

# **The 5G EVE End-to-End Facility Webinar for ICT-19 Proposers**

**20 September 2018**

**Twitter hashtag: #5Gwebinar**

**Website: [www.5g-eve.eu](http://www.5g-eve.eu)**



This Project has received funding from the EU H2020 research and innovation programme under Grant Agreement No 815074

**Manuel Lorenzo – 5G EVE Technical Manager**



**5G EVE**

# 5G EVE Technical Overview

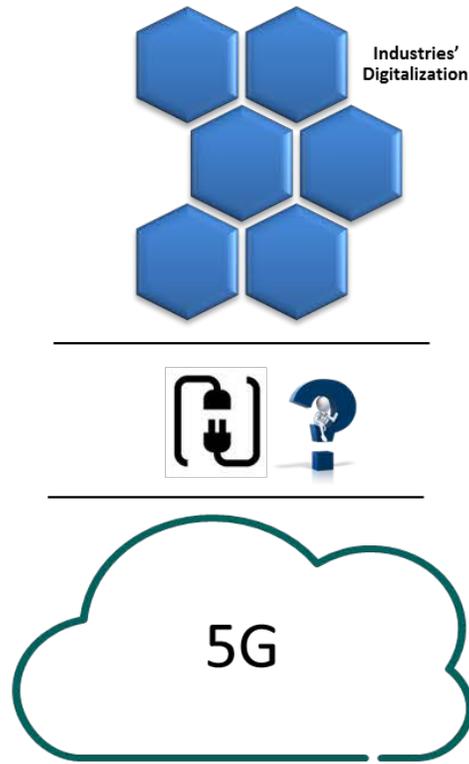
## Outline

- Let's now cover the key technical aspects of 5G EVE:
  - First, we will review why E2E 5G Validation platforms are instrumental for growing the 5G ecosystem, and how 5G EVE project translates that motivation into a technical set-up for fruitful collaboration with Verticals
  - Next, we will introduce the basics on what 5G EVE services -based on both core 5G technologies and differential 5G EVE innovations- are planned to be accessible to Verticals.
  - Then, we will share how our current technical collaboration model with 5G EVE participant verticals is, and how we propose to extrapolate it to new collaborations with ICT-19 partners

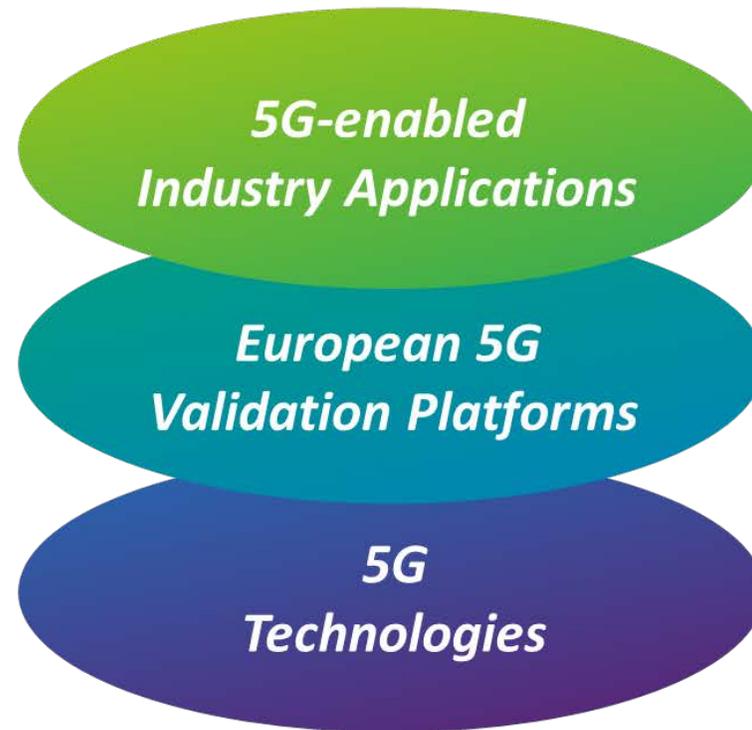


# Why an E2E Validation Platform like 5G EVE?

From: Two Worlds



To: One Innovation Ecosystem



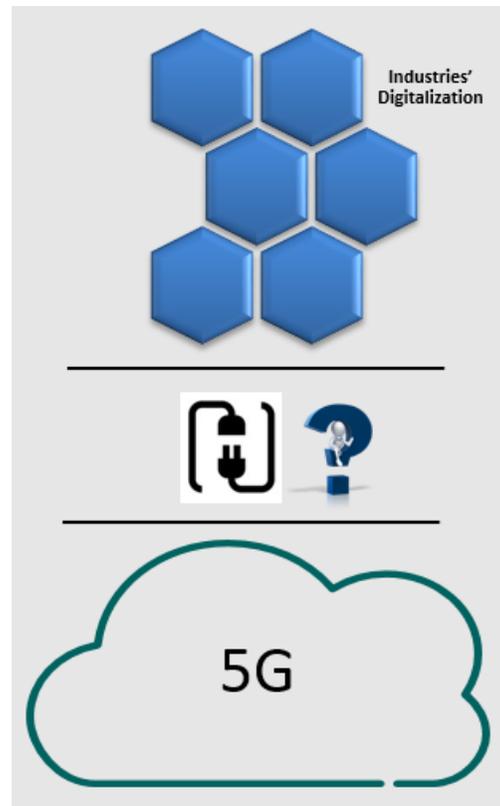
- Agile
- Diverse
- Specialized
- Transformative
- Open
- Ease-to-use
- Trustworthy
- Automated
- Performing
- Scalable
- Standard
- Secure
- Evolving



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# How 5G EVE frames that concept



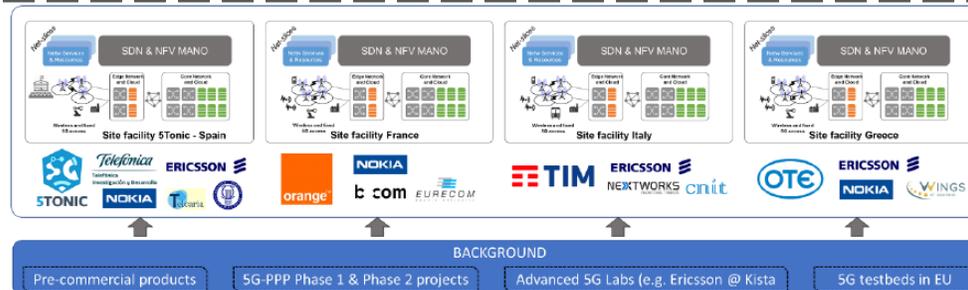
## 5GEVE Participant Verticals



## ICT-19 Proposers



**5G EVE's Integrated Portal for 5G Experimentation and Validation, with interworking capabilities among trial sites**



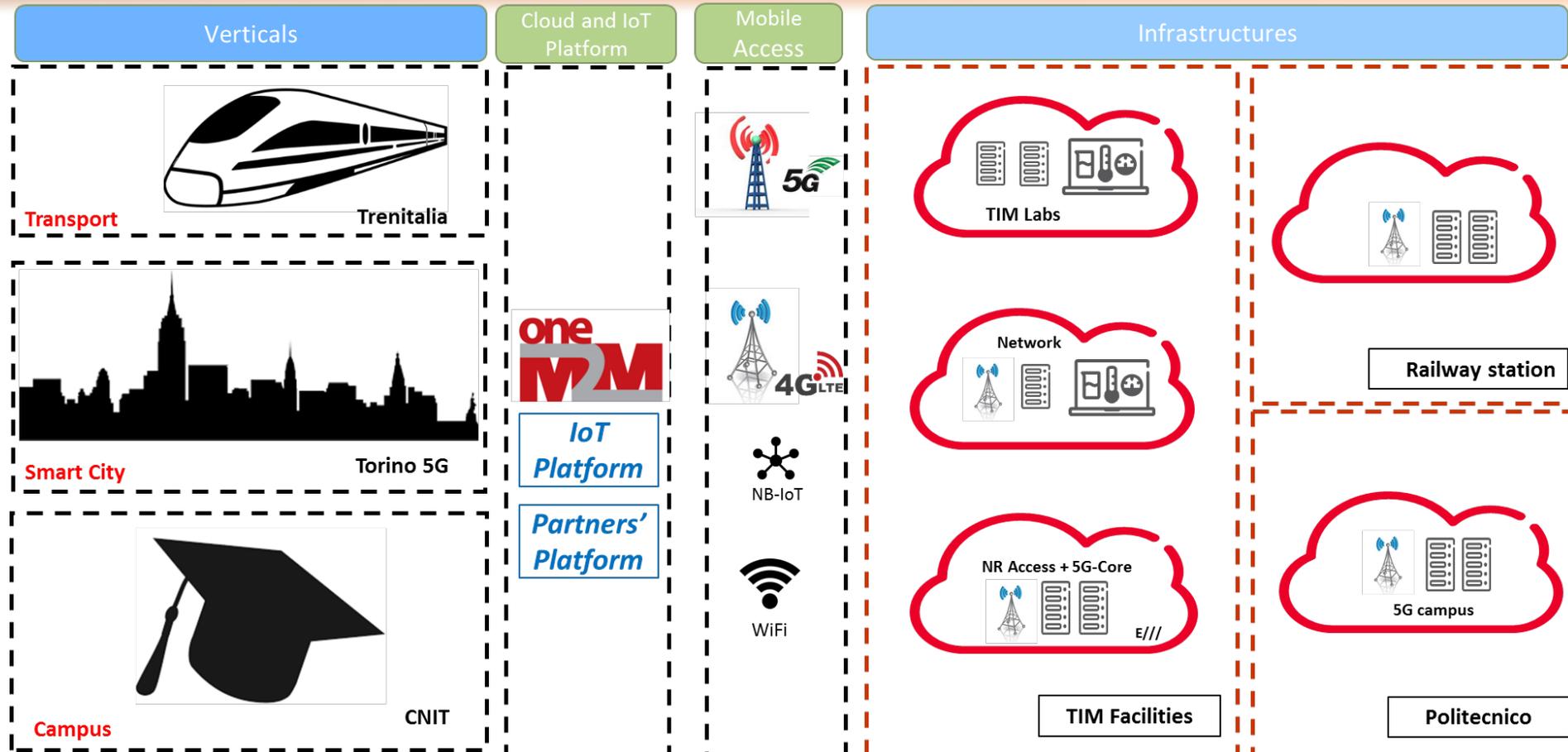
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5G EVE

# What 5G EVE can support you with

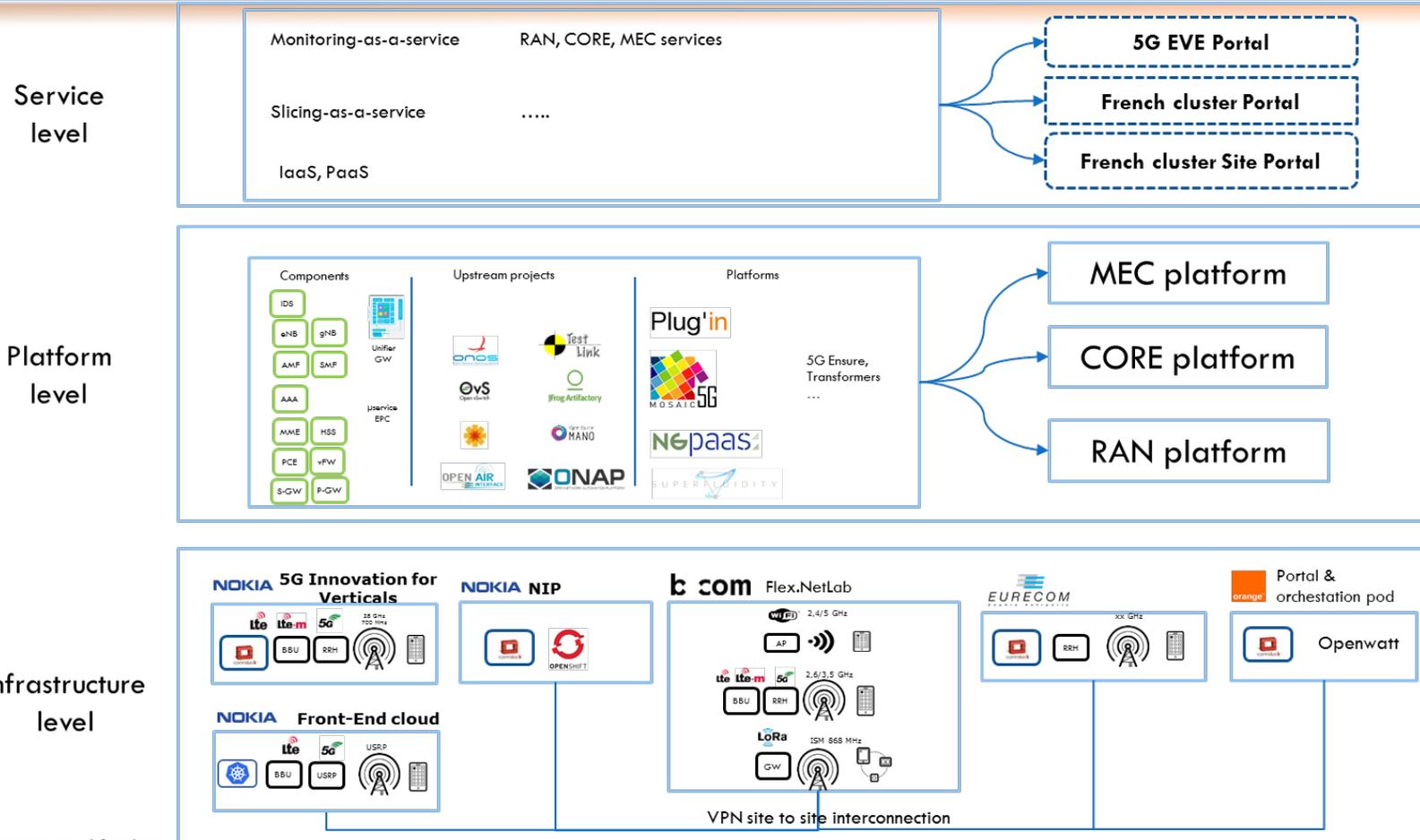
## Site Facilities - Turin



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# What 5G EVE can support you with Site Facilities - France



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# What 5G EVE can support you with

## Site Facilities - Spain

### Verticals

AGVs  
AUTOMATED FACTORY LOGISTICS



Industry 4.0

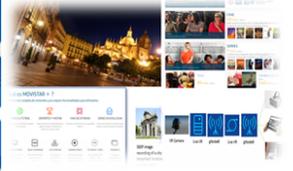
AUGMENTED FAIR



Smart Tourism



ULTRA HIGH-FIDELITY  
ON-SITE LIVE EVENT EXPERIENCE  
IMMERSIVE & INTEGRATED MEDIA



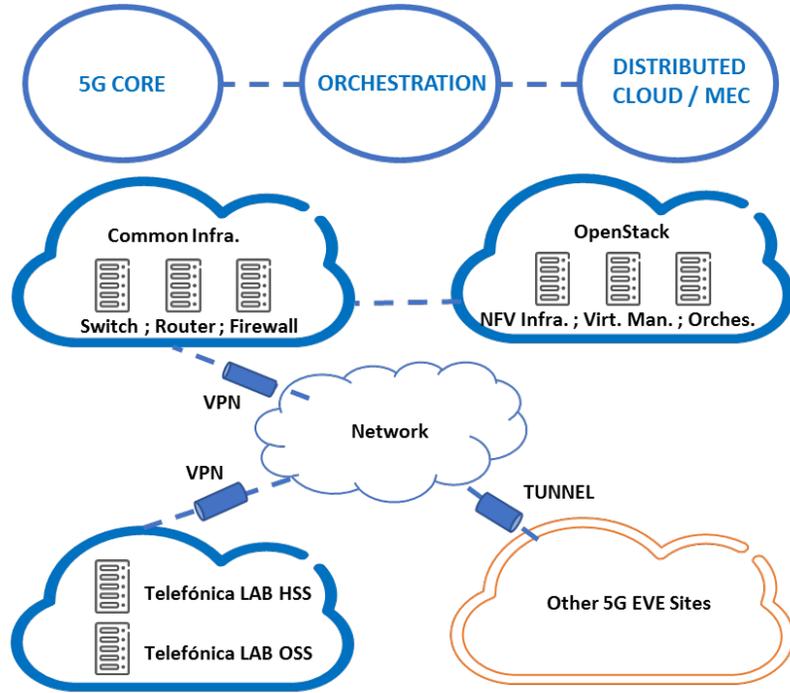
Media & Entertainment



### Radio Access



### CORE, Cloud and Orchestration

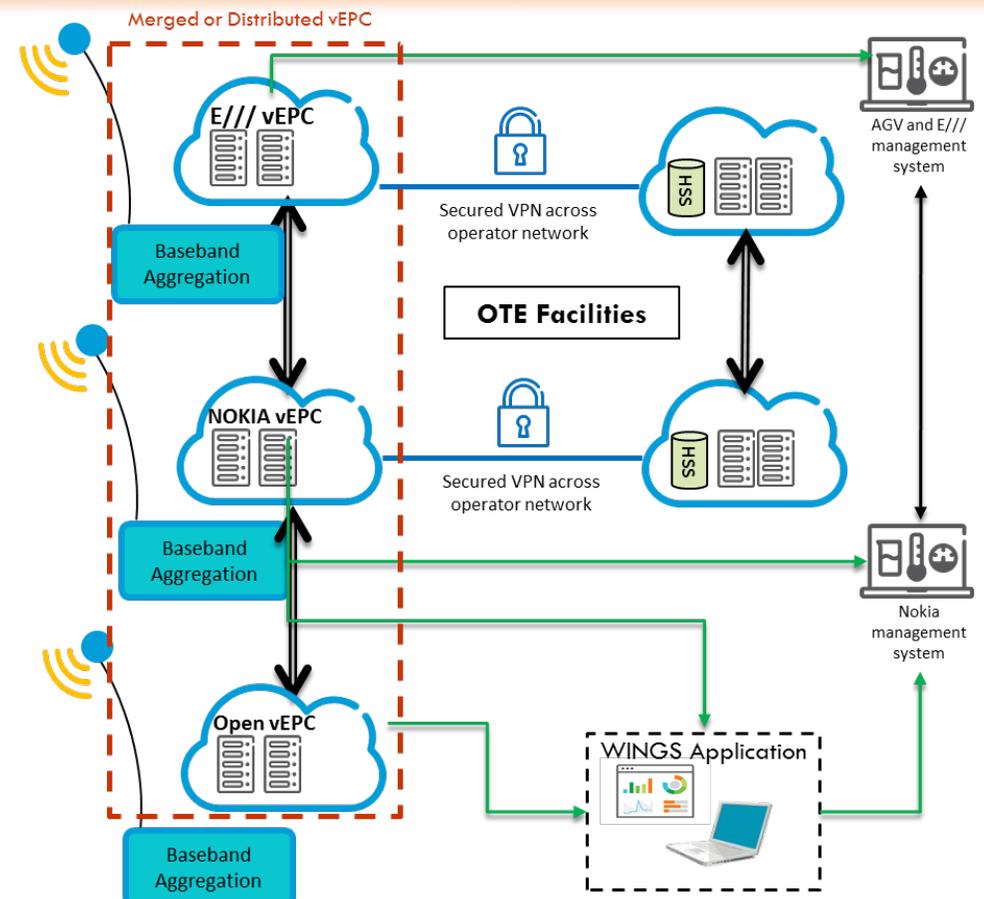
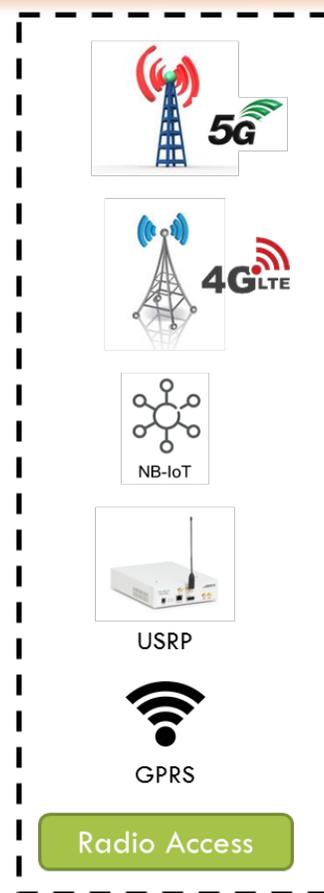
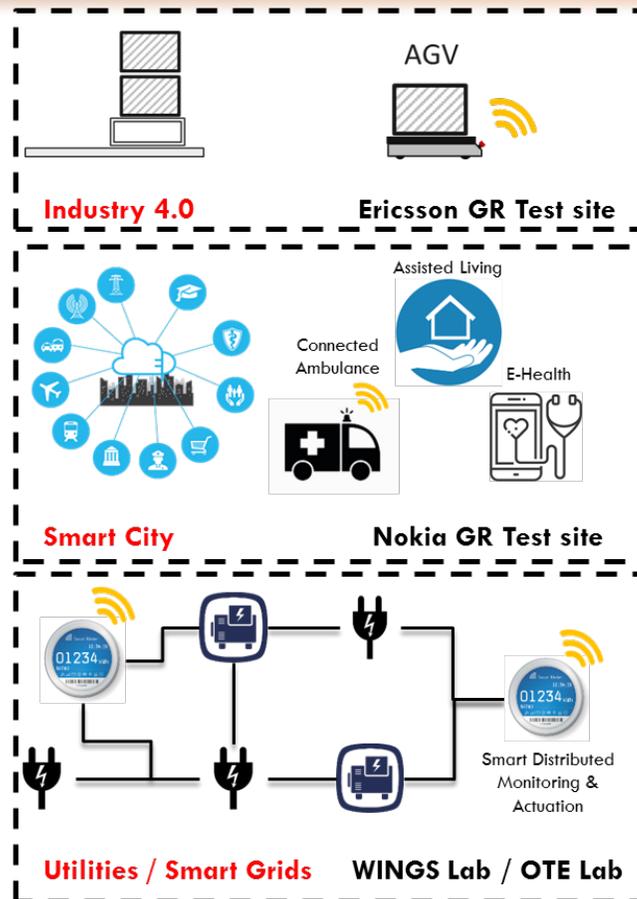


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5G EVE

# What 5G EVE can support you with Site Facilities - Greece



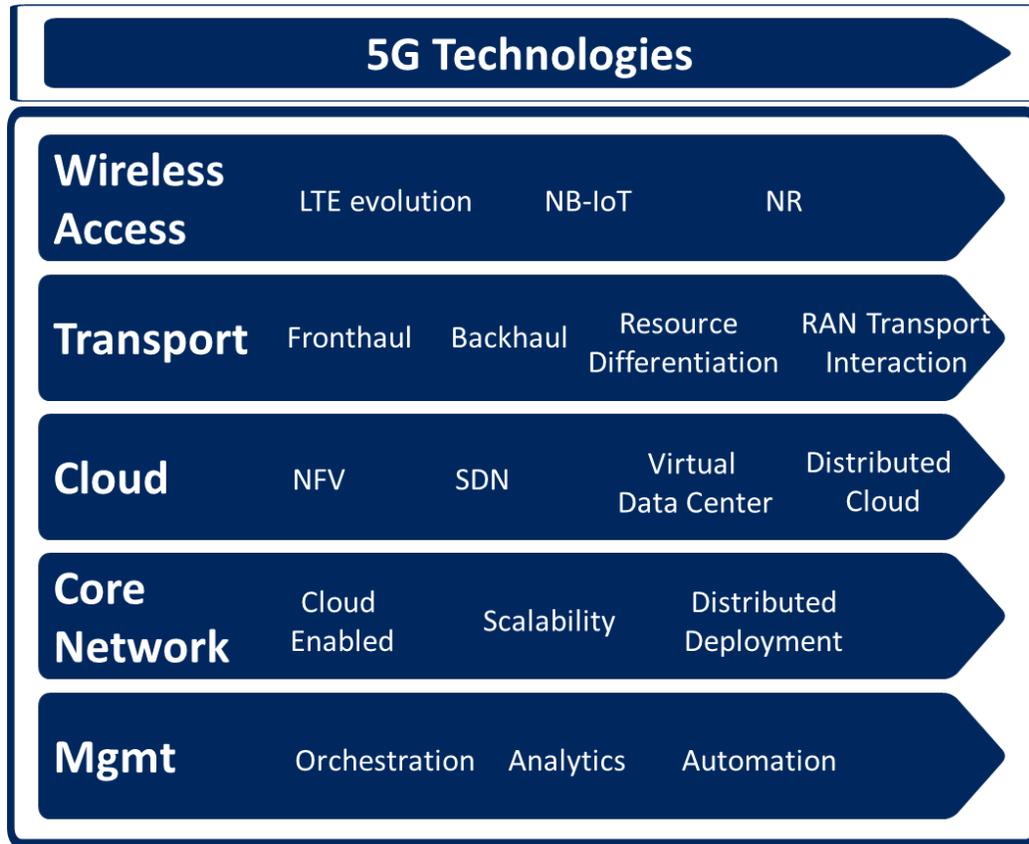
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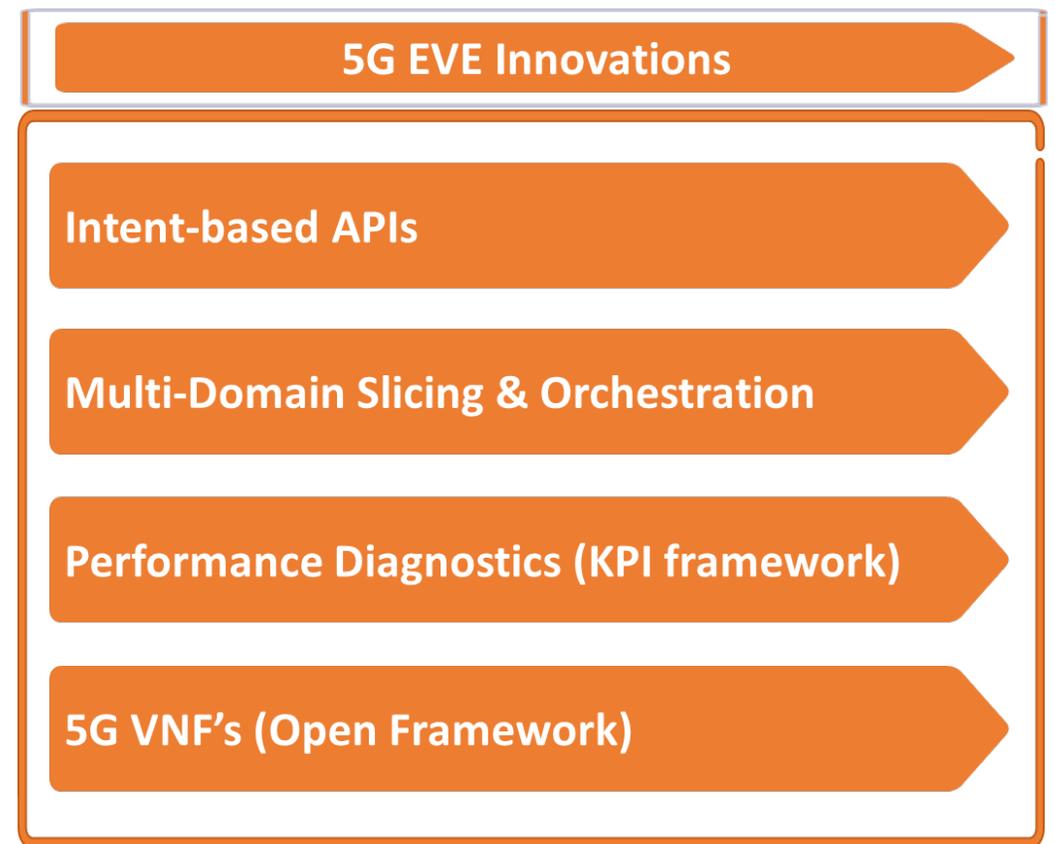
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# What 5G EVE can support you with

## Evolving 5G technologies + 5GEVE Innovations



+



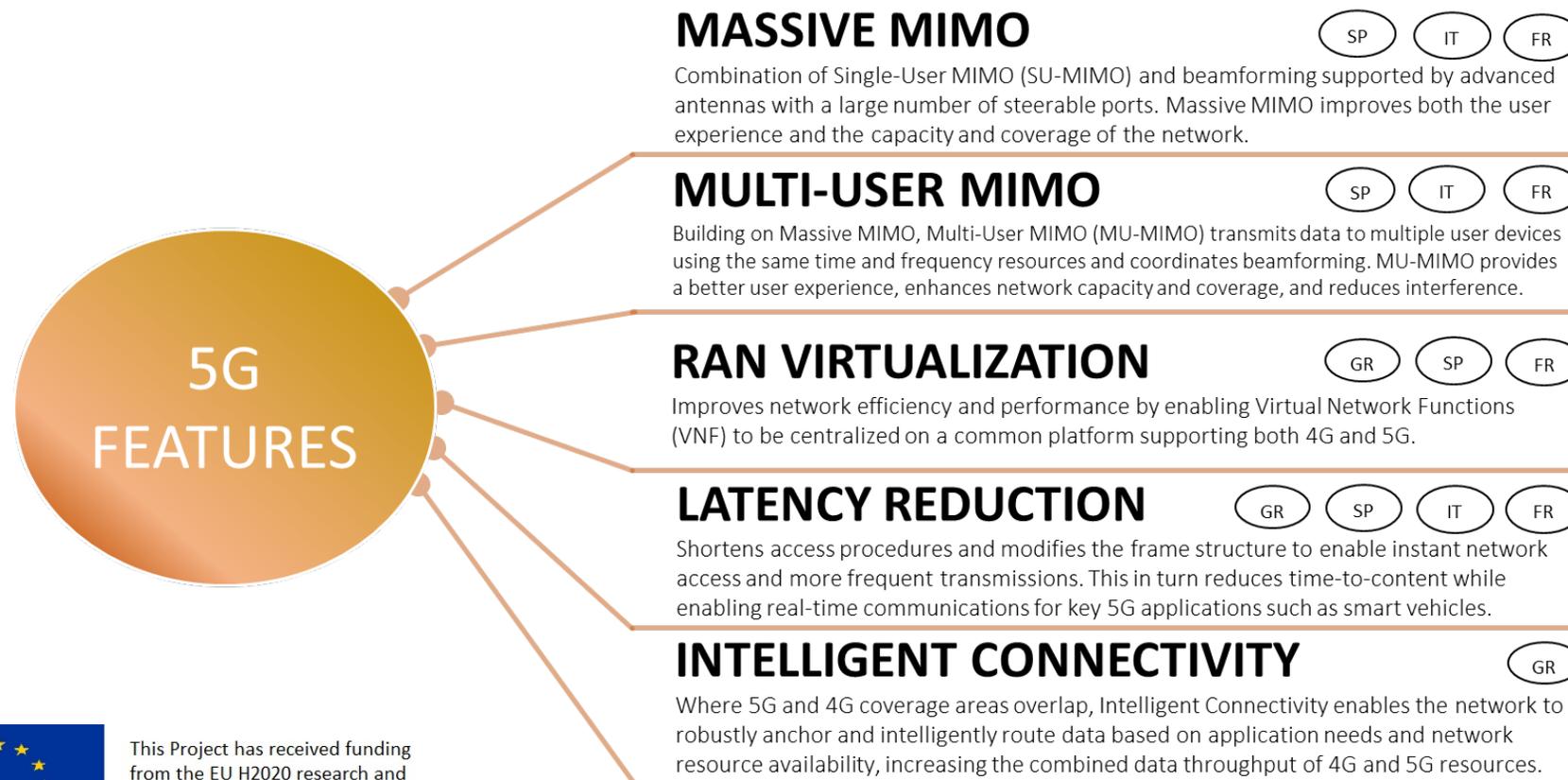
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# What 5G EVE can support you with Evolving 5G technologies for ...

## Enabling your Validation tests against State-of-the-art 5G Technologies



And those are just a few of the many 5G features supported by 5GEVE testbed



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# What 5G EVE can support you with

## 5G EVE Specific Innovations for ...

### Increasing effectiveness and efficiency of your 5G Validation activities

1

Intent-based interface  
towards verticals

A disruptive intent-based interface to simplify the access to the 5G end to end facility, specifying "what" is asked without details on "how" it is provided.

2

Multi-domain slicing  
and orchestration

A new orchestration framework with the necessary features able to manage effectively multiple site facilities, dramatically improve efficiency, prevent overload, and easily manage migration of networks components, while meeting performance requirements.

3

Performance Diagnostics  
(KPI Framework)

A completely new performance diagnosis mechanism and a new monitoring framework enabling the capturing of service and slice performance indicators, providing insight on performance.

4

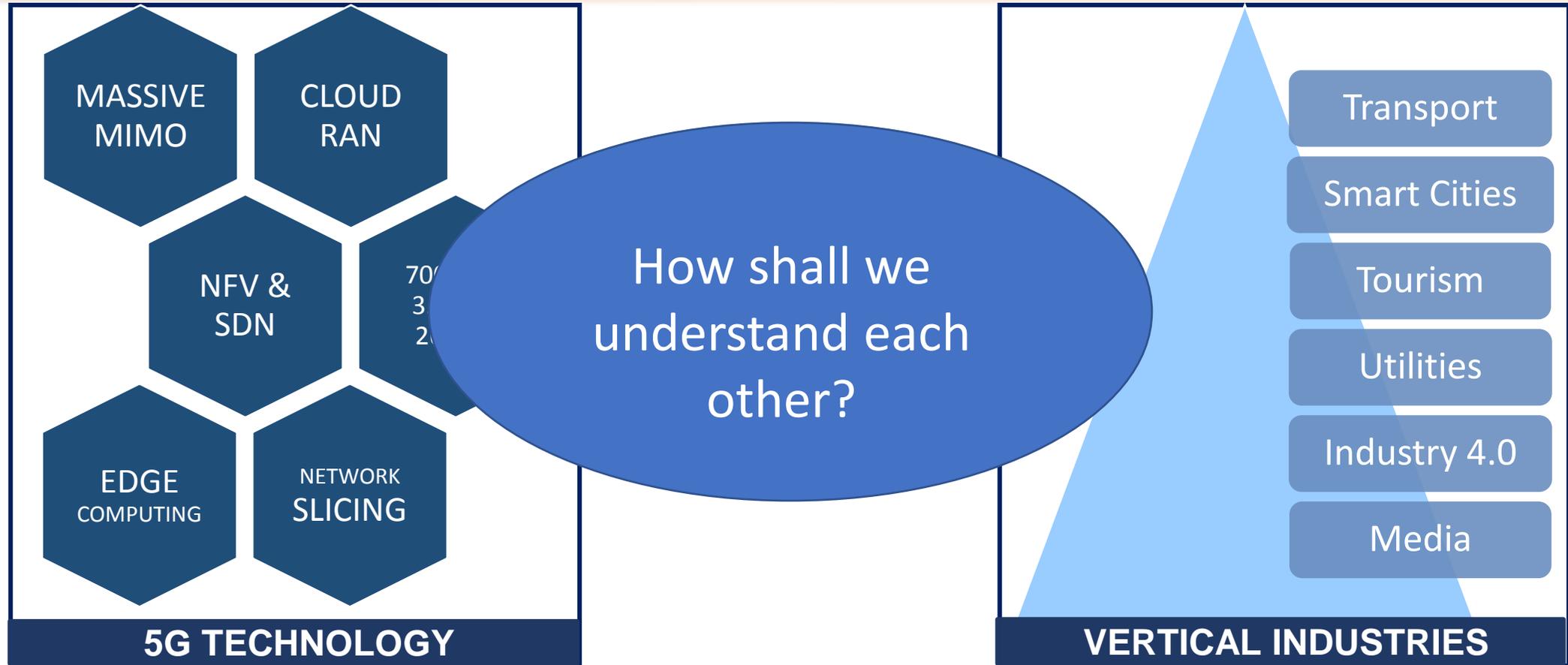
5G VNF's  
(Openness Framework)

A new framework to provide a modular, reusable set of different SFs enabling the coexistence of proprietary and open source technologies; this will allow the modular replacement and chaining of components implemented with open and novel performance acceleration techniques.



# 5G EVE: Collaboration Model – Technical Aspects

## 1. Joint Specification and Planning of the Trials



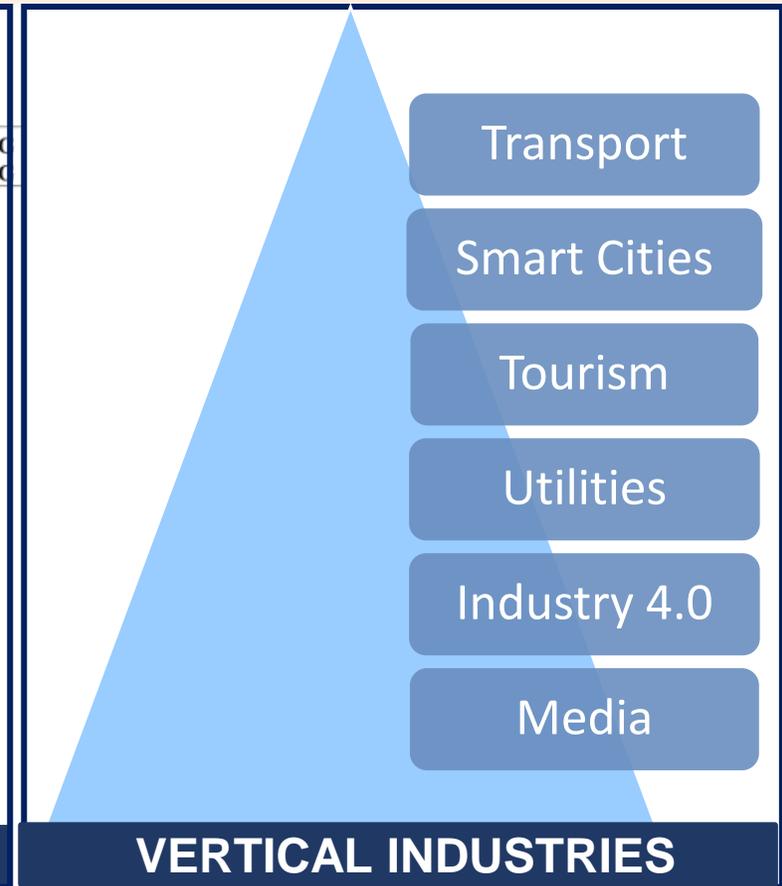
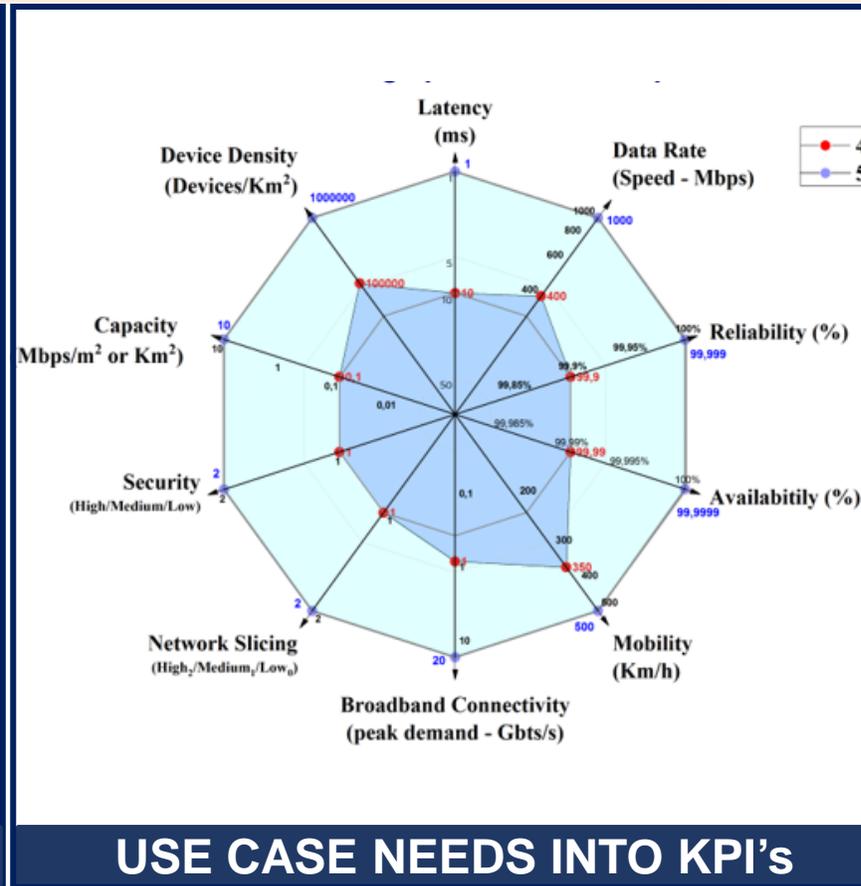
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5G EVE

# 5G EVE: Collaboration Model – Technical Aspects

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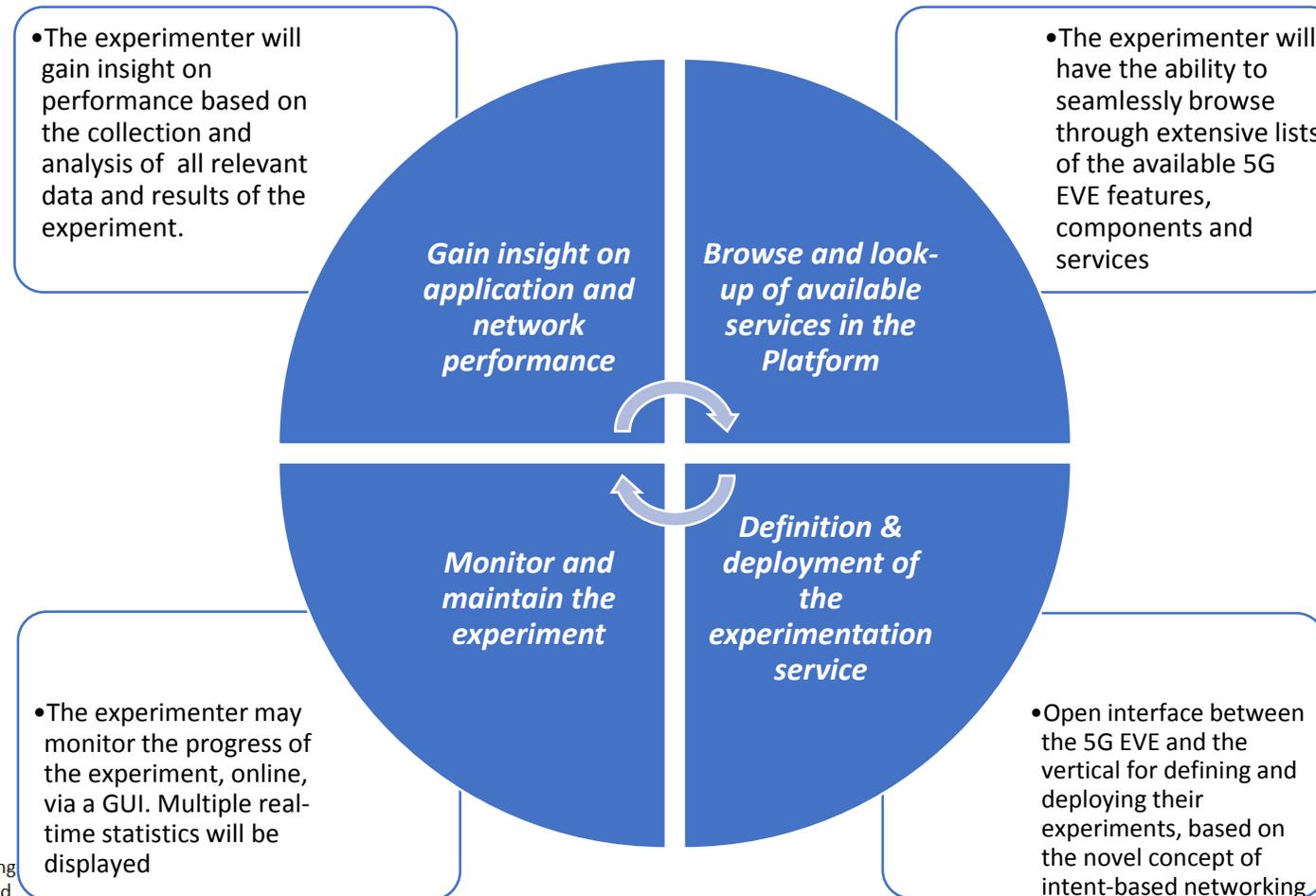
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# 5G EVE: Collaboration Model – Technical Aspects

## 2. Deployment, Execution and Analysis of the Trials



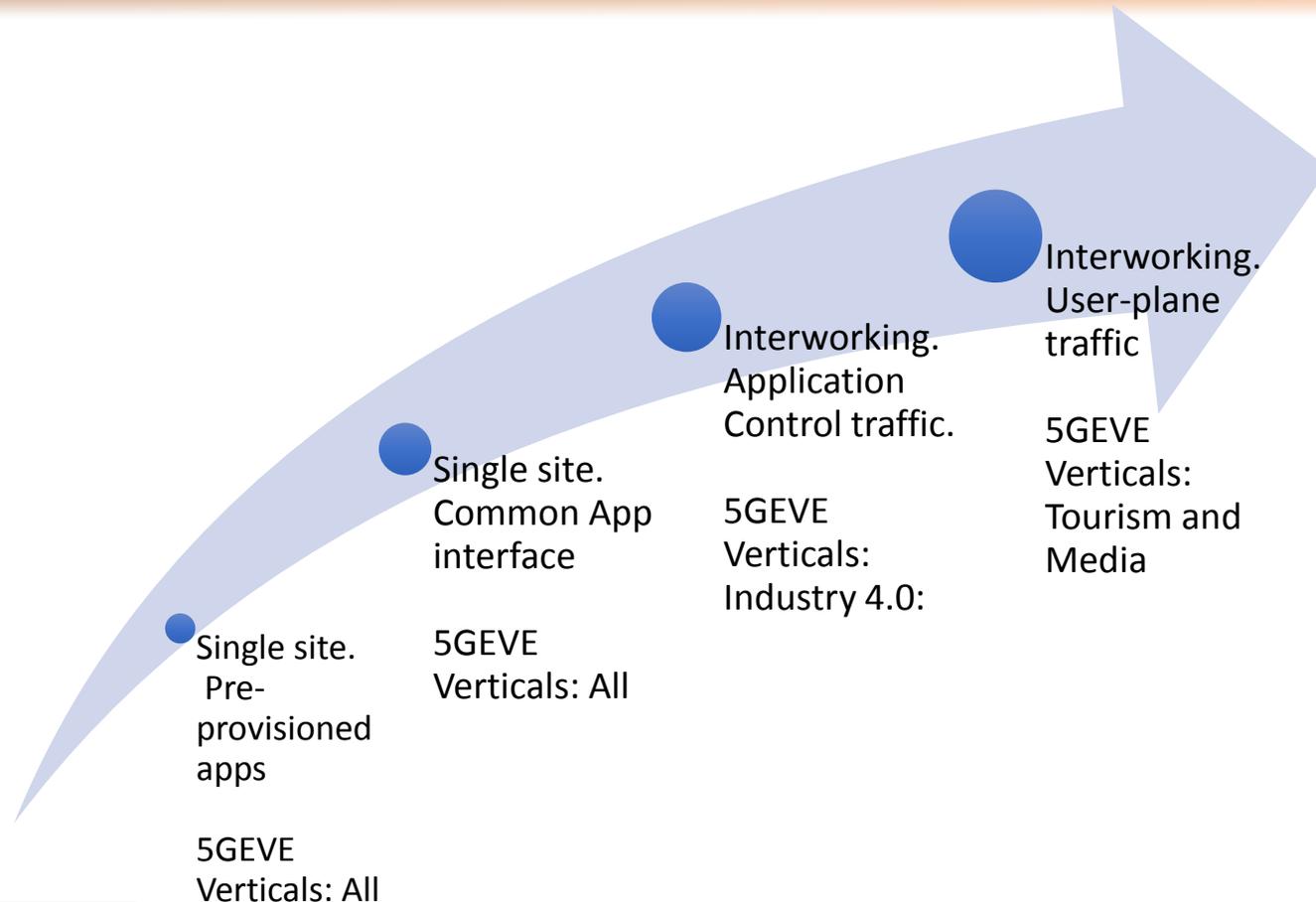
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# 5G EVE: Collaboration Model – Technical Aspects

## 3. Interworking Framework: Levels of support



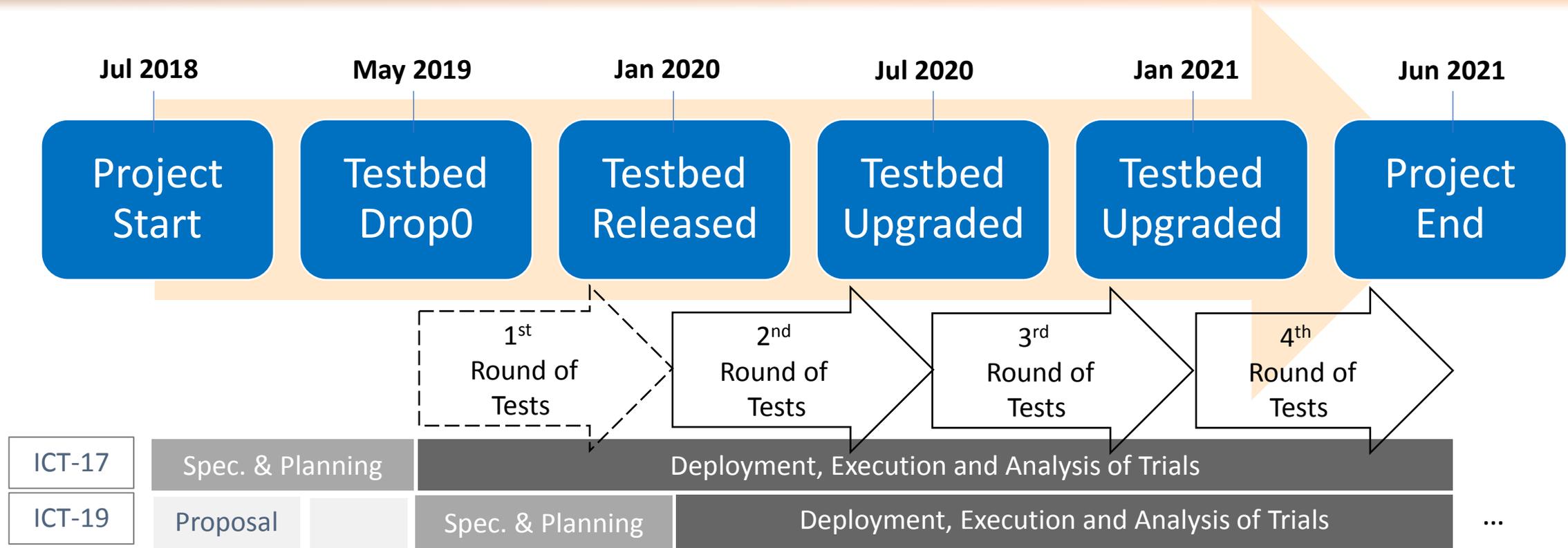
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# 5G EVE: Collaboration Model – Technical Aspects

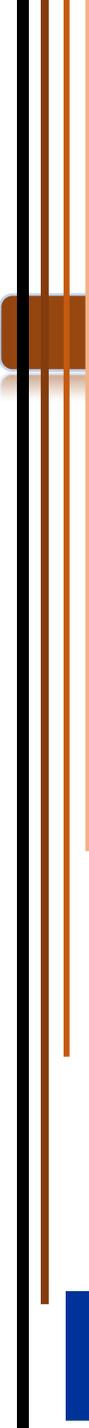
## Timeline



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# Thank you!



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5G EVE

# Useful information

General information on methodologies and solutions

→ <https://www.5g-eve.eu/>

Information on available facilities in the different sites

→ <https://www.5g-eve.eu/end-to-end-facility>

Specific requests

→ <https://www.5g-eve.eu/contact/>



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