IMAGINE-B5G

Advanced 5G Open Platform for Large Scale Trials and Pilots across Europe

SNS Lunchtime Webinar 1

Prof. David Gomez-Barquero

15th February 2023







Grant Agreement No.: 101096452 Call: HORIZON-JU-SNS-2022

Content

- Fact Sheet
- Objectives
- Methodology
- Platform
- Facilities
 - Norway, France, Portugal, Spain
- Cascade funding
- Use cases
 - Vertical Stakeholder Advisory Board





IMAGINE-B5G fact sheet



Experiments

(Stream A & B)

34-44 projects

OPEN CALLS

Extra players from FSTF

47-55 funded projects

- Call: HORIZON-JU-SNS-2022-STREAM-D-01-01
- **Project type:** Innovation Action (IA)
- **Project number:** 101096452
- Max grant amount: 11M€
 - Cascade funding: 4.6M€
- **Consortium: 17 partners** (9 countries)
 - Project coordination: UPV (Spain)
 - Technical manager: **Telenor** (Norway)
 - Innovation manager: Airbus (France)
 - Open-calls Technical Manager: **UiO** (Norway)

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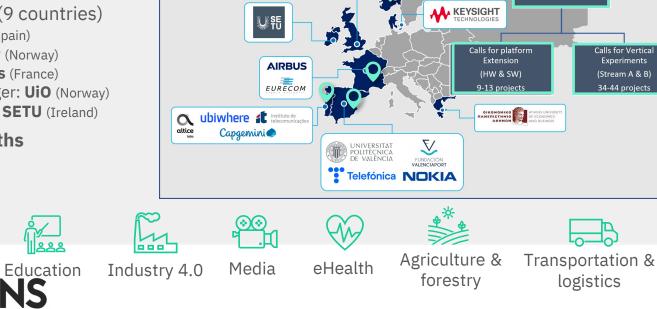
PPDR

Open-calls Admin Manager: SETU (Ireland)

Project duration: 36 months

Funded by the European Union

- (Jan. 2023 Dec. 2025)
- **Verticals**



✓ telenor UiO : University of Oslo

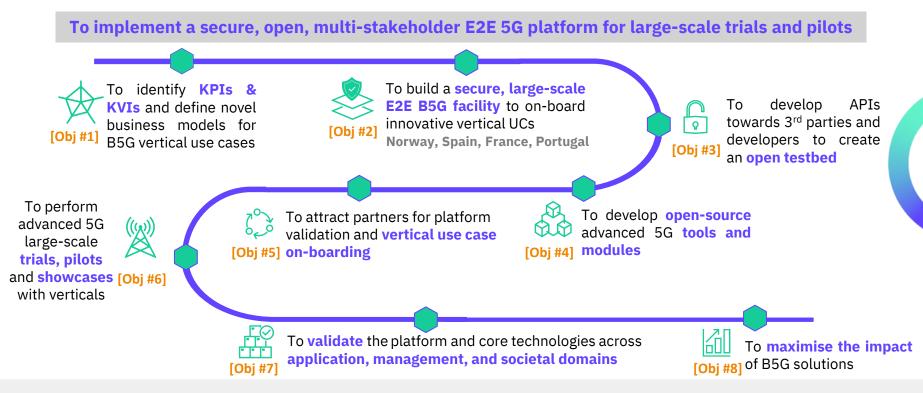
SAMSUNG

X4 advanced 5G experimental facilities

NOKIA

IMAGINE-B5G objectives

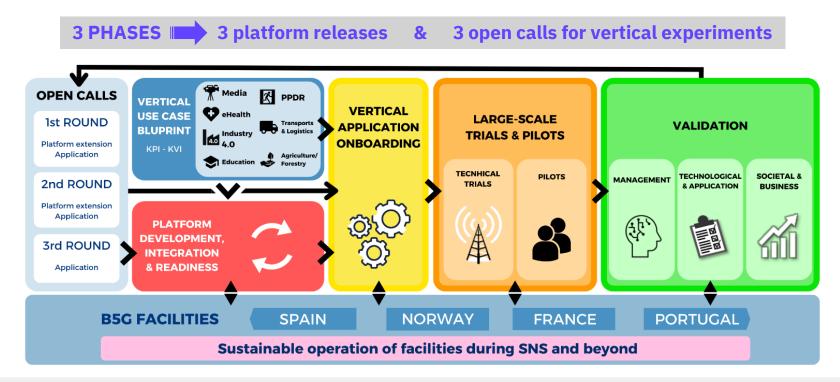








IMAGINE-B5G Methodology



Imagine





Project gantt chart

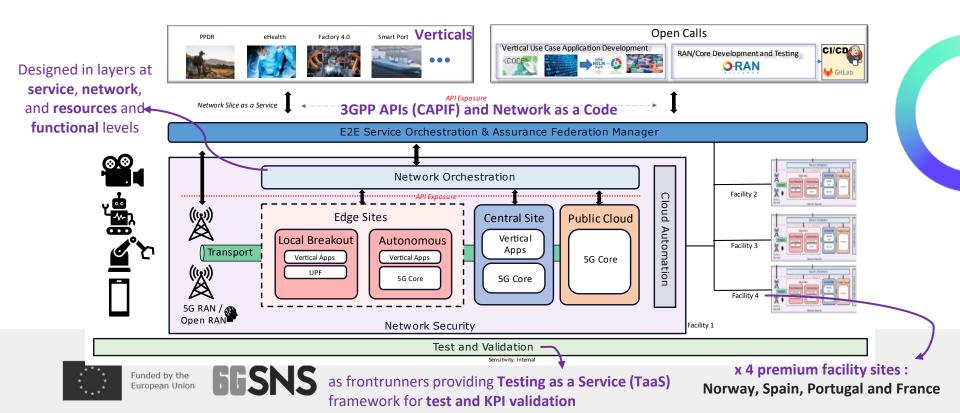


	Jan-	23											Jan-2												Jan-2											
Task Name	1	2	3	4	5	6	7	8	9	10	11	. 12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
WP1 Ecosystem and Platform Architecture (TID)																																				
T1.1 B5G Use Cases and KPI/KVI Requirements (TID)			D1.1									D1.1												D1.1						D1.1						
T1.2 IMAGINE-B5G Integrated Platform Design (ITAV)						2																														
WP2 Platform Development, Integration and Readiness (EUR)																		4																		
T2.1 RAN Readiness (EUR)																																				
T2.2 Core Readiness (NOK-S)								D2.1																			D2.2									
T2.3 Orchestration and Platform Automation (NOK-F)								PR1										D2.2 PR2									PR3									
T2.4 APIs Development and Readiness (ITAV)								D2.3																			D2.3									
T2.5 Platform Continuous Technology Integration (TNOR)										T							3																		\wedge	
WP3 Vertical Trials and Pilots (CAP)																		1								V									\sim	
T3.1 Slice-based Vertical Service Design (NOK-F)												D3.1																		D3.1						
T3.2 Vertical Trials Preparation (CAP)																	D3.2									D3.2									D3.2	
T3.3 Vertical Trials Execution (FV)										1	Γ						D3.3					IT				D3.3									D3.3	
WP4 Validation (KEY)										4.																										
T4.1 Application Level (ALB)							D4.1											D4.1									D4.1									
T4.2 Management Level (KEY)																	D4.2									D4.3										D4.3
T4.3 Societal Level (AUEB)																																				
WP5 Open Calls and Support to Third Parties (UiO)																																				
T5.1 Call for Users and User Selection (UiO)						0C1												OC2						OC3												
T5.2 Open Calls Admin and Financial Management (SETU)									D5.1	1									D5.2																D5.2	
T5.3 Technical User Support (UiO)																																				
WP6 Exploitation, Standardization and Communication (UW)																																				
T6.1 Exploitation (ADS)																					D6.4														D6.5	
T6.2 Standardisation and Open-Source Contribution (SRUK)					D6.1												D6.2	D6.3								D6.2									D6.3	D6.2
T6.3 Communication and Dissemination (UW)																																				
WP7 Project Management (UPV)																																				
T7.1 Project Coordination (UPV)	D7.1														D7.4																					D7.5
T7.2 Technical Management and Trials Planning (TNOR)						D7.3																														57.5
T7.3 Ethics, Privacy and Data Management (UPV)					D7.2													D7.2																		D7.2

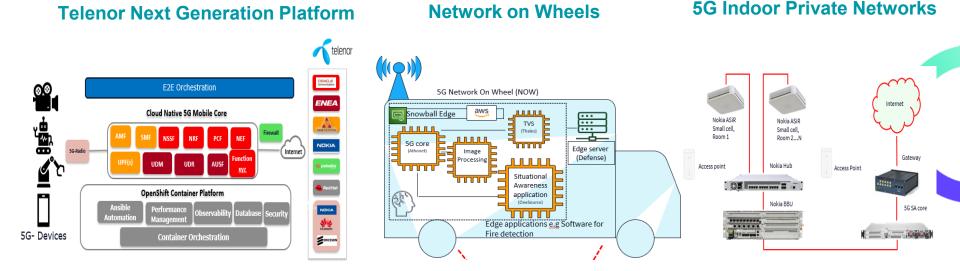




IMAGINE-B5G PLATFORM



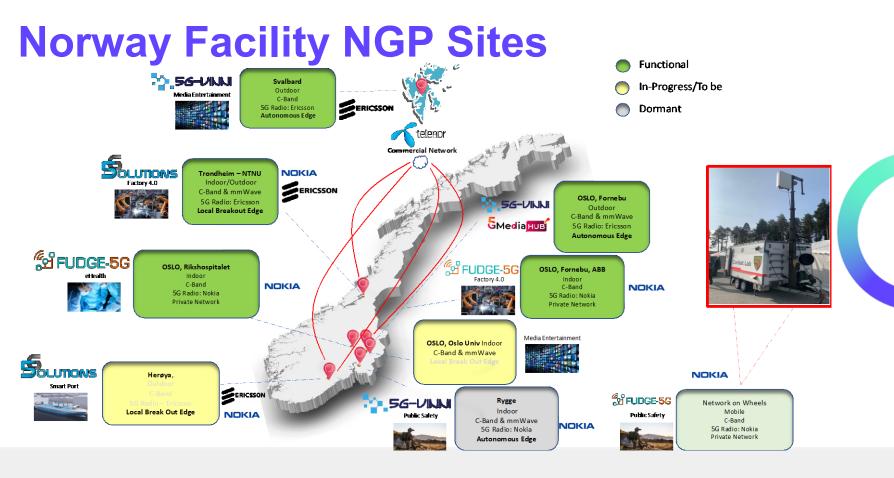
Norway Facility – Infrastructure





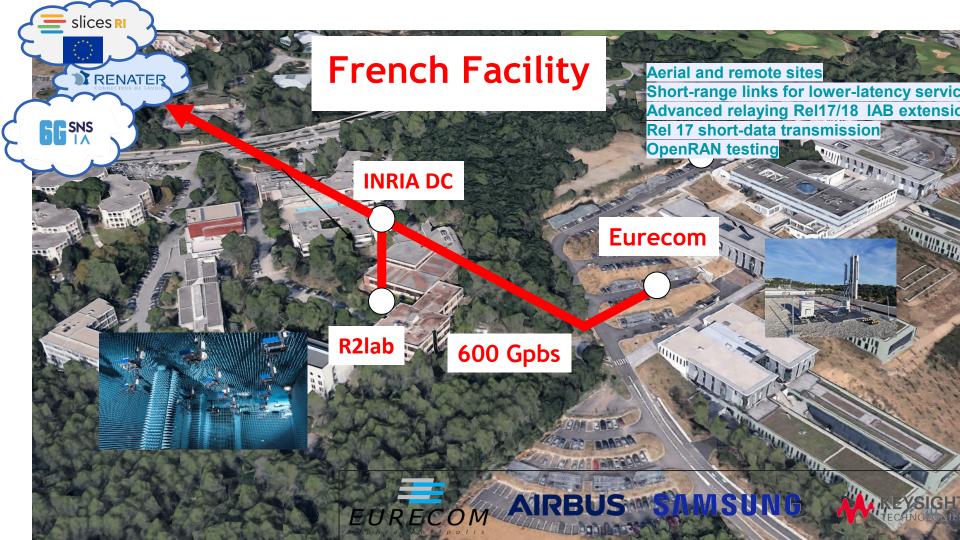




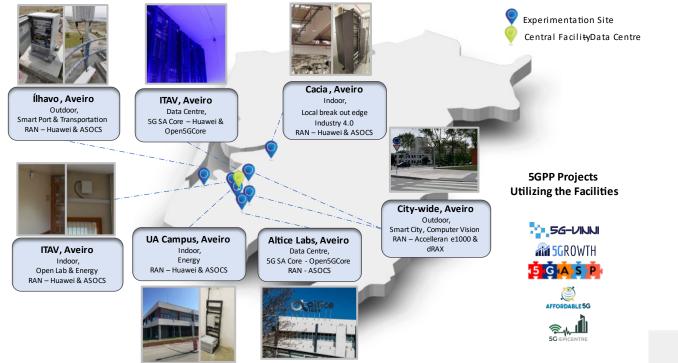








Portuguese Facility Geographical Overview



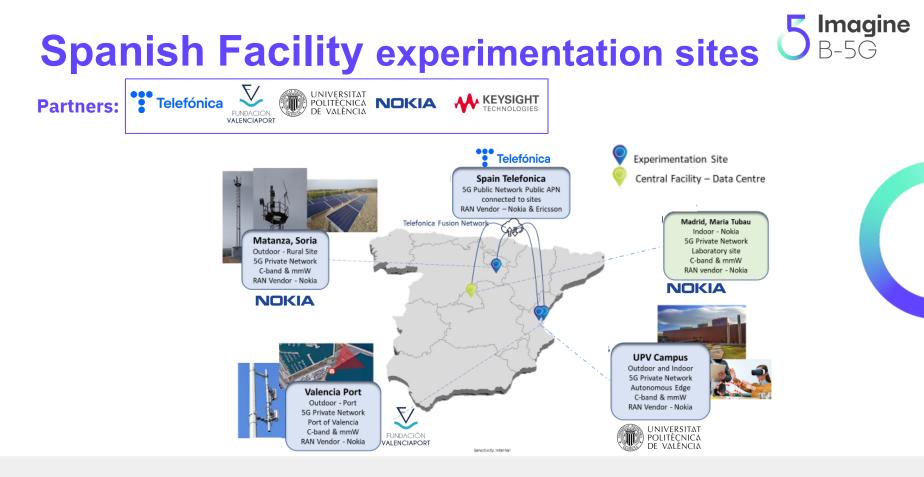
altice Capgemini

instituto de telecomunicações





ubiwhere







Vertical stakeholder AB



x15 vertical associations and companies

Role:

- Define the vertical use cases for the open-calls and their KPIs & KVIs
- Participate in the user selection (if no conflict of interest is present)
- Possibility of participating in the large-scale trials and pilots (for vertical companies)
 Expressed interest: ABB, NDMA, NRK, RTVE, ISTEC, LLW, ITACYL and VPA
- Promote the participation of their affiliates in the open-calls for vertical experiments (for associations)
- Validate the results obtained in the project



Acronym	Name	Logo
NDMA	Norwegian Defence Materiel Agency	NORWEGIAN DEFENCE MATERIEL AGENCY
ISTEC	ISTEC	
INOVA	Associação de Empresas para uma Rede de Inovação em Aveiro	
VSA	Valencian Shipping Association	
PSCE	Public Safety Communication Europe	PSC Europe Notic Science Communication Gurage
VPA	Valencian Port Authority	valenciapont Autoridad Portuaria de Valencia
EBU	European Broadcasting Union	EBU
NRK	Norwegian Norsk rikskringkasting	NĽK
RTVE	Radio Televisión Española	rtve
DC	Digital Catapult	CATAPULT Cognil
TICE	The National Portuguese ICT Cluster	🖸 tice.pt
ABB	ABB	ABB
AIOTI	Alliance for Internet of Things Innovation	AI©TI
LLW	La Loba Winery	
ITACYL	Technical Institute of Castilla y León	INSTITUTO TECNOLÓGICO AGRARIO





IMAGINE-B5G verticals & stakeholders



List of AB stakeholders and related verticals

		Norway	Spain	Portugal	France	Vertical Stakeholders (AB & Partners)
B	PPDR	•	•	٠	•	NDMA, ISTEC, INOVA, VPA, FV, PSCE
000 °¶	Media	•	•		٠	EBU, NRK, RTVE, ISTEC , INOVA, DIGICAT
	Transport & Logistics		٠	•		VPA , VSA, TICE
	Industry 4.0	٠		٠	٠	ABB, AIOTI, INOVA, TICE, DC
	Education	•	•			UPV, UIO, SETU, AUEB
	Agriculture & Forestry	•	٠		٠	LLW, ITACYL
$\langle \! \! \! \! \rangle \rangle$	eHealth	•		•		AIOTI, INOVA, TICE

(*) In bold vertical stakeholders willing to participate in large- scale trials and pilots.







Open Calls

- Budget: 4.6 M€ (40% of the proposal budget)
 - **2.3 M€** for **SMEs, scaleups and start-ups** (i.e., 50% of the total open-call budget, 20% of the total project funding)

Objective:

- To enable European-led innovation, fast track adoption
- To stimulate private sector investment, across verticals towards the conceptualization, development, experimentation, and validation of novel vertical applications in the current and the future B5G ecosystem
- Around 50 projects through FSTP open-calls.
 - for platform extension (9 13 projects)
 - for vertical experiments (34 44 projects)
- 3 rounds of open-calls

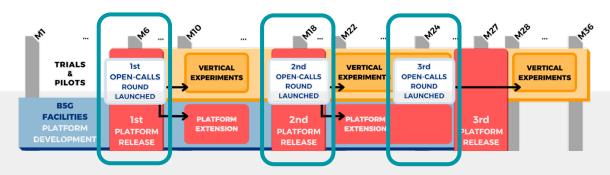
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- associated with a release of the platform
- M6 (June 2023), M18 (June 2024), M24 (December 2024)





	Call #	Type of call	Number of Funded projects	Grant per project [up to]	Total						
	OC1 - published at M6 with a start date in M10										
	OC1-Ver	Vertical Experiments (Trials and Pilots) - up to 12 months	11-15	€100.000	€2.000.000						
	OC1-Ext	Platform Extensions (HW&SW) - up to 18 months	4-7	€150.000	62.000.000						
	OC2 - published at M18 with a start date in M22										
s , 	OC2-Ver	Vertical Experiments (Trials and Pilots) - up to 12 months	13-17	€100.000	€2.000.000						
	OC2-Ext	Platform Extensions (Stream A &B) - up to 12 months	5-8	€100.000	€2.000.000						
	OC3 - pub	lished at M24 with a start date in M28			•						
	OC3-Ver	Vertical Experiments (Trials and Pilots) - 6 months until the end of the project	10-12	€60.000	€600.000						
	Totals		43-57		€4.600.000						





Project Kick-Off Meeting

1st – 2nd February 2022 UPV Campus | Valencia, Spain





Ciudad Politecnica de la Innovacio (CPI) | I Camí de Vera, s/n Valencia, Spain, 46022 <u>https://goo.gl/maps/MbcoVRVcWc2t8T197</u> Local Organizer: David Gomez-Barquero | <u>dagobar@iteam.upv.es</u>





Thanks for your attention!

If interested, follow us:

www.imagineb5g.eu https://www.linkedin.com/showcase/imagine-b5g/

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