - community building, ecosystem shaping, acceleration** so as to contribute to the creation of a living and sustainable hub for all IoT initiatives in Europe.
- 4. Foster early adoption of products and innovative concepts,** by providing concepts to stakeholders.

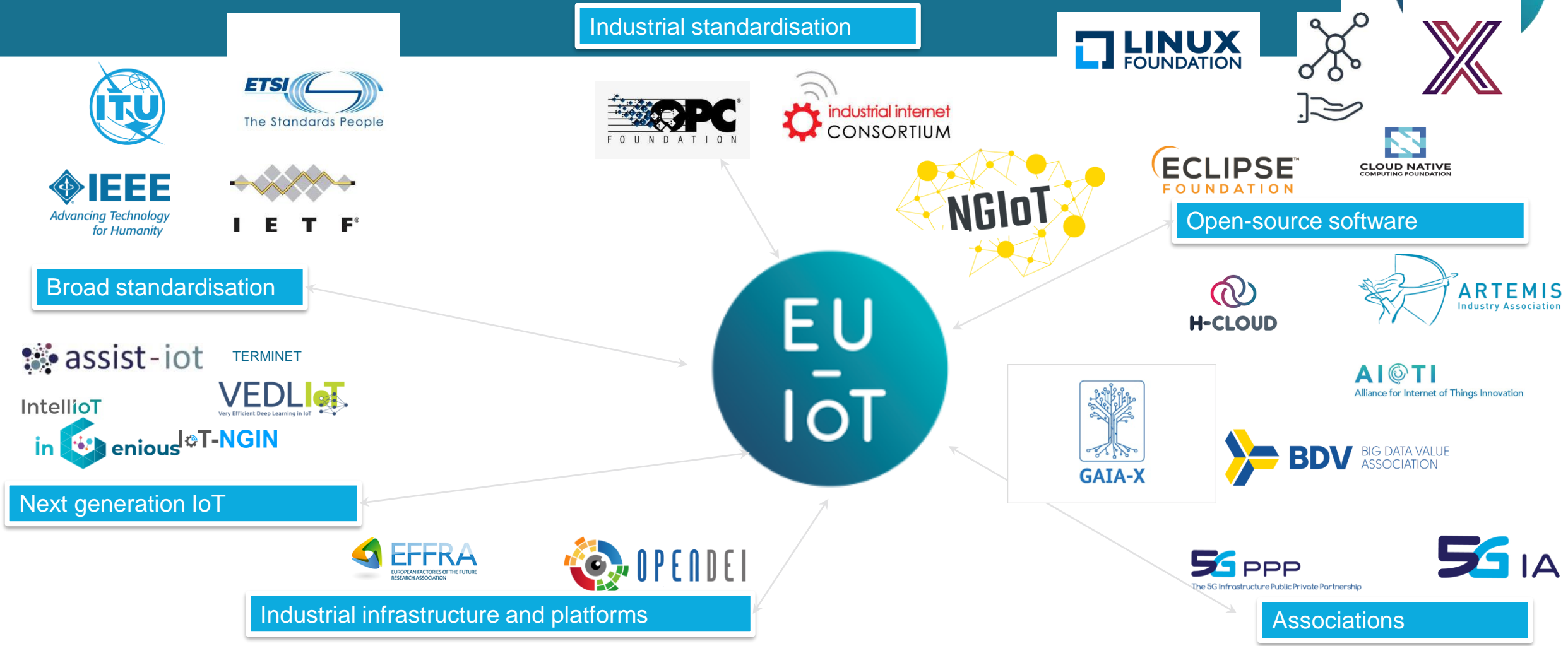


- **IoT development aspects**
 - Over 600 platforms
 - “Internet of Things” (but still, quite different views from different computer science areas)
 - Consumer and Industrial IoT, non-functional requirements are quite different
 - How can you get involved (get a list of contacts for WP3)
- **ICT-56 support**
 - Work with the RIAs towards standardisation and pre-standardisation
 - Support knowledge and transfer exchange
 - Work with related associations (Human-centric IoT, Edge computing)
- **Assist in documenting challenges**
 - technical, deployment, business, and societal
 - Connectivity, interoperability, analytics, security/privacy, business/RoI, societal impact



- **Step1: Collecting different IoT SDOs – M8 (May 2021); regular updates until M30**
 - SDO description, purpose, groups
 - Open/membership, etc.
 - From partner entities; RIAs; Experts, NGIoT, etc.
- **Step2: Mapping of different SDOs to the EU-IoT pre-defined areas of focus: M8; regular updates until M30**
 - EU-IoT areas covered and specific topics addressed
 - Detection of gaps and possible synergies
 - If required, establishment of specific “task-forces” (e.g., link towards GAIA-X; link towards 5G-PPP AI)
- **Step3: Recommendations (Deliverable), M12: September 2021**
 - Deliverable describing the IoT standardisation mapping; feedback from RIAs and partners; recommendations and next steps

Step 1: Collecting

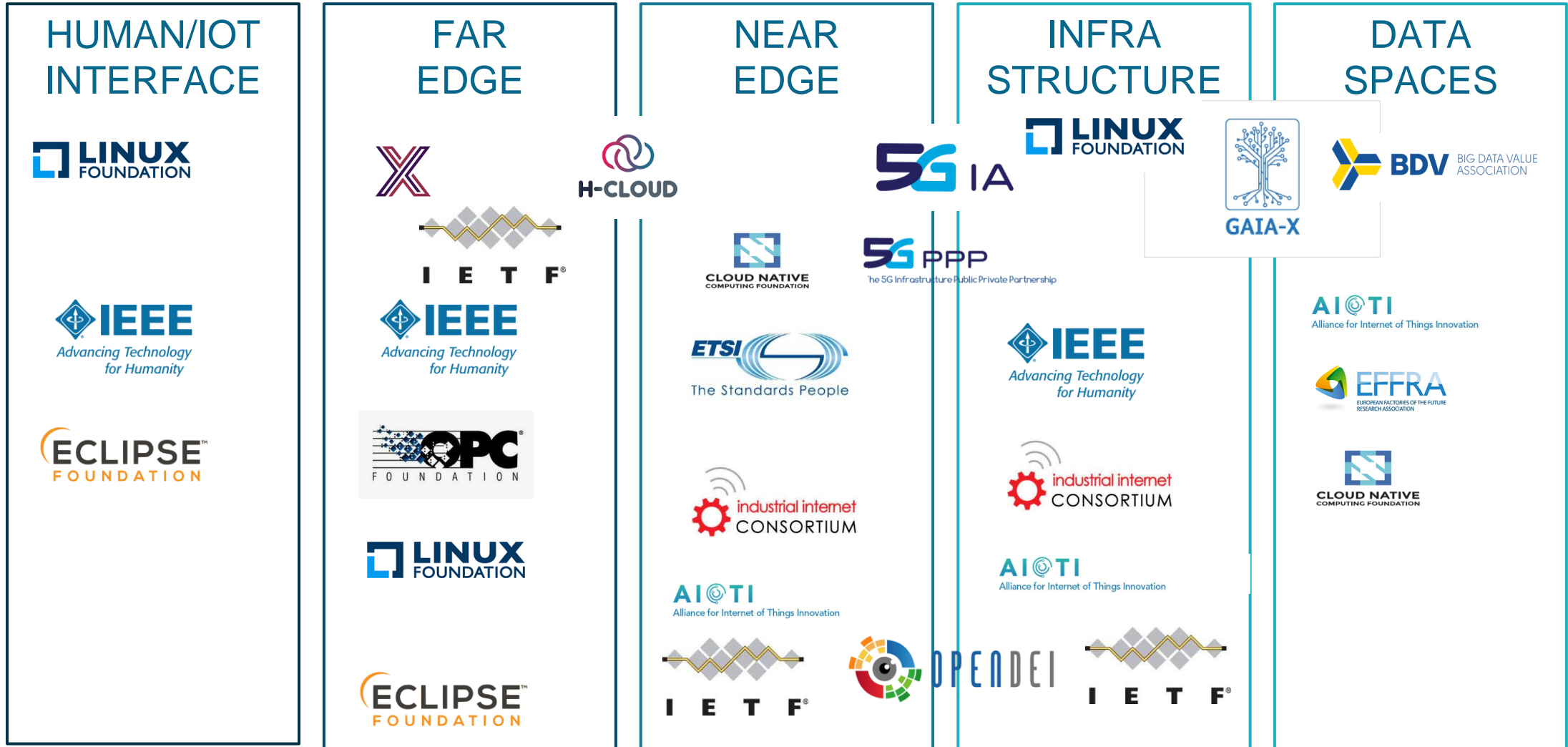


And in cooperation with several other stakeholders in the IoT community ...



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Step 2: Mapping Example



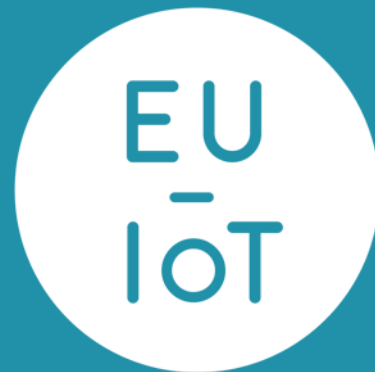


- SDOs (3GPP, CENELEC, ISO, ETSI, GS1, IEC, IEEE, IETF, OASIS, ITU-T, ODVA, OGC, OPC, W3C)
- Pre-standardisation (IRTF, 5GACIA, 5GIA)
- Alliances and Consortia (AIOTI, BDVA, BBF, CNCF, Eclipse, EdgeX, EEC, FIWARE, Gaia-X, GSMA, IIC, Industry4.0, LoRa, ORAN, VDMA...)
- Collected data
 - Acronym, title
 - European/international scope
 - Relevant EU-IoT area scope (e.g., infrastructure, interfaces, near/far Edge, Data Spaces)
 - European competitiveness domains
 - Stakeholders (e.g., Industry, policy makers, academia/research)
 - Description
 - URL
 - ICT-56 projects involved
 - How to get involved



2020/2021 Key Actions - Year 1

- **Open-source catalogue**
 - Over 100 OSS projects categorized in alignment with the EU-IoT scope areas
 - To be available via the EU-IoT Website (<https://www.ngiot.eu/eu-iot/>) – September 2021
- **Mapping of SDOs to the EU-IoT scope areas**
 - Over 60 SDOs, pre-standardisation, associations collected
 - To be available via the EU-IoT website – September 2021
- **Recommendations on research priorities and innovation strategies to standardisation – D3.7, September 2021**
 - Deliverable describing the IoT standardisation mapping; feedback from RIAs and partners; recommendations and next steps
- **White papers**
 - The Internet of Things Open-source Ecosystem in 2021, John Soldatos (Intrasoft); Rute Sofia (fortiss GmbH), ariya Rublova (Intrasoft) – under development, expected release September 2021
 - A Vision on Smart, Decentralised Edge Computing Research Directions, Rute Sofia (fortiss GmbH), John Soldatos (Intracom)
- **Standardisation and Open-source meetings with RIAs**
 - Meeting on 27.04.2021, see <https://drive.ngiot.eu/index.php/s/PwCMcTmoKPRPjzi?path=%2FEU-IoT-WP3Meeting1-OpenSourceStandards>
 - Meeting on 15.09.2021, involving SDOs and RIAs



THANK YOU FOR YOUR ATTENTION

