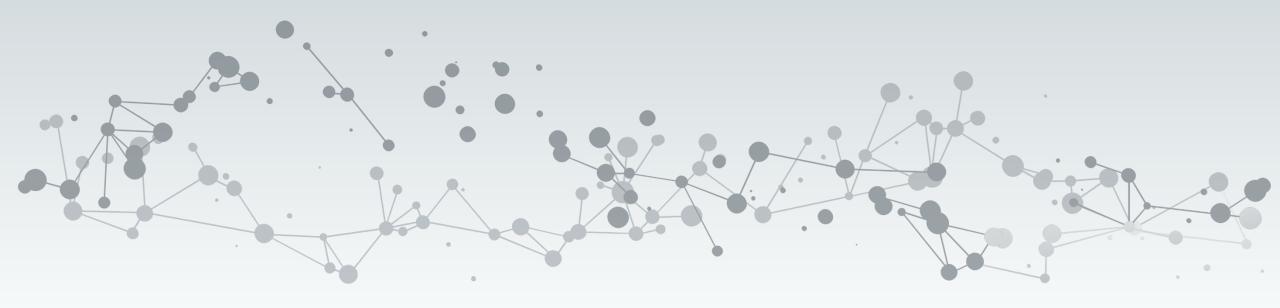




5GPPP & 6G IA

3 major Highlights (VET, T&Ps Brochures & Trials WG)

Kostas Trichias (6G-IA), Didier Bourse (Nokia), Carles Anton Haro (CTTC)



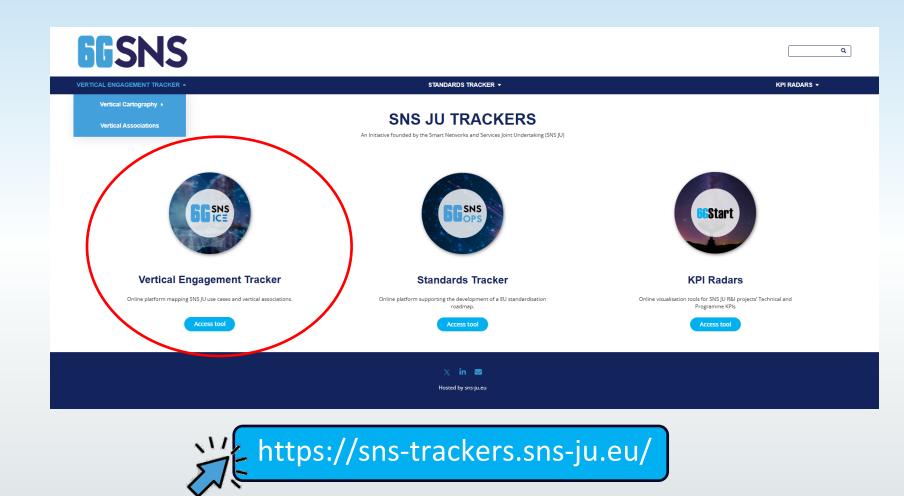
FFSNS

Vertical Engagement Tracker (VET)

SNS JU Vertical Engagement Tracker (VET): What is it?

Online interactive platform mapping and monitoring the use cases developed by the SNS JU R&D across several industry domains.

These are interlinked to **relevant vertical associations,** also mapped in the tool.



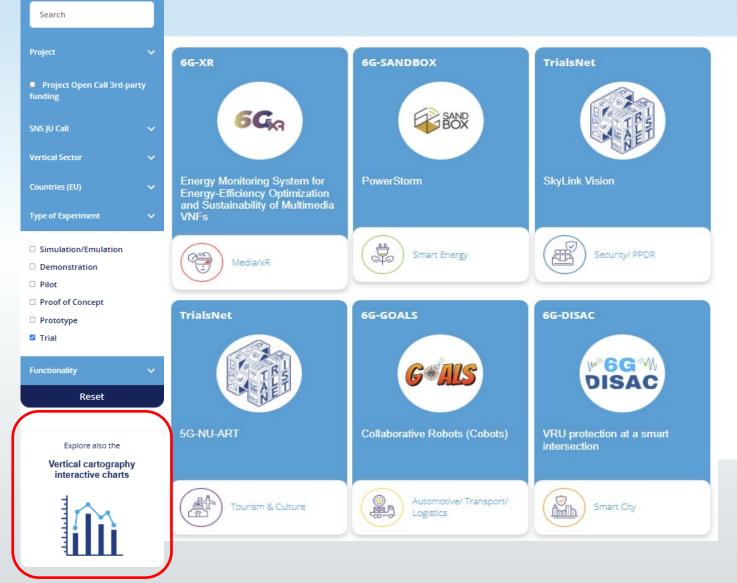
S SNS JU VET: Key data & navigation features

- **283** use cases mapped to date from Call 1 and Call 2 projects (including 3rd party experiments)
 - 237 belonging to 11 key vertical sectors
 - **46** general or in minor verticals
- **59** projects mapped from OC1 and OC2
- **25+** locations (EU Countries)
- 6 experimentation types/methods, from simulations to Trials and Pilots (TRLs up to 7)
- 82 additional uses cases from 7 projects funded via cascade funding mechanisms (projects' open calls for third-party financial support)
- **11+** mapped functionalities (e.g. eMBB, mMTC, URLLC, MEC...)
- **11** vertical associations mapped for the key vertical sectors
- **Filtering** possibility by call, industry, experiment type, country and functionality
- Embedded automatic charts, with dynamic filtering options





- Multiple Filters available
- Search capability
- Categorization per Use Case, per project, per vertical, experimentation type/method, etc.
- Detailed UC description & relevant project and vertical association link
- Interactive Charts Functionality

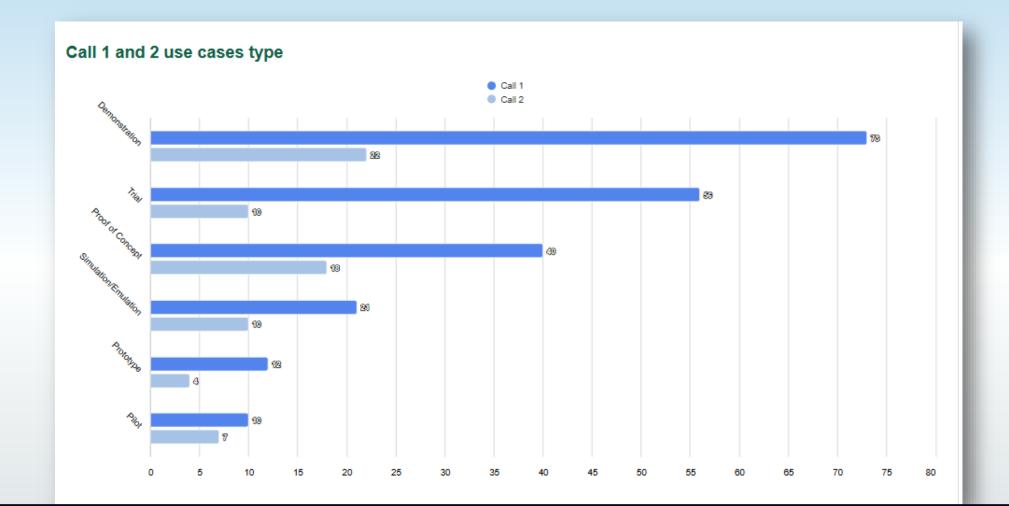


SNS JU Vertical Engagement Tracker: summary charts

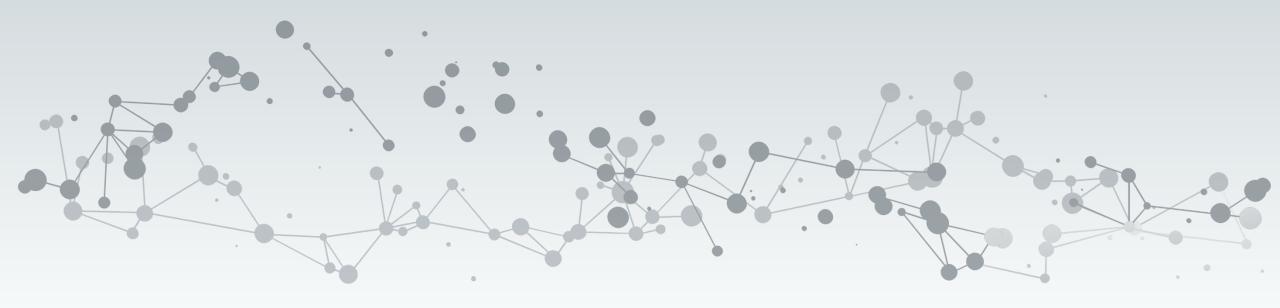


Industry 4.0 and Media/xR dominate both calls, but there is also a good share of use cases in "other" verticals, including general cross-sectoral ones

SNS JU Vertical Engagement Tracker: summary charts



Over one third of the use cases have a good degree of maturity, being in the trial, prototype or pilot stage



FFSNS

Trials & Pilots (T&Ps) Brochure

T&Ps Brochures – 5G Infrastructure PPP Experience

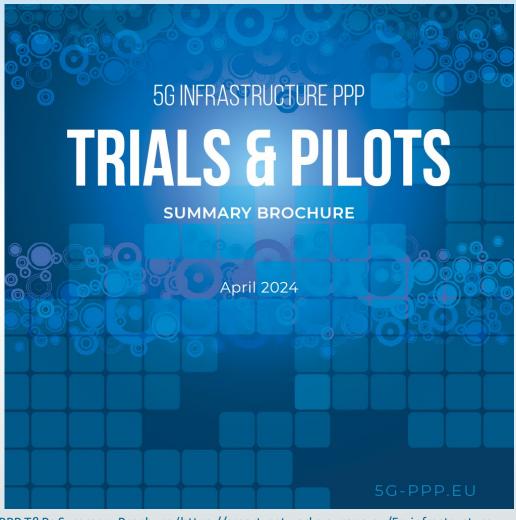
- 5G Infrastructure PPP 4 consecutive T&Ps Brochures highlighting 10 T&Ps each (released in Sep. 2019, Dec. 2020, Aug. 2021 and Nov. 2023)
- Call for inputs with overall detailed process and flyer / criteria forms
- Evaluation/selection Panel including scoring and T&Ps selection



URL Highlight - PPP T&Ps Brochure n°1 (<u>https://5g-ppp.eu/the-5g-ppp-infrastructure-trials-and-pilots-brochure-is-out/</u>)

SNS

5G Infrastructure T&Ps Summary Brochure



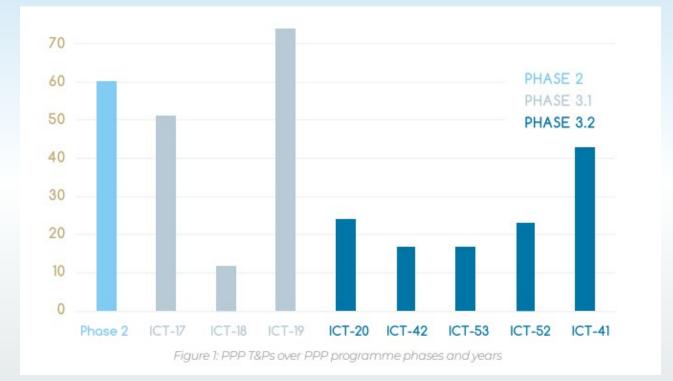
PPP T&Ps Summary Brochure (<u>https://smart-networks.europa.eu/5g-infrastructure-</u> ppp-trials-and-pilots-summary-brochure-2024/)

5G Infrastructure PPP Trials & Pilots

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5G Infrastructure T&Ps Summary Brochure - Highlights

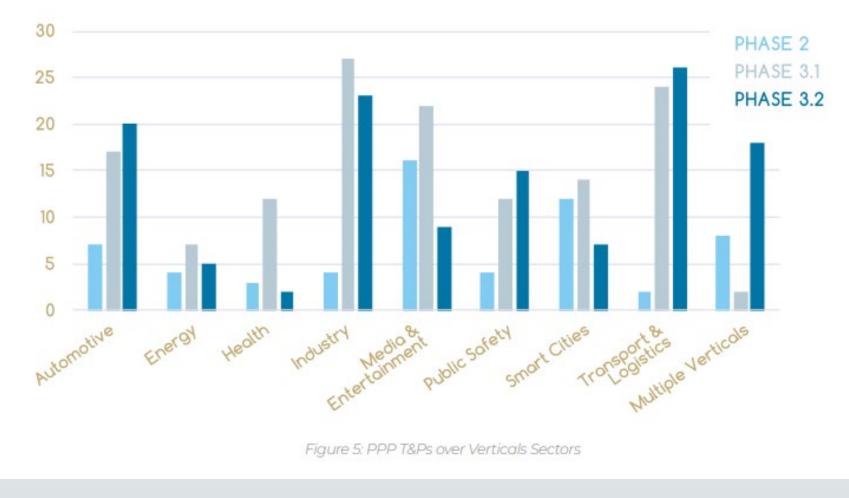




PPP T&Ps Summary Brochure (https://smart-networks.europa.eu/5g-infrastructure-ppp-trials-and-pilots-summary-brochure-2024/)

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5G Infrastructure T&Ps Summary Brochure - Highlights



PPP T&Ps Summary Brochure (<u>https://smart-networks.europa.eu/5g-infrastructure-ppp-trials-and-pilots-summary-brochure-2024/</u>)

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SNS 5G Infrastructure T&Ps Summary Brochure - Highlights



PPP T&Ps Summary Brochure (https://smart-networks.europa.eu/5g-infrastructure-ppp-trials-and-pilots-summary-brochure-2024/)

SNS T&Ps Brochure n°1 – EuCNC & 6GS 2025

- SNS Brochure n°1 to be released as input to EuCNC & 6GS 2025, including 8 T&Ps
 - FIDAL: 5G for PPDR
 - Hexa-X-II: Industrial cobots leveraging beyond communication aspects
 - IMAGINE-B5G: SAFER-FLOW: Situational Awareness Framework Enabling Robust Emergency Response for Urban Flood Warnings Speaker / Panelist in Sessions 4/5
 - SANDBOX: Validation of FR2 Reconfigurable Intelligence Surfaces (RIS) in Malaga
 - TARGET-X: Robotic deconstruction prototype system Speaker / Panelist in Sessions 4/5

 - TrialsNet (Open Call): Next generation gaming and simulation/training platform, for everyone, powered by 5G
 - 6GREEN: Critical infrastructure operation during energy-constraint disaster scenarios



FFSNS

6G Trials Working Group

FGSNS

- To develop a 5G, 5G Advanced and 6G European Trial Roadmap and leverage on the knowledge gained [...] in the context of Smart Networks and Services (SNS) partnership in Horizon Europe.
- To facilitate the involvement of verticals in the Trials and Pilots roadmap.
- To discuss and define business principles underpinning the economic viability of trials.
- To consider and coordinate the activity on trials and verticals with relevant initiatives at international level.
- To keep track and disseminate to the broadest possible audience the work with verticals done by EU funded projects.
- To support the development of European strategic research and innovation agenda and liaise preparation of SNS R&I workprogrammes in relation to trials and experimentations.
- To facilitate the transfer of the developed and experimented solutions to the market using the Digital Innovation Hub (Digital Europe Program)

- 5G Private Trials / Observatory, led by Didier Bourse (Nokia) & Carole Manero (iDATE).
- 5G and Towards 6G Verticals, led by Valerio Frascolla (Intel).
- 5G Trials Cities, led by Jyrki Huusko (VTT).
- 5G International Cooperation, led by Mir Ghoraishi (Gigasys Solutions).
- The Smart Connectivity Digital Innovation Hub Network SCoDIHNet, led by Pierre-Yves Danet (6G-IA)

WG chair: Carles Antón-Haro (CTTC) WG vice-chair: Paul Harris (VIAVI Solutions)

FFSNS Selected Activities of the Trials Working Group

- Liaison with 5G Observatory: talks in events, key takeaways.
 - "5G in the Digital Decade 5th Stakeholder Workshop (Oct'23)
- Panel discussion @ IEEE WCNC 2024:
 - Energy Efficiency in Wireless Communications Networks, 5G to 6G Challenges and Opportunities - BeGREEN
- Edition of 5GPPP Trials & Pilots Brochures 1...4, Summary Brochure, and SNS Trials & Pilots Brochures 1 (in production).
- Workshop on lessons learnt in SNS T&P at EUCNC'24 (Antwerp):
 - "Trials, Pilots and Demos for Selected Verticals: the Experimental Way Forward towards 6G"
 - Projects: 6G-SANDBOX, PREDICT-6G, 6G-XR, FIDAL.
- Co-creation event at 5G Techritory 2024:
 - "From 5G to 6G: leveraging key trends and 5G evolution to shape 6G for vertical sectors" – F2F and streaming
- Podcast recording (Jan'2025. <u>https://rss.com/podcasts/snsice</u>):
 - "Lessons learned hosting vertical experiments from the perspective of 5G/6G experimental facilities"



Added value of Trials WG to 6G IA members (& beyond)

- Selected place for networking: vendors, whos, verticals, EC, research, SMEs (+250 members in general email reflector).
- Dedicated activities to private rials, cities, or peals, int'l cooperation, DIHs.
- Open WG: no need to be a 6G-IA merry of to participate (voting/observers).
- Increased discemination opportunities for your project: presentations, events, brochures, whitepapers, etc.
 - The overall objectives of the Trials WG are as follows: Trials Chair: Carles Antón-Haro ted informati (CTTC) • To develop a 5G, 5G Advanced and 6G European Trial Vice-Chair: Paul Harris Roadmap and leverage the knowledge gained for upcoming Recent triats by SNS projects, national programmes,... Apply to join the Trials WG (VIAVI Solutions) trial roadmaps beyond 5G/6G systems to be addressed in the context of Smart Networks and Services (SNS) pg calls for proposals under Horizon Europe (partnership in Horizon Europe. • To facilitate the involvement of verticals in the Trials Project-related events. roadmap. To discuss and define business principles underpinning the Elaboration of SNS Workprogramme. economic viability of trials. To consider and coordinate the activity on trials and verticals ...and much more! with other relevant initiatives at the international level. • To investigate and propose how to link trials to upcoming calls for project proposals to be addressed in the context of

https://6g-ia.eu/6g-ia-working-groups/#trials

the Horizon Europe (HEU) SNS Partnership.

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