



The Standards People

ETSI Research Conference 2023

Maximizing the Impact of European 6G
Research through Standardization

ETSI Support to National / European Research Projects

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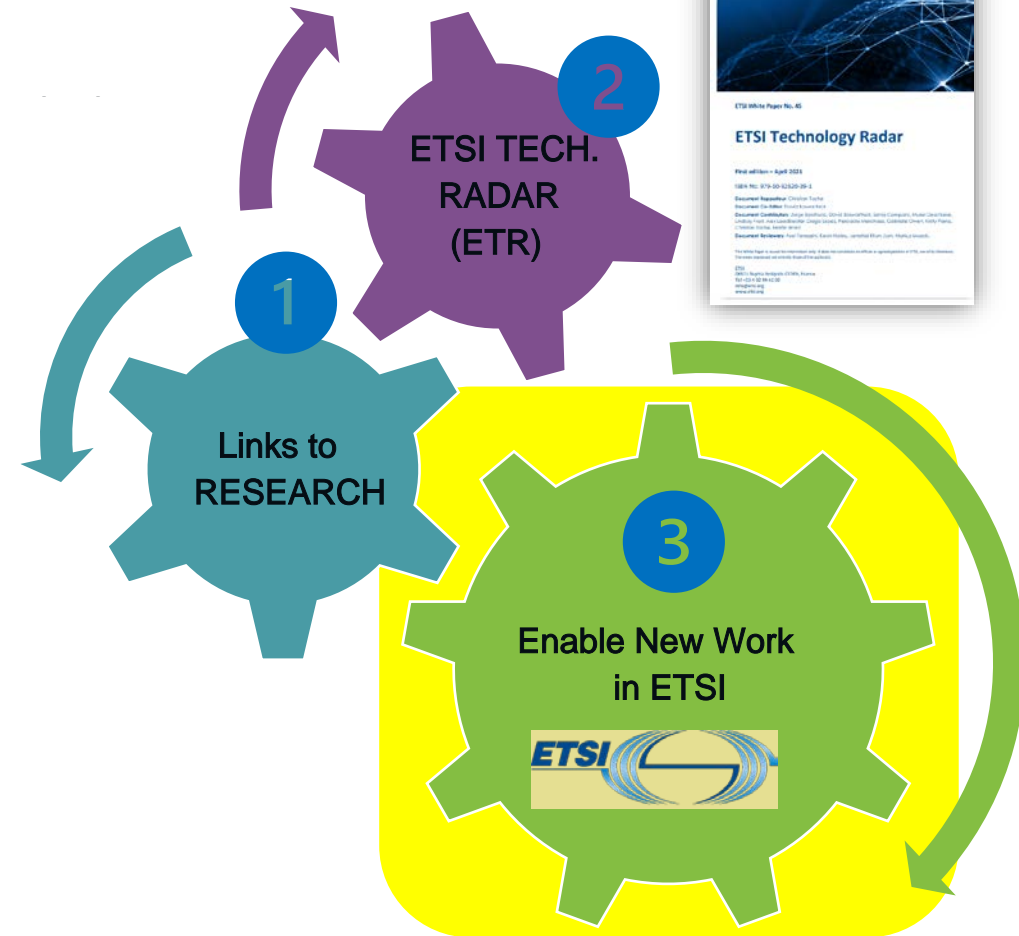
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Research and Innovation in ETSI



- ETSI encourages a constant flow of research and innovation output into our standards work.



- **3 ETSI NET (New Tech.) Team:** responsible for,
 - Building the tools and enablers for R&I into Standards,
 - Tracking Future Technology Evolutions & outreach,
 - Creation of new technical groups, areas of work in ETSI
 - Education about Standardization / seminars / videos / slides / book

ETSI Support to Research Projects



General Advice
on
Standardization



Letter of
Support to
Projects



ETSI presence
on Advisory
Committee



Mapping of
research to ETSI
working groups

We are here to help. Contact research@etsi.org

ETSI Support to Research Projects



General Advice on Standardization

Researchers and Projects can seek advice from research@etsi.org on
1) General Standardization topics and 2) ETSI specific questions

Much information, guidance and extensive FAQ are available on the ETSI research website: <https://www.etsi.org/research>

ETSI provides guidance on where and how researchers and research projects may get involved in standardization

ETSI provides support to a number of EC / National funded projects
BUT any project may ask ETSI for advice, with no need for a pre-signed LoS

ETSI Support to Research Projects



Letter of Support to Projects

ETSI is able to provide a Letter of Support (LoS) to project consortia making project proposals <under certain conditions>. For both EC and National projects

If the project 1) is related to ETSI's scope 2) contains at least 2 ETSI members and 3) considers ETSI standards as input and/or output – then we can talk LoS

The ETSI LoS process is simple, and fast,
A LoS can be produced within 2 weeks if all conditions met & info is provided

A LoS from a recognized SDO *may* be considered positively in project proposal reviews as it demonstrates a plan for the project to engage in standardization

ETSI Support to Projects



ETSI presence on Advisory Committee

Members of ETSI staff and representatives of ETSI Technical Committees may be present on EXTERNAL Advisory Committees of projects where we have a LoS

'TYPICALLY' ETSI is NOT inside the project consortium and does not receive payment from the funding organization – our efforts are free of payment

Being inside the project external advisory committee allows ETSI to provide greater levels of standardization advice and support to the project

As our activities on the advisory committee are not funded **'TYPICALLY'** we only participate to remote meetings with no travel for F2F interactions

ETSI Support to Projects



Project Name	Project Long Name	ETSI WS Y/N	Funding Progr	Stream	Stream Type	Typ	email	Project Start	Project End	Map to ETSI Groups	Project General Objectives
5G-STARDUST	Satellite And Terrestrial Access For Distributed, Ubiquitous, And Smart Telecommunications	Y	SNS	A	[5G] Smart communication components, systems, & networks for 5G Evolution systems.	RIA	tomaso.decola@dlr.de nicolas.chuberre@thalesaleniaspace.com mohamed.el-jaafari@thalesaleniaspace.com			3GPP, TC SES	5G evolution is expected to deliver services to a diverse gamma of verticals and to the overall society according to a anywhere, anytime, anydevice paradigm, hence calling for a polymorphic and flexible architecture. Such an ambitious deployment plan calls for the convergence of terrestrial and non-terrestrial networks, especially for providing connectivity to un(der)served areas, which is the motivation of 5G-STAR5GD-USSTTA.RDUST's ambition is to deliver a fully integrated 5G-NTN autonomous system with novel selfadapting end-to-end connectivity model for enabling ubiquitous radio access. <u>importantly leveraging on 11 new highly flexible multi-constellation (multi-orbit)</u>
6G-BRICKS	Building Reusable Testbed Infrastructures For Validating Cloud-To-Device Breakthrough Technologies	Y	SNS	C	[6G] Enablers and Proof of Concept (PoCs), and experimental infrastructure(s)	RIA	cveri@isi.gr			3GPP, ISG ARF	6G networks, currently only existing as concepts, are envisioned as portals to a fully digitized society, where the physical and virtual world are blended via boundless Extended Reality (XR), and also as an enabler for the Digital and Green transformation of the European Industries. To support this vision, the network capacity must be increased at least by an order of magnitude, while infrastructures must be transformed into a very dense continuum. Thus, academia and industry have shifted their attention to the investigation of a new generation of Smart Networks and infrastructures. It is clear that to win this race towards shaping the next-generation communication ecosystem, a new generation of testbed infrastructures and breakthrough research and technology development is needed, as well as a new generation of testbeds to support future research initiative. <u>To this end, 6G-BRICKS aims to deliver a new 6G</u>
6G-NTN	6G Non Terrestrial Networks	Y	SNS	B	[6G] Radical technology advancement in preparation for 6G, IoT, devices and software	RIA	alessandro.vanelli@unibo.it nicolas.chuberre@thalesaleniaspace.com sandro.scalise@dlr.de mohamed.el-jaafari@thalesaleniaspace.com			3GPP, TC SES	The 6G-NTN project aims at researching and developing innovative technical, business, regulatory, and standardization enablers to achieve full and seamless integration of the Non-Terrestrial Network (NTN) component into the 6G system and establish European leadership in this domain. The vision is to extend coverage, resilience, and sustainability of next-generation mobile networks, meeting the needs and expectations of both vertical and consumer market segments while unleashing new value chains and creating a broad societal impact. <u>The proposed concept of full-fledged integration of the NTN component into 6G leverages</u>
6G-SANDBOX	Supporting Architectural And Technological Network Evolutions Through An Intelligent, Secured And Twinning Enabled Open EXperimentation Facility	Y	SNS	C	[6G] Enablers and Proof of Concept (PoCs), and experimental infrastructure(s)	RIA	salki@motorola.com				The 6G-SANDBOX project brings a complete and modular facility for the European experimentation ecosystem (in line and under the directions set by SNS JU), which is expected to support for the next decade technology and research validation processes needed in the pathway towards 6G. The target is at technologies and research advances, that span over the entire service provisioning chain, and refer to user/data, control and management planes. In this direction, 6G-SANDBOX introduces the concept of Trial Networks, which refers to fully configurable, manageable and controlled end-to-end networks, composed of both digital and physical nodes. <u>The 6G-SANDBOX Trial Networks incorporate infrastructures distributed in EU (namely in Malaga, Athens</u>
6G-SHINE	A Dual-Frequency Distributed MIMO Approach For Future 6G Applications	Y	SNS	B	[6G] Radical technology advancement in preparation for 6G, IoT, devices and software	RIA	gb@es.aau.dk alain.mourad@interdigital.com frank.burkhardt@iis.fraunhofer.de				The 6G-SHINE project will pioneer the main technology components for in-X wireless subnetworks, short range low power radio cells to be installed in a wide set of vertical and consumer entities like robots, vehicles, production modules, classrooms, for the sake of supporting extreme communication requirements in terms of latency, reliability, or data rates. 6G-SHINE will leverage the opportunities offered by the peculiar deployment characteristics of such short-range subnetworks, for a highly performant yet cost-efficient radio design that allows bringing wireless connectivity to a level of pervasiveness which has never been experienced earlier. 6G-SHINE copes with the topics "New IoT components and devices" and "New physical layers and associated



In Summary



Should a new project consortium wish to get support from ETSI, simply contact research@etsi.org

Should research projects or individual researchers seek advice on standardization in ETSI begin by looking at <https://www.etsi.org/research>

Letter of Support can be helpful. If you are engaged in ETSI you can always ask

For information on WHERE to bring research into standards, SNS JU projects can consult the (under development) mapping between projects & ETSI groups

Thanks for your Attention

Any Questions?

Contact: research@etsi.org

