



Landscape of Internet of Things Report

StandICT.eu 2023
ICT STANDARDISATION OBSERVATORY AND SUPPORT FACILITY IN EUROPE

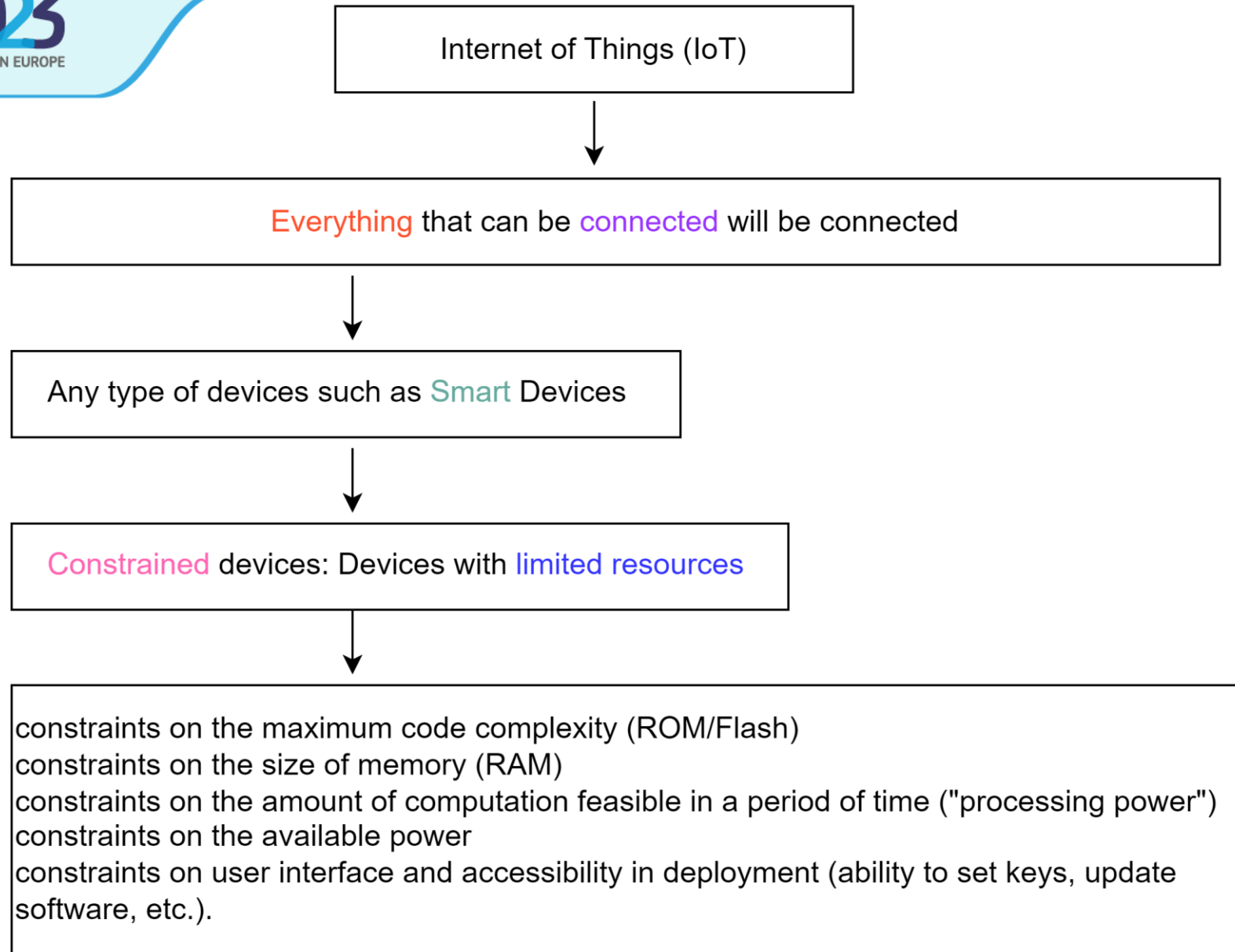
“Walk & Talk” Digital Transformation through Standardisation: IoT and Edge

Maria Ines Robles – mariaines.robles@tuni.fi

IETF ROLL and IoT Directorate Co-chair; TWG IoT member; FAST-LAB Tampere University



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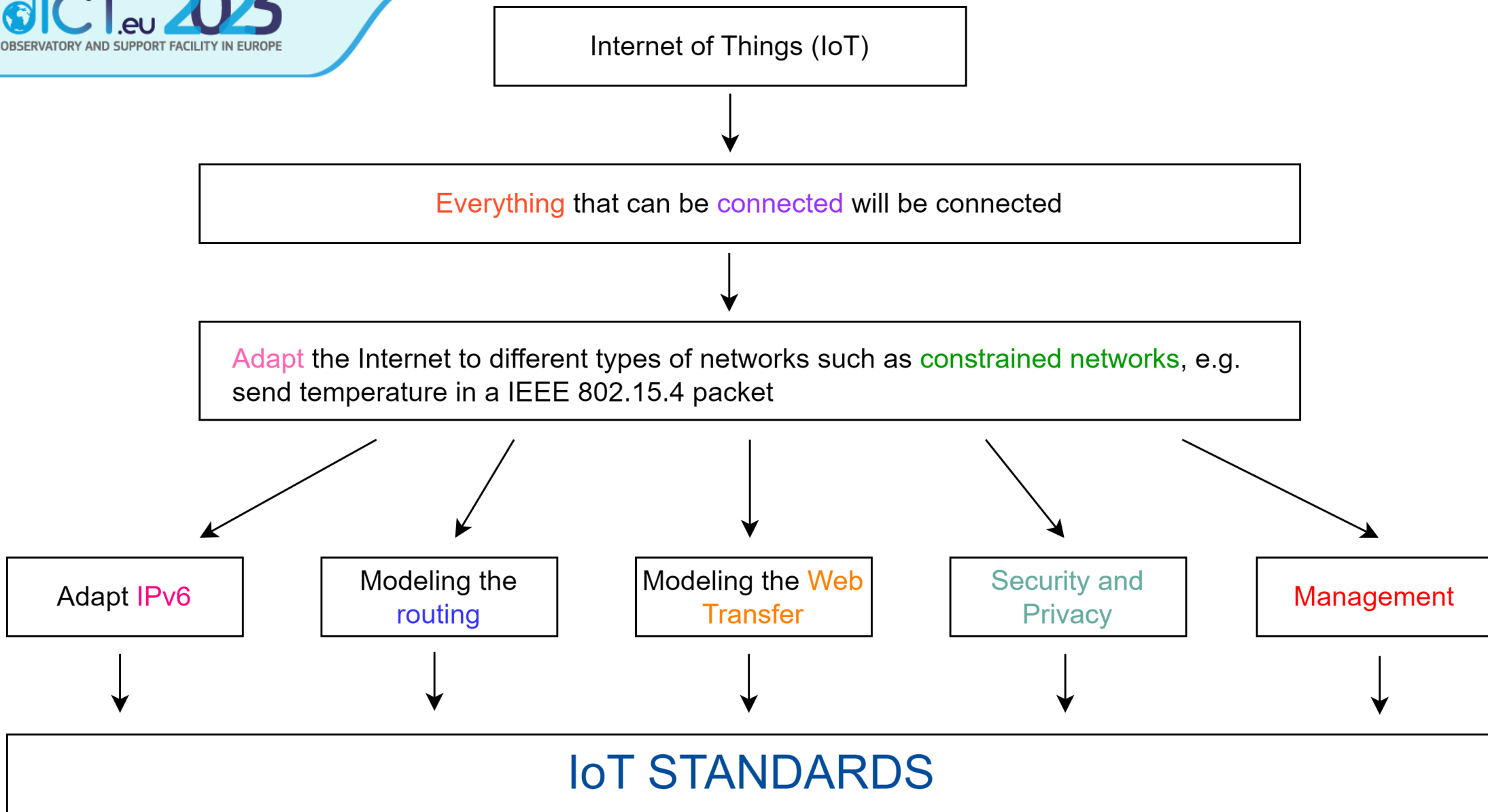


Internet of Things (IoT)

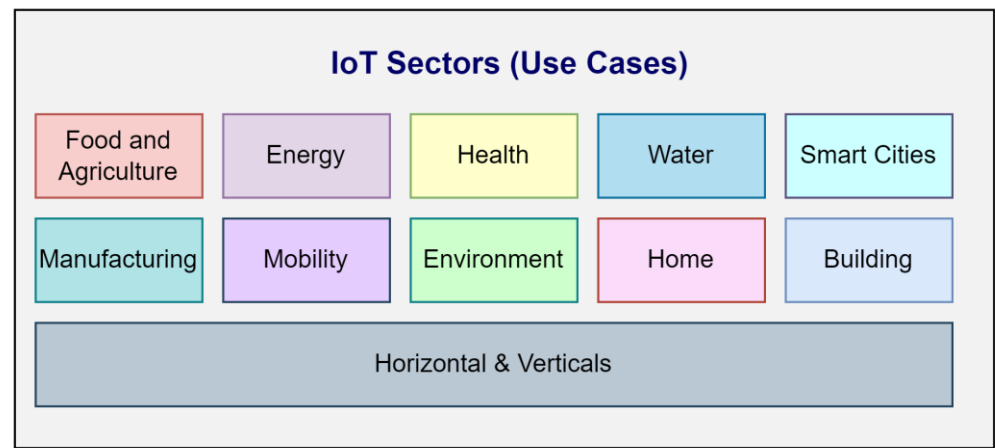
Everything that can be connected will be connected

Adapt the Internet to different types of networks such as constrained networks, e.g. send temperature in a IEEE 802.15.4 packet

Constraints may include:
low achievable bitrate/throughput (including limits on duty cycle),
high packet loss and high variability of packet loss (delivery rate),
highly asymmetric link characteristics,
limits on reachability over time (a substantial number of devices may power off at any point in time but periodically "wake up" and can communicate for brief periods of time),
lack of (or severe constraints on) advanced services such as IP multicast.

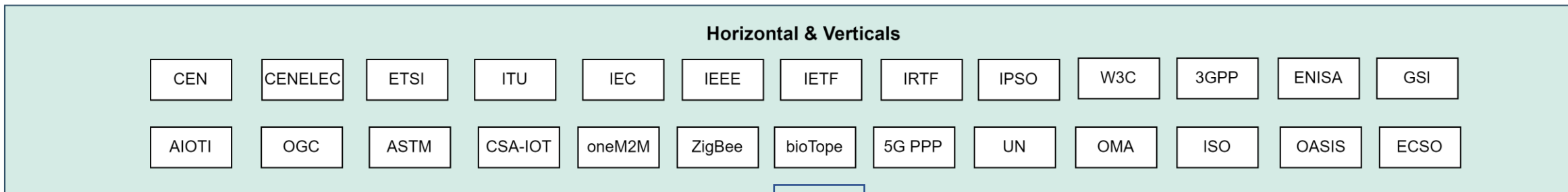
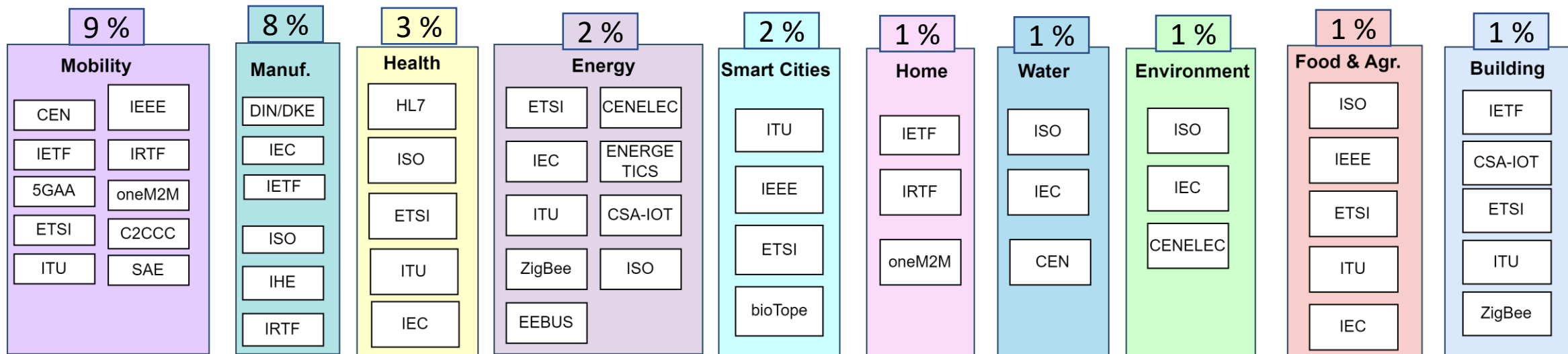


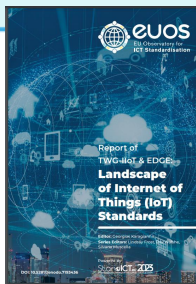
Landscape IoT Standards: Taxonomy



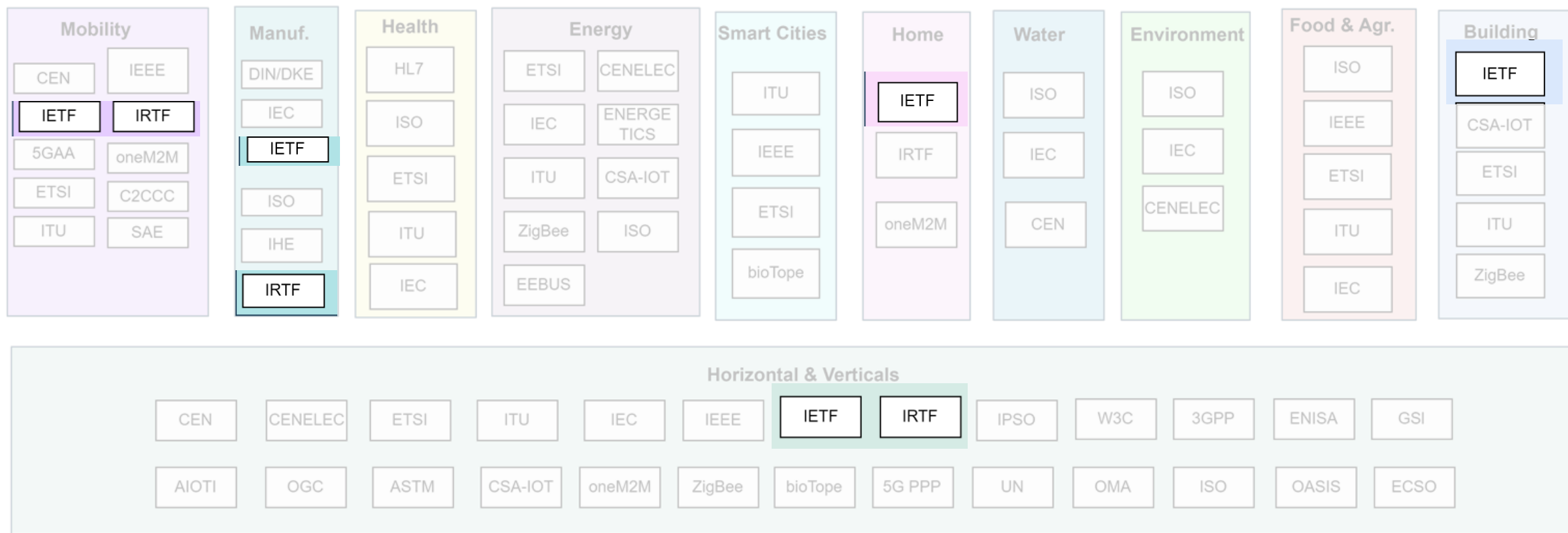


Landscape IoT: SDOs





Landscape IoT: SDOs



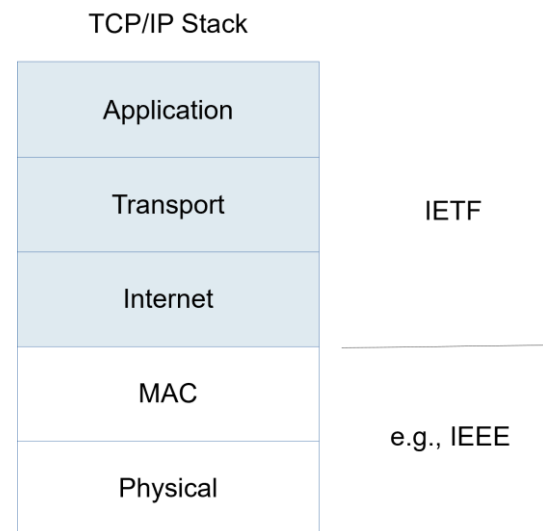
What is the

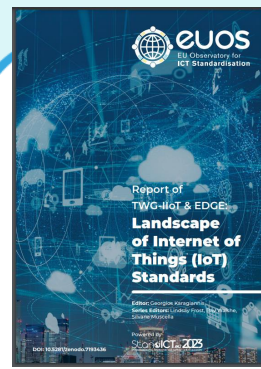


The Internet Engineering Task Force (IETF) is an **OPEN** international community => **make the Internet work better** by producing technical documents that influence the way people use the Internet.

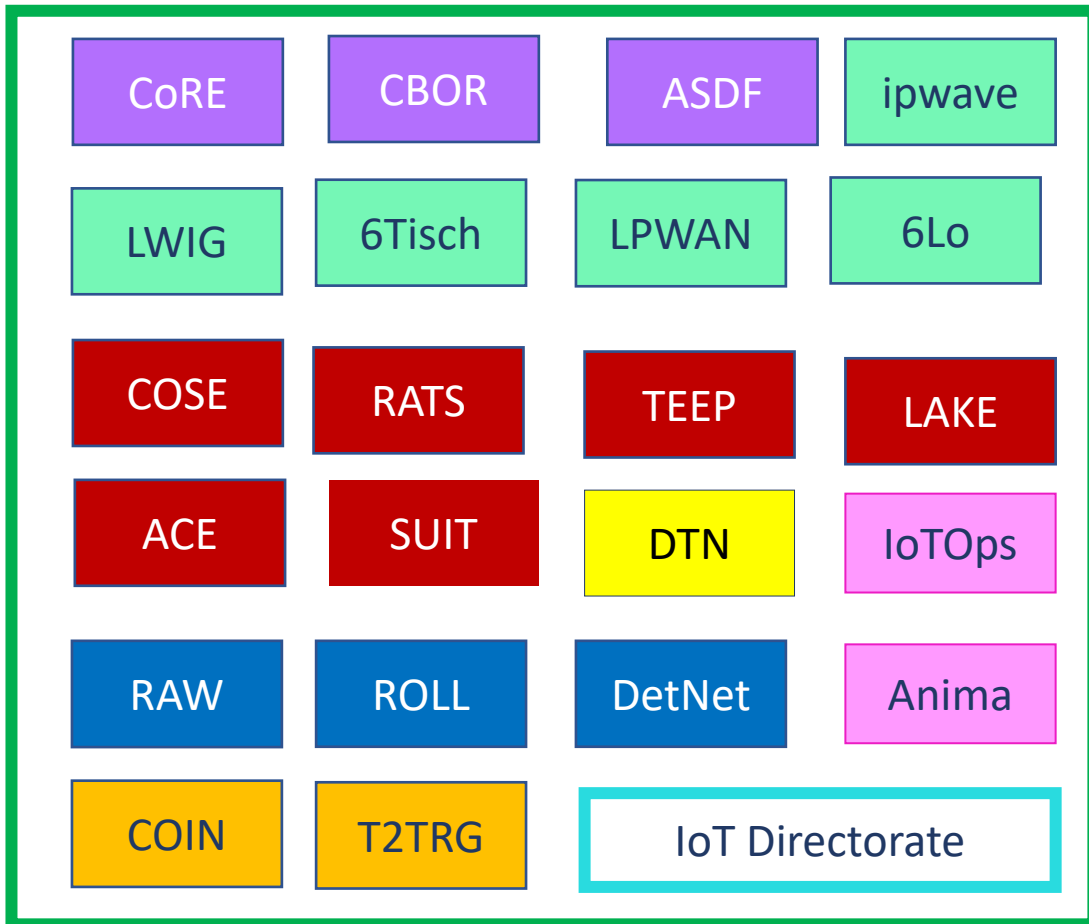
IETF Principles

- **Open** process
- **Technical** competence
- **Volunteer** Core
- **Protocol** ownership
- **Rough** consensus and **running** code





IoT - IETF in



IETF Working Group Areas

-  Application Area
-  Internet Area
-  Security Area
-  Transport Area
-  Routing Area
-  Operations and Management Area

<https://datatracker.ietf.org/wg/wgname/about/>

 IRTF

<https://datatracker.ietf.org/rg/rgname/about/>

 IoT Directorate

<https://datatracker.ietf.org/group/iotdir/about/>



Thanks from

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