

(one6G)

one6G ASSOCIATION

AN OPEN ACCELERATOR FOR 6G RESEARCH IN EUROPE

one6g.org

DRIVE 6G RESEARCH AND INNOVATION EFFORTS

Launched in March 2021, one6G is a non-profit and membership fee free association offering an open collaborative framework to explore how to move beyond current communication networks technologies and business.

EMPOWERING SMART CONNECTIVITY FOR A BETTER FUTURE

- ✓ The one6G initiative will help unlock the full potential of both public and private organizations in the digital decade, empowering international co-creation.
- ✓ one6G will foster participation of visionary researchers from academia and industry, global operators, major market players in selected verticals, regulatory agencies, market analysts, as well as innovative SMEs.
- ✓ one6G will on-board major players from several vertical industries to be engaged from the beginning.
- ✓ one6G will promote cutting-edge technologies through joint initiatives, working groups, pre-standardization efforts, testbeds, user engagement, trials, demonstrations, dedicated liaisons and other activities.



VISION AND MISSION



one6G envisions a future where 6g technologies and solutions allow to unleash the potential of smart connectivity for a **secure, resilient and sustainable** development of our society and economy.

The one6G Association's mission is to **evolve, test and promote next generation cellular and wireless technology-based communications** solutions.

- By **supporting global 6G research and standardization** efforts, the goal is to accelerate its adoption and overall market penetration, while addressing societal and industry-driven needs for enhanced connected mobility.
- This with the ambition to **speed up the development of new services and applications** in domains such as advanced autonomous driving, advanced manufacturing, advanced wireless e-health, remote education, etc.



FOUNDING MEMBERS

(one6G)



(((FULL MEMBERS (TILL January 2022)

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one6G aims to act as the 6G Research and Innovation hub, gathering major stakeholders from various research, innovation and technological areas and vertical domains.

Early on-boarding of vertical industries targets:

- ✓ Energy sector
- ✓ Transportation/automotive/maritime sector
- ✓ Industrial-smart factory sector
- ✓ Smart networks for green transition
- ✓ Health sector
- ✓ Cities and public services sector
- ✓ Media and entertainment sector
- ✓ Tourism, culture and heritage sector

one6G facilitates collaborations for the development of 6G solutions targeting economy and societal needs such as knowledge transfer, verification and validation for 6G solutions. one6G is open to focus on new topics brought in by members, as far as contribution driven.

ORGANIZATION STRUCTURE

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one6G Board *(Chair, Secretary)*

WG1

Use Cases, KPIs, Future Market and Business Scenarios

Collecting and analyzing 6G related use cases, scenarios, and requirements

WG2

Enabling Technologies and System Architecture

Shaping the overall technology foundation

(higher frequencies, 6G radio building blocks, intelligent user plane / in-network computing, distributed / federated AI, next generation MIMO, integrated sensing and communication, flexible programmable infrastructures)

WG3

Communication and Dissemination

Community building and association promotion

(6G position paper, web portal, events, newsletter/news, liaisons, webinars, etc.)

WG4

Evaluation, Testbeds, and Pilots

From development to deployment

(integrated sensing and communication, testing procedures and certification, testbeds and trials)

General Assembly

CURRENT WORK ITEMS



	Work Items	Scope
WG1 Use cases, KIPs, and Future Market and Business Scenarios	WI 101 - Collection of 6G-related Use Cases and Related Scenarios	<ul style="list-style-type: none"> • Consolidate vision • Use case and requirements analysis • Streamline terminology, etc.
WG2 Enabling Technologies and System Architecture	WI 204 - Higher Frequencies WI 205 - 6G Radio Access WI 207 - Intelligent User Plane, In-Network Computing WI 208 - Distributed/Federated AI WI 209 - Next-generation MIMO WI 210 - Integrated Sensing and Communication WI 211 - Flexible Programmable Infrastructures	<ul style="list-style-type: none"> • Shaping and evaluation of overall architecture • Integration of concepts and mitigation paths • Research of key concepts and technologies, etc.
WG3 Communication & Dissemination	WI 301 - 6G position paper WI 302 - Dissemination: Web page, Social Media, newsletter, webinars	<ul style="list-style-type: none"> • Liaisons and partnership management • Marketing and promotional activities • Preparation of workshops, conferences, etc.
WG4 Evaluation, Testbeds, and Pilots	WI 210 - (cross WG2/WG4) Integrated Sensing and Communication	<ul style="list-style-type: none"> • Aspects of testing • Test procedures and certification • Testbeds and trials, etc.



ONE6G SUMMIT HIGHLIGHT



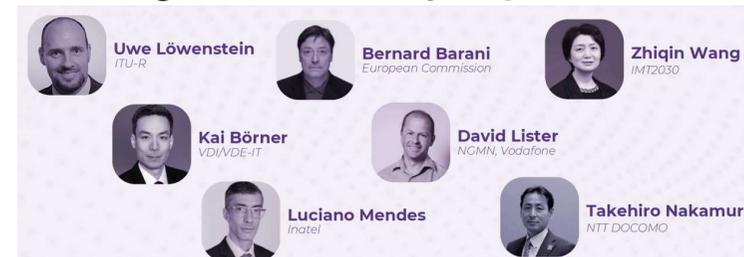
one6G organization successfully hosted the 1st one6G Summit 2021 on Nov 10th 2021

one6G Summit 2021
10 November 2021, 09:45 CET - online

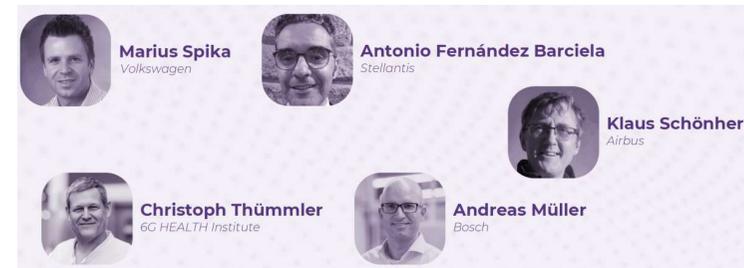
634 REGISTRATIONS	24 SPEAKERS	10 SESSIONS	34 TWEETS	3072 IMPRESSIONS
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T H A N K Y O U
one6g.org #one6GSummit2021

Globe organizations and policy makers



Vertical 6G front runners



Key telecom operators

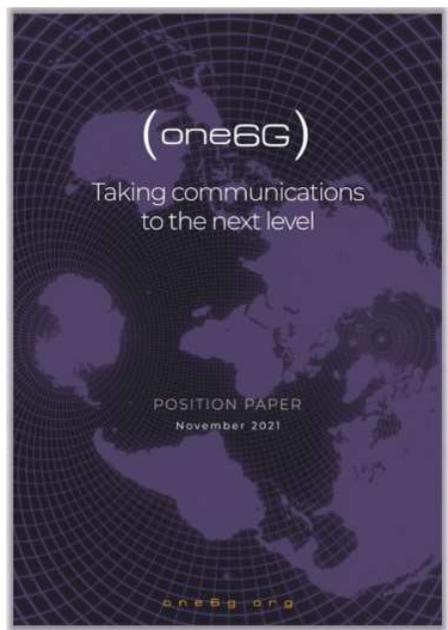


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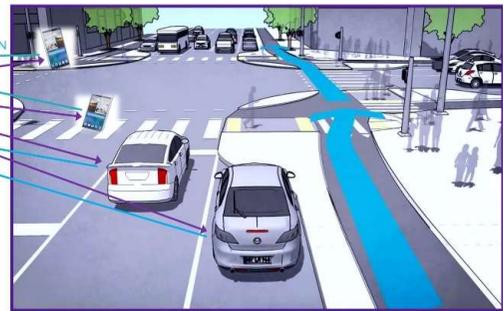
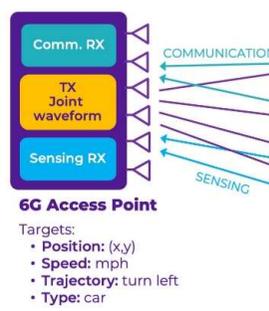
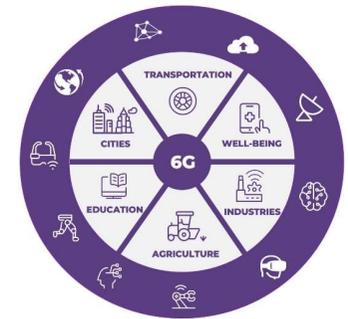
ONE6G POSITION PAPER



one6G organization published the 1st position paper to lay out its vision and work plan in Nov 2021.

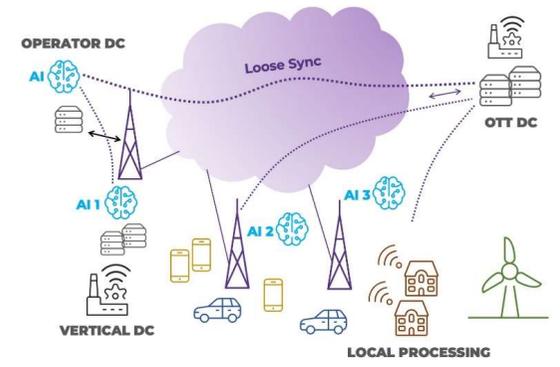


Vertical Use Cases and Requirements



Technology Pillars

- Higher and THz frequencies
- Radio Access
- Next generation MIMO
- Integrated sensing and communication
- Distributed and federated AI
- Flexible programmable infrastructures
- Non-terrestrial networks



CONTACT US TO LEARN MORE

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THANK YOU FOR YOUR ATTENTION

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