

5G SOLUTIONS for European Citizens

In this issue:

5G-SOLUTIONS Status	1
3 rd Project Meeting	2
Dissemination Activities	
• Workshops organization	2
• Publications	2
• White papers	3
• Press releases	4
• Success stories	4
Deliverables	5
Social media	5

Consortium



Newsletter
January-June 2020
 Issue Number 2

5G-SOLUTIONS Project Status

- The **first phase of 5G-SOLUTIONS** ended in November 2019, establishing the requirements and project methodologies for the use-cases.
- The **second phase**, identified by the mock-up of KPIs visualization tool, ended at May 2020. It collects data from all the respective parties, either the use case application itself or the underlying network, performs all the necessary calculations and displays the metrics to the end user in both a tabular and graphical form through a user-friendly web portal.
- The project created an **initial plan for machine-learning-based optimizations** in terms of orchestration, based on: (i) correlations of data between different domains (e.g., network and vertical domains), and (ii) predictive slicing patterns, depending on the level of access to platform orchestration data.



5G-SOLUTIONS 3rd Regular Project Meeting



The 5G-SOLUTIONS 3rd regular meeting was successfully held on April 27th, May 5th, 6th and 11th 2020. Due to the COVID-19 this meeting was held online.

5G-SOLUTIONS European Commission Project Review

The 5G-SOLUTIONS project review meeting was successfully held on May 7th. Due to the COVID-19, the project review was held online with an overall **very positive** assessment.

5G-SOLUTIONS Dissemination Activities

A. WORKSHOPS ORGANIZATION

1. *"Una piattaforma europea 5G a disposizione delle PMI" (A 5G platform available for SMEs)*

<http://www.innovability.eu/insights/#5g>

Online, June 2020

Sponsored by 5G-SOLUTIONS

Organized by A2T

RETI 5G E BUSINESS PMI: VALIDAZIONE TECNOLOGICA E SOSTENIBILITÀ COMMERCIALE NEI SETTORI CHIAVE

powered by **ITALIA5G**

REGISTRAZIONE

SPONSOR

SOLUTIONS
5G Solutions for European Citizens

Una piattaforma europea 5G a disposizione delle PMI
14:30 Intervento introduttivo
Maurizio Cecchi, Presidente, Associazione P.I.I.U.
14:40 Panoramica dell'iniziativa 5G SOLUTIONS
Andrea Di Giglio, 5G SOLUTIONS Project Coordinator – Senior Technical Manager, TIM
15:00 La promozione di prodotti e servizi 5G delle PMI europee
Yuri Chianese, Co-founder and Board Member, Chief Growth Officer, Applied Research to Technologies
15:20 Nuovi strumenti di finanziamento europei per le applicazioni 5G sviluppate da PMI
Maurizio Cecchi, Presidente, Associazione P.I.I.U.
15:45 break
16:00 Presentazione dei prodotti e servizi delle PMI selezionate
Modera: Yuri Chianese, Co-founder and Board Member, Chief Growth Officer, Applied Research to Technologies
17:00 Incontri one-to-one con partner industriali e commerciali di 5G EVE
(momento dedicato alle PMI partecipanti)
17:45 Fine della sessione

 **YURI CHIANESE**  **MAURIZIO CECCHI**  **ANDREA DI GIGLIO**

2. Call for Ideas for SMEs - Pitching Day

June 29th 2020

Organized by A2T

https://platform.younoodle.com/competition/5g_call_for_ideas

5G - Solutions for European Citizens

5G SOLUTIONS
5G Solutions for European Citizens

APPLY for June 29th Online Pitching Day of 5G SOLUTIONS "Call for Ideas for SMEs"

SHARE

5G SOLUTIONS CALL FOR IDEAS
Launch date:
 May 25, 2020, 08:00:00 CEST
Deadline date:
 September 30, 2020, 17:00:00 CEST

[CLICK HERE TO APPLY](#)

SMEs have an important role to play in developing, piloting and deploying 5G technologies to address the needs of various vertical sectors. If, on one side, the 5G PPP is aiming at 20% participation from SMEs in the projects, on the other side, ideas and features proposed by SMEs are a strategic opportunity to provide industry and academia with a simple view of what expertise and skills that SMEs can bring to 5G innovation and knowledge of vertical sectors. The win-win opportunity for 5G-SOLUTIONS, and interested SMEs are:

B. PUBLICATIONS

- **Journals/Magazines**

1. H.Chergui and C. Verikoukis, "**Big Data for 5G Intelligent Network Slicing Management**", to appear in IEEE Network Magazine.
2. A. Antonopoulos, "**Bankruptcy Problem in Network Sharing: Fundamentals, Applications and Challenges**", IEEE Wireless Communications Magazine, to appear.

- **Conferences**

1. G. Kollias and A. Antonopoulos, "**Joint Consideration of Content Popularity and Size in Device-to-Device Caching Scenarios**" IEEE ICC, 7-11 June 2020, Dublin, Ireland.
2. H.Chergui and C.Verikoukis, "**OPEX-Limited 5G RAN Slicing: an Over-Dataset Constrained Deep Learning Approach**" IEEE ICC, 7-11 June 2020, Dublin, Ireland.
3. I. Markopoulos, A. Di Giglio, B. Altman, H. Losenthagen, A. Antonopoulos, C. Verikoukis, S. Canale, M. Grandi, S. Zemouri, "**5G-SOLUTIONS Analysis of Living Labs and KPIs Definition Methodology**" in Proceedings of European Conference on Networks and Communications (EuCNC), 16-17 June 2020, Dubrovnik, Croatia.

- **Technical Articles**

1. B. Altman, "**A new Horizon**", <https://www.tvbeurope.com/business/tvbeurope-march-2020-issue-now-available>, TVB Europe, March 2020.

5G-SOLUTIONS White Papers

1. ILS, TNOR, FNET, June 2020. Business Validation in 5G PPP vertical use cases.
 - https://5g-ppp.eu/wp-content/uploads/2020/06/5G_White_paper_Business-validation-v1.0a.pdf

5G-SOLUTIONS Press Releases

1. LiveU, February 2020. Multiple magazines articles (printed and online): TV Technology, Business Insider, etc.

- <https://www.tvburope.com/media-delivery/liveu-extends-collaboration-in-5g-test-projects>
- <http://tmbroadcast.com/index.php/liveu-increases-collaboration-pan-european-eu-5g-initiatives/>
- <https://www.tvtechnology.com/the-wire-blog/5g-hevc-eu>
- <https://www.panoramaaudiovisual.com/2020/02/04/liveu-participa-nuevos-proyectos-paneuropeos-5g/>
- <https://www.broadcastbeat.com/liveu-collaborates-on-two-additional-pan-european-eu-5g-projects/>
- <https://www.4rfv.com/ARD713PMBDNE/601/liveu-collaborates-on-two-additional-paneuropean-eu-5g-projects.htm>
- <https://markets.businessinsider.com/news/stocks/liveu-collaborates-on-two-additional-pan-european-eu-5g-projects-1028875648>

2. LiveU, April 2020. TM Broadcast International, #80, ISSN: 2659-5966.

- <https://issuu.com/daromedia/docs/tmbroadcastmagazine80>

3. eBOS, May 2020. InBusiness web magazine (GR Version).

- <https://inbusinessnews.reporter.com.cy/business/ict918/article/2470791/i-ebos-technologies-ltd-protagnistei-stis-kainotomes-technologies-5g>

4. AppArt, June 2020. Federation of Hellenic Information Technology & Communications (SEPE).

- <http://www.sepe.gr/gr/information/press-releases/article/16119000/appart-and-5g-solutions-project-in-the-area-of-5g-technologies/>



5G-SOLUTIONS Success Stories

1. LiveU, February 2020. News, Success Stories - LiveU collaborates in two additional pan-European EU 5G projects.

- <https://issuu.com/daromedia/docs/tmbroadcastinternational78?fr=sZjA1MTM20Dg000>

NEWS - SUCCESS STORIES

LiveU collaborates on two additional pan-European EU 5G projects

LiveU has increased its collaboration with leading European partners on 5G Infrastructure Public Private Partnership (PPP) projects, testing and validating content contribution and media production use cases over advanced 5G Release 16 testbeds. The projects' goals are to provide the broadcast community and other verticals with insights into 5G performance in real-world scenarios. The projects are funded by Horizon 2020.

LiveU is a technology and use case partner in 5G Solutions and in 5G Solutions. Both projects test and analyze 5G performance KPIs, including media use cases related to LiveU's 5G bonding technology.

The core 5G technologies being validated include network slicing, New Radio (NR), low latency, edge/cloud computing, SON/NE.

service orchestration and more, bringing the 5G vision closer to realization. As part of these tests, LiveU's field units are being used in live events, for example, the Turin festival where orchestral music in audiences will be synchronized live with street players (5G Tour) and the Palma festival where multiple cameras will be transmitted from a crowded street (5G Solutions).

The 5G Solutions ICT 19 RIA project "5G Solutions for European Citizens" aims to prove and validate that 5G provides prominent industry verticals with ubiquitous access to a wide range of improvement over 4G, thus bringing the 5G vision closer to realization. The project

provides validation of more than 140 KPIs for 20 innovative and heterogeneous use cases that require 5G performance capabilities and that are expected to have a high future commercialization potential (EU Horizon 2020 research and innovation program grant no. 856697).

The 5G Solutions ICT 19 RIA project "Smart Mobility, Media and e-Health for Citizens and Citizens" involves advanced 5G validation trials across multiple vertical industries, deploying full and use-to-end trials to bring 5G to real users for thirteen representative use cases. The project will provide efficient and reliable close-to-commercial services in three different types of cities: Berlin, Turin and Athens.

THE MOST HIGHLY ANTICIPATED EVENT IN THE BUSINESS OF STORYTELLING

NAB Show is the only global event for content professionals. During five days of disruption-busting discovery, you'll connect with the strategic partners, tools and technology you need to create superior audio and visual experiences, elevate your storytelling and drive listeners and viewers in larger numbers for the greatest reach.

NEW IN 2020!
Show floor opens on Sunday

REGISTER BY MARCH 22, 2020, to receive a FREE Exhibits Pass and a \$100 discount on the NAB Show Conference Pass with code: MP20

5G-SOLUTIONS Deliverables submitted during this period

Title	Leader	Date
D2.2B-Specifications & design of CDSO plugins CDSO plugins v2.0	NOKIA	25 May 2020
D2.3A-Zero-touch automation mechanisms for 5G service lifecycle v1.0	LMI	29 Jan 2020
D3.1B - KPI Visualisation System Specifications and Design (v2.0)	APPART	28 Apr 2020
D3.2A-KPI visualisation system and interfaces implementation and deployment v1.0	APPART	28 May 2020
D8.3A-Standardisation activities v1.0	IRT	30 Jan 2020
D8.7A-Clustering plan for international cooperation v1.0	TNOR	25 Mar 2020
D9.3A-Information package for external SMEs to facilitate the design of new applications v1.0	A2T	29 Apr 2020

5G-SOLUTIONS Contact person

Andrea Di Giglio
TIM S.p.A
Via Guglielmo Reiss Romoli, 274 –
10148 Torino
Email:
andrea.digiglio@telecomitalia.it
Tel: +39 011 228 7533

Grant Agreement:
856691

Project Duration:
01.06.2019 – 31.05.2022

5G-SOLUTIONS in social media

Follow us to keep up to date with the project progress!



[@5g_solutions](https://twitter.com/5g_solutions)



[5gsolutions-project](https://www.linkedin.com/company/5gsolutions-project/)



<https://www.5gsolutionsproject.eu/>