

Standardization Challenges and Opportunities Presenting: David Artuñedo

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Project Overview



Project Name:FIDAL - Field Trials beyond 5GStream:D-01-01

Key objective: FIDAL key objective is to support beyond 5G experiments, field trials, and environments for rapid prototyping and largescale validation of advanced, forward-looking applications. A special focus is put on Network Applications.

Project website: fidal-he.eu

Targeted Results



- R1: Deployment of 3 labs and 3 large-scale facilities demonstrating 5G evolution and 6G potential.
- R2: Mature 5G evolution Experimentation framework including AlaaS, Zero Touch management & Testing as a Service.
- R3: A repository with more than 10 Network Applications.
- **R4:** A repository for open applications & AI training data.
- R5: The FIDAL Repository Service for requirements, KPIs, KVIs repository and lessons learnt.
- **R6:** Holistic Security framework adapted to 5G evolution & 6G networks and services.
- R7: Successful trails of 7 Extreme Media & PPDR Use Cases proving in large scale the potential of 5G evolution & 6G networks.
- R8: Successful onboarding, trailing and analysis of approximately 28 Diverse Open Call Use Cases and related large-scale trials.
- **R9:** 3 Demonstrators targeting wide audience.



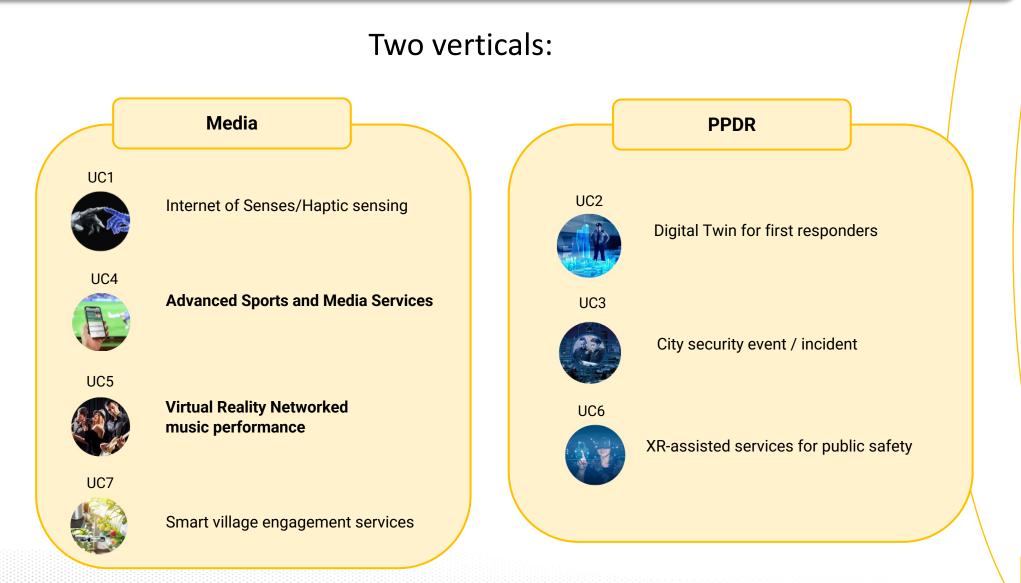
1.Development of FIDAL Use Cases

2.FIDAL Framework Integration

3.KPIs/KVIs from Open Call use cases

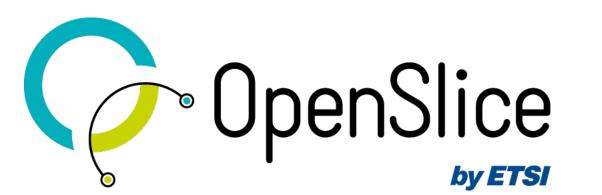
FIDAL Use Cases





FIDAL Framework Integration







FIDAL Open Call: KPIs/KVIs from use cases





A total of 28 additional use cases are expected from the two Open Calls.

Use Cases will focus on the verticals of Media, Entertainment, Emergency Service, Time Critical Applications and Services

The overall goal of FIDAL cascade/Open Call is to reach two main added values of the project:

- Involving new key actors committed to perform 5G Evolved field trials
- Ensuring the support of the needed infrastructure to deploy the proposed field trials.

The Open Calls will maximize the impact and accelerate adoption of FIDAL demonstrating **flexibility**, **user acceptance** and **technology transfer**.

Use Case trials and large-scale field testing will also provide an opportunity to test Key Performance Indicators and provide feedback to standardization bodies.

Standardization Challenges



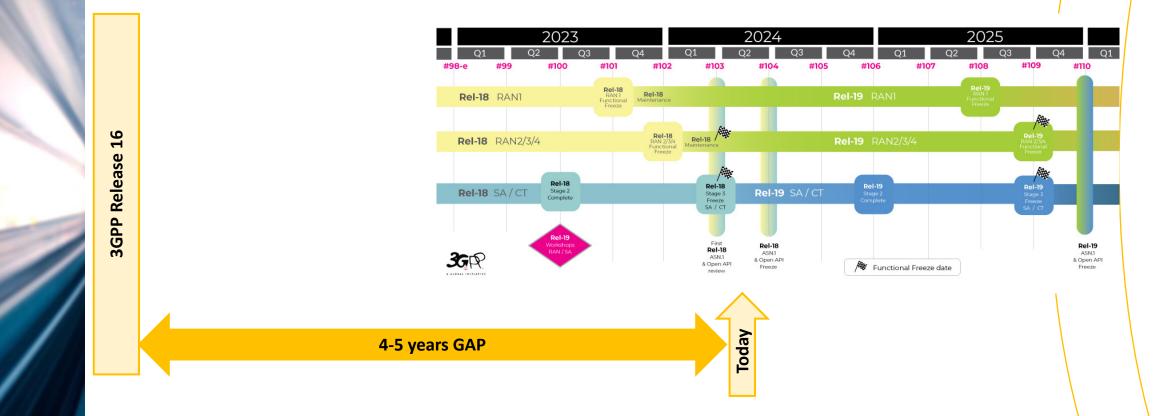
1.Standardization GAP

2.Lack of Reference Implementations

3. Translation of KPI/KVIs to SDOs

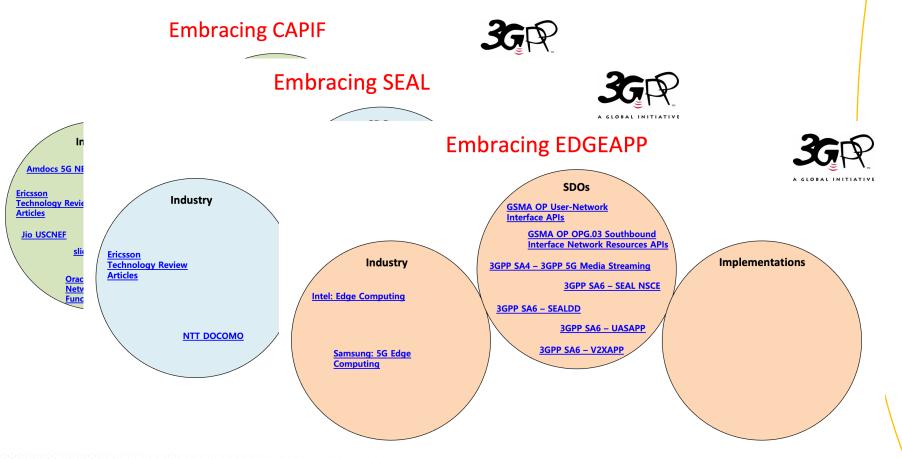
Standardization GAP





Lack of Reference Implementations

Reseearch Community has no Access to Reference Implementations of Standards (with few exceptions)



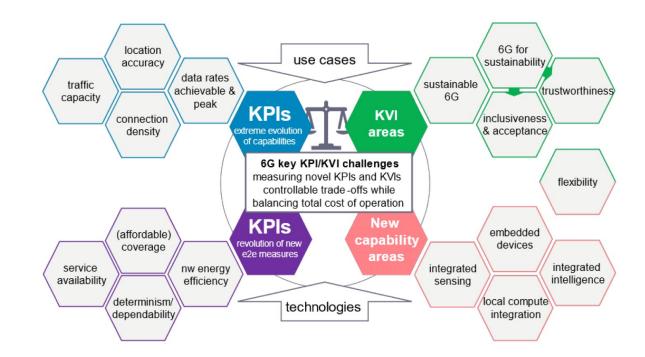
Source: 3GPP TSG-SA WG6 Meeting #58, Chicago, USA, 13th – 17th November 2023

Translation of KPIs/KVIs to SDOs



Extensive work is being performed on KPI/KVI definition for B5G and 6G in TMV WG, Hexa-X, Verticals....

Hard for Partners to identify how to channel Use Cases results into actions in SDOs



Source: https://hexa-x.eu/wp-content/uploads/2021/05/Hexa-X_D1.2_presentation.pdf





Thank you!

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