



**Vertical Innovations in Transport And Logistics over 5G  
experimentation facilities**

***OSM#15 Ecosystem Day***

**Experimenting with Network Applications for Transport  
& Logistics in 5G testbed**

**Juan Manuel Sen, DHL**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 101016567.



- VITAL-5G project: Quick overview
- Assets offered to the 3<sup>rd</sup> party experimenters
- VITAL-5G Hackathon

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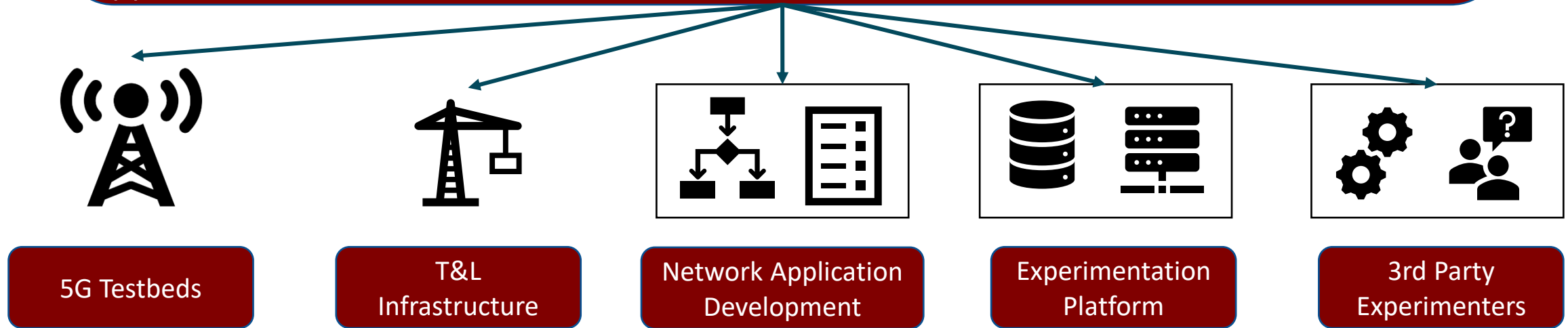
## VITAL-5G project overview





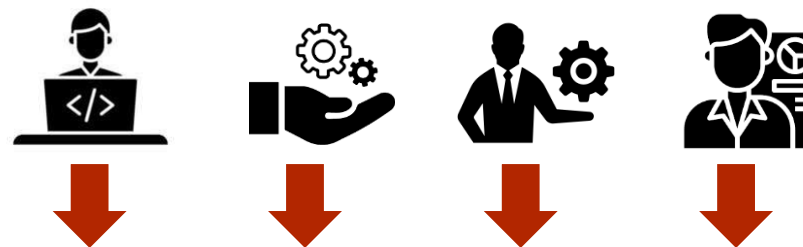
## VISION

To enable the creation of 5G-enhanced services for the Transport & Logistics (T&L) industry by bridging the knowledge/expertise gap between the T&L sector, telecommunication experts and application developers. VITAL-5G will engage key logistics stakeholders (sea and river port authorities, road logistics operators, warehouse/hub logistic operators, etc.) and innovative SMEs, offering them an open and secure virtualised 5G environment to test and validate their T&L-related, cutting-edge Network Applications





# Concept



VITAL-5G Experimentation Services

VITAL-5G Open Platform administrator and technicians



VITAL-5G Platform

T&L Site Infrastructure Manager



VITAL-5G Testbed (Antwerp)

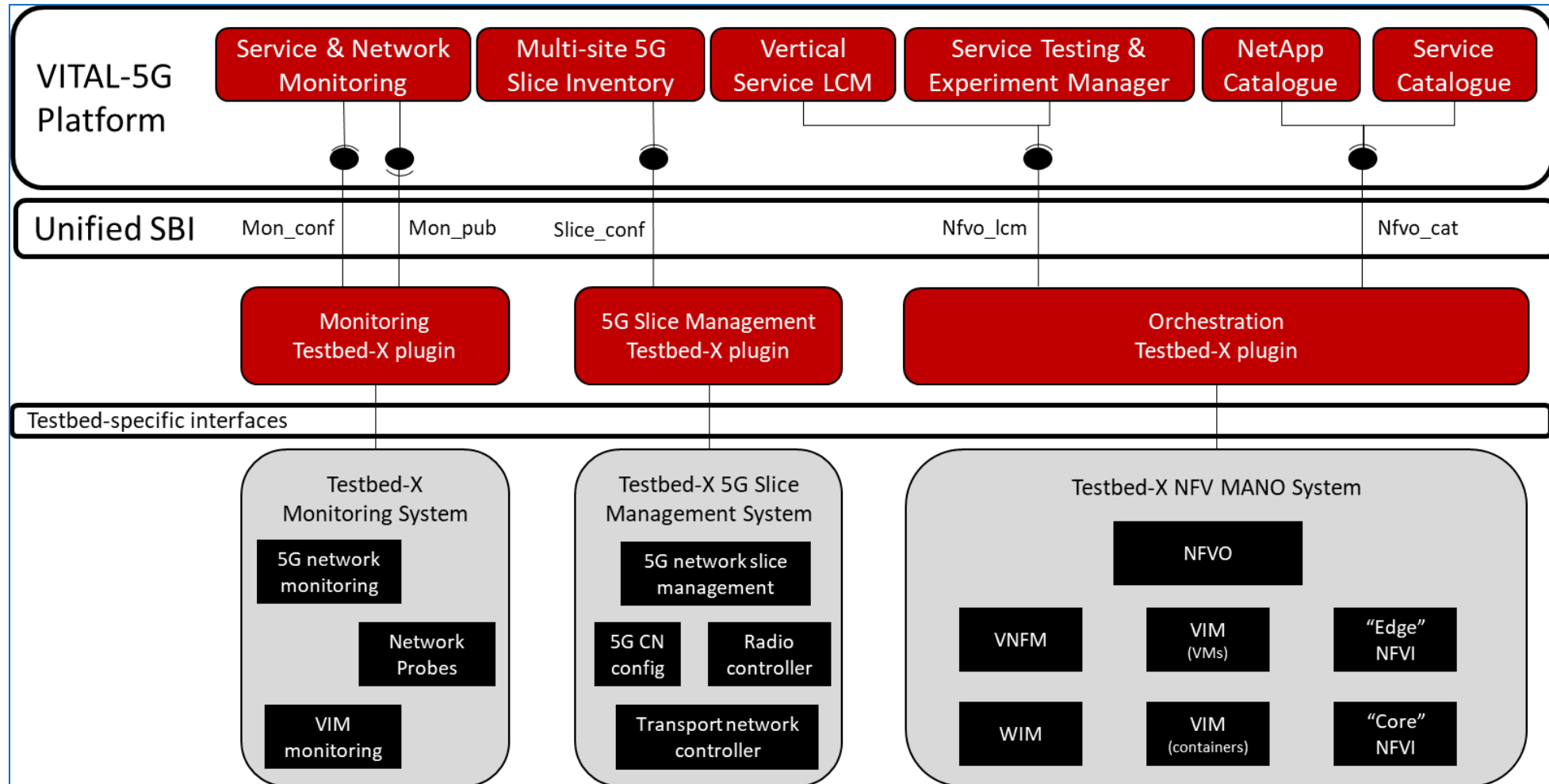
VITAL-5G Testbed administrator and technicians



VITAL-5G Testbed (Galati)

VITAL-5G Testbed (Athens)

# VITAL-5G Functional Architecture

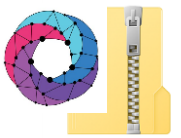


Unified interfacing approach between VITAL-5G platform and VITAL-5G testbeds


Network Application blueprint



VNF package




1 Upload Blueprint 2 Upload VNFs



Choose File or Drag & Drop

[Choose File](#)

[Next >](#)



### VNF Packages

[+ Compose a new VNF](#)

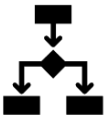
Just drag and drop files or click here to upload files

Entries 10

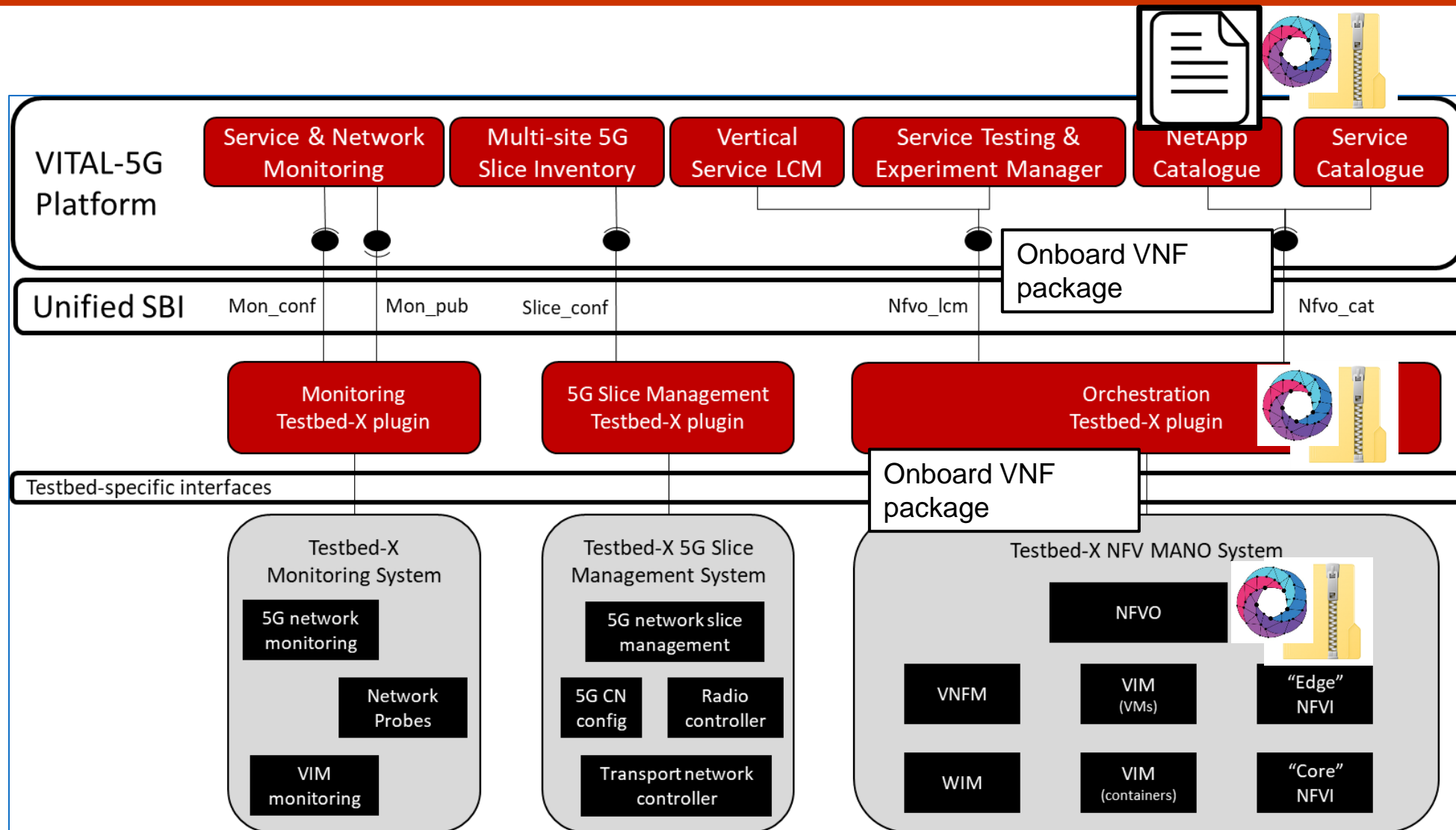
Product Name	Identifier	Version	Provider	Type	Description	Actions
iot-event-alert-manager	0efe1afe-304f-46c9-8037-99dc2638c998	1.0	Nextworks	vnfd	A basic VNF descriptor w/ one VDU	<a href="#">Action</a>







# VITAL-5G Blueprint onboarding (II)







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## Available assets for the 3<sup>rd</sup> party experimenters



# Join Us



Are you:

- i) An innovative SME that is looking for their next big step in developing vertical or agnostic services?
- ii) A start-up that needs a foot ahead of the competition in developing new technologies?
- iii) A researcher that requires **FREE** access to experimentation facilities to enrich their research with experimentation in real-life environments?

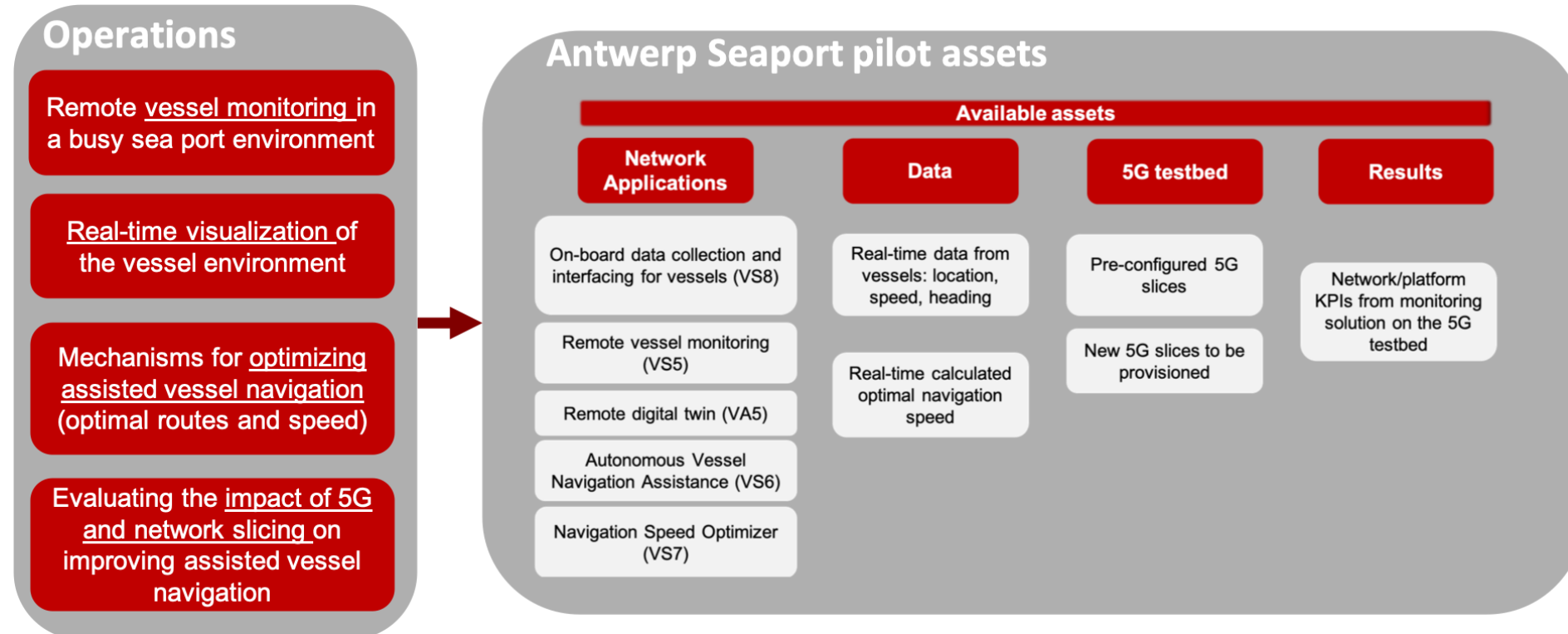
Then **VITAL-5G** wants to help you develop and/or test your vertical services for the T&L sector or try your agnostic service development by:

- Getting **FREE access** to the latest state-of-the-art testbeds technologies based on 5G systems and T&L facilities
- Getting **FREE access** to resources for your experimentation needs, thereby getting a chance to validate your optimization mechanisms for T&L operations in a real-life environment
- Getting 1 on 1 support from our experts to tailor your needs on our experimentation facilities

Innovate with us: <https://www.vital5g.eu/3rd-party-experimenters-participation/>

# What assets we offer

VITAL-5G will open its unique 5G experimentation infrastructure to innovative SMEs, startups and researchers in order to develop and test their vertical services for the T&L sector.



Antwerp site available assets: <https://www.vital5g.eu/antwerp-trial-site/>

Galatsi site available assets: <https://www.vital5g.eu/galati-trial-site/>

Athens site available assets: <https://www.vital5g.eu/athens-trial-site/>

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## VITAL-5G Hackathon





# Hackathon: 5G-enabled experimentation for transport & logistics

- Why engage?
  - Opportunities to experiment with project assets and **explore the possibilities of 5G** in developing new and/or enhanced services
- **zero-cost access to technology experts from across Europe**, who will support you in developing and optimising your applications and services for use on 5G networks
- Our facilities are applicable across many industrial sectors, including Transport and Logistics (T&L), Industry 4.0, IoT, automated and remote vehicle control

Register at:



Find more info:



**VITAL**  
5G

## 5G-ENABLED EXPERIMENTATION FOR TRANSPORT & LOGISTICS *Hackathon*

VITAL-5G invites you to its first Hackathon. This is an opportunity to experiment with project assets and explore the potential of 5G in creating new and improved services. Participants will have free access to technology experts from across Europe who will assist in developing and optimizing applications and services for use on 5G networks.

Register for FREE at

- 📅 Friday, 16 June 2023
- 🕒 13:00-17:00 CEST
- 📍 Hybrid mode



**More information**  
<https://www.vital5g.eu/>





Thank you for you attention!



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