

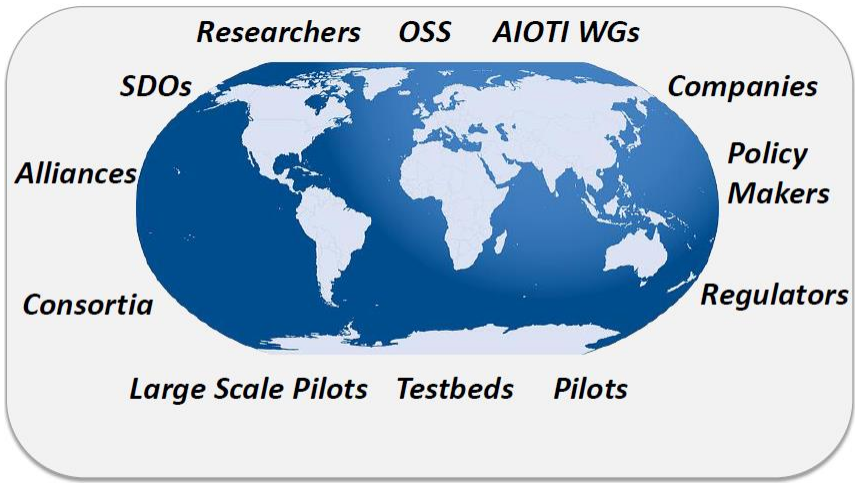


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ALLIANCE FOR INTERNET OF THINGS INNOVATION

WG03 – IoT Standardization pitch

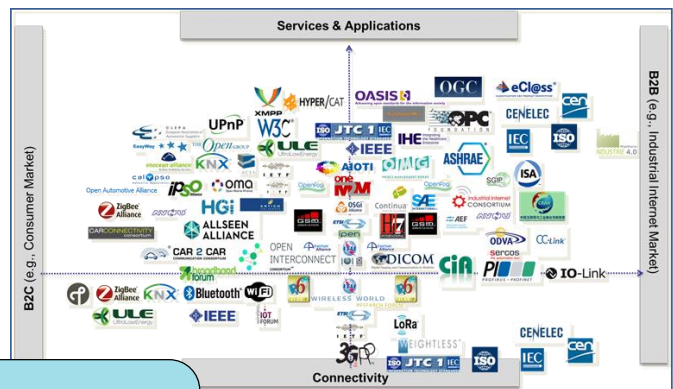
Patrick.guillemine@etsi.org – AIOTI www.aioti.org WG03 Chairman



WG03 support to AIOTI in

- Digital Single Market
 - Digitising European Industry
- IoT subgroup/IoT Platforms*

Analyze landscape



Identify gaps, divergences, common concerns

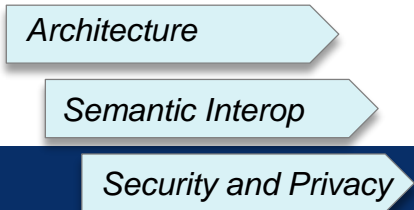
AIOTI WG03

Engage, disseminate and influence



Publish guidance and recommendations

Task sub-teams to address themes



IoT SDOs and Alliances Landscape (Technology and Marketing Dimensions)



Source: AIOTI WG3 (IoT Standardisation) – Release 2.7

IoT SDOs and Alliances Landscape (Vertical and Horizontal Domains)

Home/Building

Manufacturing/
Industry Automation

Vehicular/
Transportation

Healthcare

Energy

Cities

Wearables

Farming/
Agrifood

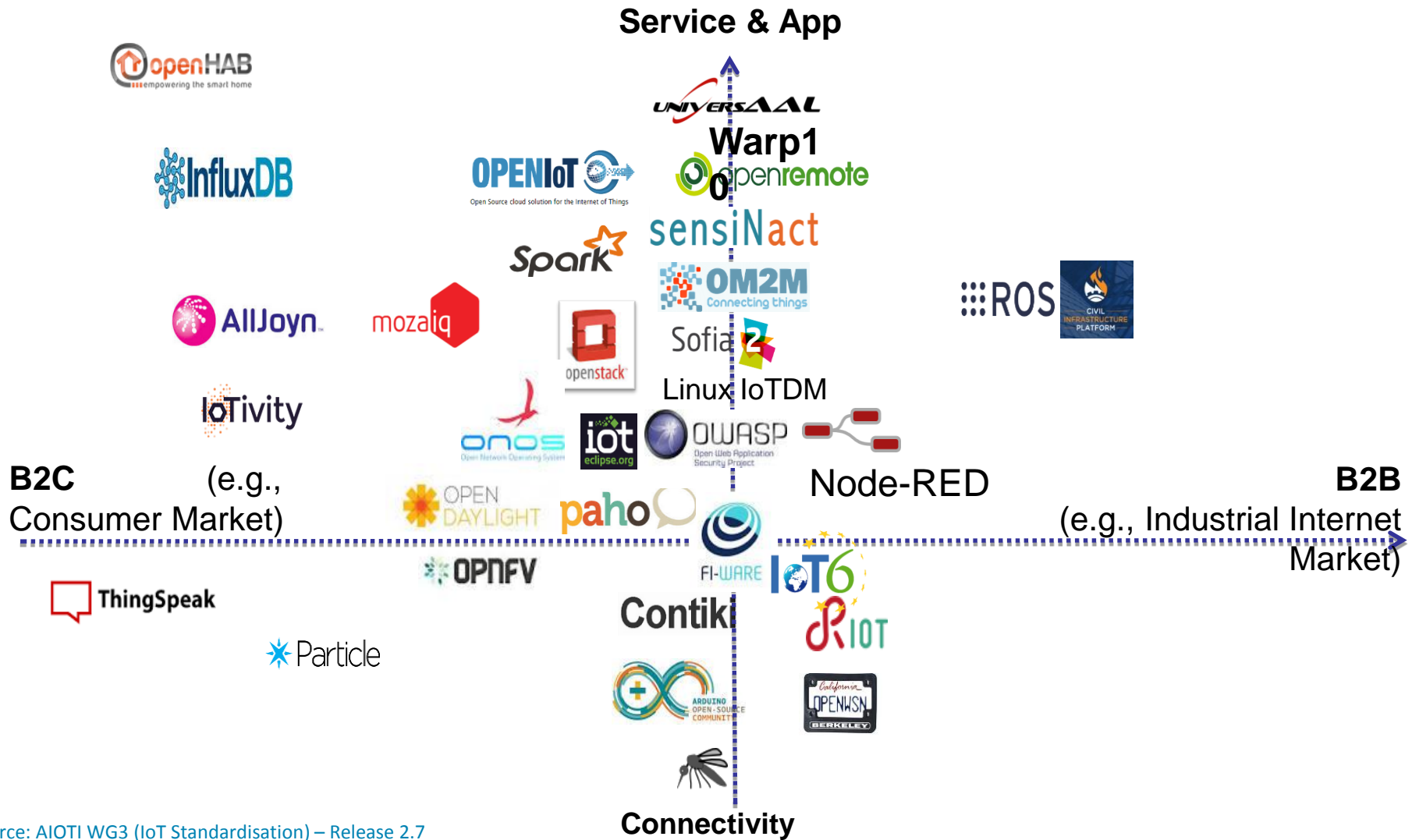
Source: AIOTI WG3 (IoT Standardisation) – Release 2.7

Horizontal/Telecommunication



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IoT Open Source Initiatives Landscape (Technology and Marketing Dimensions)



Source: AIOTI WG3 (IoT Standardisation) – Release 2.7



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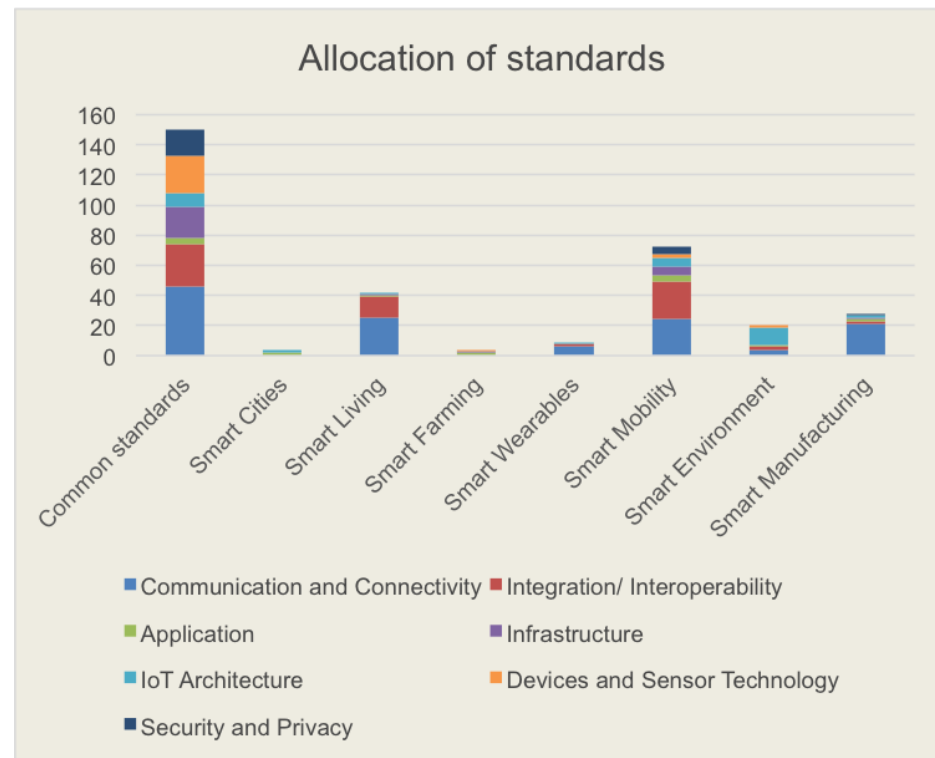
The ETSI STF 505 in support of AIOTI WG3

- ❖ ETSI TC SmartM2M launched a Specialist Task Force (STF505) to provide two reports
 - TR 103 375 on IoT Standards landscaping
 - analyzing the standards landscape provides a list of existing standardized technology suggested for reuse by the LSPs
 - TR 103 376 on IoT gap analysis
 - identifying technical/societal/business gaps as a good indication of the level of maturity of standardization in a given vertical domain
- ❖ Both reports have been published
 - Stable Draft in June 2016
 - Public review phase
 - Final Draft in August 2016
 - Publication as ETSI reports in October 2016
- ❖ Final presentation of results on February 7th in Brussels
 - Presentation of STF 505 results and recommendations
 - Feedback from IoT community stakeholders, e.g., Standards O



Highlights of TR 103 375 on IoT Landscaping

- ❖ 329 standards identified
 - allocated to
 - 7 vertical IoT Domains (LSPs)
 - 7 Knowledge Areas (AIOTI WG3)
 - 150 Generic Standards
 - Common to 3+ vertical domains
 - 179 Domain-specific Standards
- ❖ Over 70% of standards in
 - Communication and connectivity
 - Integration/Interoperability
 - IoT Architecture
- ❖ Common standards mostly in
 - Communication and connectivity
 - Integration/Interoperability
 - Device and sensor technology
 - Infrastructure



Highlights of TR 103 376 on IoT Gaps Analysis

❖ What gaps are

- Missing standards; missing APIs
- Duplications requiring harmonization
- Missing interoperability profiles

❖ Technical/Business/Societal gaps

- Security & privacy classified as Societal gaps

❖ Gaps Identification

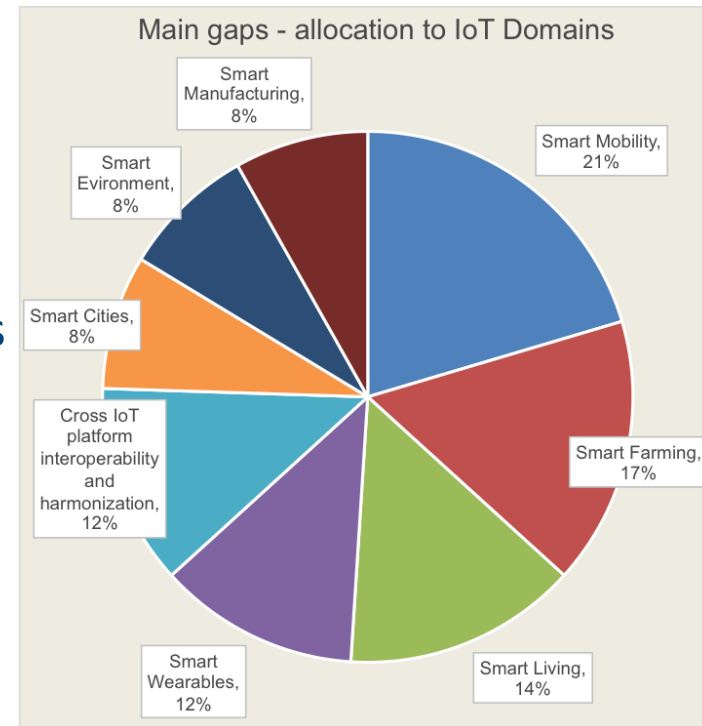
- Survey in the IoT community (215 answers)
- Complemented by the STF experts analysis

❖ Dissemination of STF results

- Towards the IoT community e.g., LSPs

❖ Resolution of gaps

- Left to the proper organizations in the IoT community



WG03 Plans with H2020 IoT LSPs in the new AIOTI Association

- ❖ Keep large membership and great momentum and its current organisation based on 5 sub-group and deliverables, the liaised SDOs/Alliances in order to solve AIOTI WG03 future key and specific challenges.

- ❖ IoT Landscape / georgios.karagiannis@huawei.com
 - IoT Landscape maintenance is key to keep the liaisons alive and maintain dialogue on how to foster collaboration to improve interoperability & security
 - IoT-EPI IoT Platforms analysis improvement / H2020 UNIFY-IoT Ph. Moretto (ETSI STF)
 - Gap Analysis and recommendations / EC funded STF 505 E Darmois (ETSI STF)
 - Cooperation with SDOs/Alliances to foster co-creation and interworking (Patrick Guillemin)

- ❖ HLA / High Level Architecture / omar.elloumi@nokia.com
 - IoT identification juergen.heiles@siemens.com
 - IoT Reference Architecture and its mapping with existing IoT Reference Architectures

- ❖ IoT Semantic Interoperability Paul.Murdock@landisgyr.com
 - Important topic of the moment that created a great international collaboration

- ❖ IoT Privacy (with WG04) vanderwees@arthurslegal.com
 - IoT Platform, experimentation, LSPs need concrete standard framework & references to enable "IoT Trust" and IoT "Privacy by design"

- ❖ IoT Security (with WG04) vanderwees@arthurslegal.com,
jacques.kruse-brandao@nxp.com, harm.arendshorst@nl.verizon.com
 - IoT Security Architecture for Trusted IoT Devices; Baseline Requirements for Security & Privacy up to segment requirements; experimentation, LSPs need concrete standard framework & references to enable "IoT Trust" based on IoT "Security by design"





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Thank you!

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