

The ETSI Approach to Research, Innovation, and New Technology Standards (including, but not limited to, 6G)

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ETSI - Bringing people together...

- Independent, non-profit standards organization
- ♥ Officially recognized by the European Union to support EU regulation
- Founding Partner of both





- ✓ Over 900 members from 61 countries over 5 continents,
- Diverse community: private companies, research and academia, governments, public bodies, societal stakeholders
- Ver 130 technical groups holding more than 4 000 (e) meetings per year
- Ver 51 000 standards published to date, 2 400 annually
- All ETSI standards are available free of charge and may be downloaded from <u>https://www.etsi.org/standards</u>



Public / Private Research organizations and Universities make up for over 14% of our ETSI membership and are present both in Europe and globally



Source: April 2023 edition of the ETSI Enjoy! magazine https://www.etsi.org/newsroom/magazine

https://www.etsi.org/

ETSI Approach to Research and Innovation

ETSI

- ETSI encourages a constant flow of research and innovation output into our standards work.
- ETSI Board RISE group: Strong links between Researchers, Innovators & Standardization expertise in ETSI
 - Working with EU platforms (such as Horizon Europe, SNS JU, 6G-IA, NetworldEurope)
 - Working with national / EU / global research platforms & projects (e.g. HEXA-X / Next G Alliance /one6G / IOWN)
 - Outreach to universities and research labs worldwide
- 2 ETSI Board TREND group: Examines Future Technology Trends,
 - Produces the ETSI Technology Radar (ETR)
- ETSI NET (New Technology) Team: responsible for
 - Build the tools and enablers for Research into Standards,
 - Track and capture Future Technology Evolutions,
 - Enable the creation of new technical groups, areas of work in ETSI



ETSI Technology Radar - Overview

- ETSI Technology Radar (ETR) tracks the major technology trends that are just on/over the horizon (approx. 0 -> 7 years). *Identifies potential for new standards work in ETSI*.
- ETR was first published in April 2021 and originally contained 10 broad Tech-Trends



ETSI Technology: Radar https://www.etsi.org/images/files/ETSIWhitePapers/etsi_wp45_ETSI_technology_radar.pdf

Artificial Intelligence

ETSI Technology Radar - Update



- ETSI Technology Radar (ETR) is in the process of being updated by BOARD_TREND
- Revision of the ETR planned for publication DECEMBER 2023, with 11 additional Technology Trends



Topics emerging from early 6G research

6G will follow later



NOTE: These are simply common elements Extracted from *multiple* 6G vision papers.



Potential 6G pre-standards Groups, What 'could' be next ?



ETSI is always considering potential new areas of work.

The topics identified in the ETSI Technology Radar (ETR) are a good starting point but not only. ETSI is 100% member-driven and is interested in suggestions and contributions from our Member organizations (present & future) about potential new areas of work for 2023 and beyond.

Today, there is no consensus of what the 6G technologies will include, but they will be a mix of,

- Evolutionary technology developments, building on 5G evolutions
- and *Revolutionary* technology leaps, requiring a 'new' Generation



For Further Information:

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