

5GCity at EuCNC'18

The 27th edition of [EuCNC 2018](#) in Ljubljana, Slovenia, next 18 to 21 June, is part of a series of technical conferences in the field of telecommunications, sponsored by IEEE ComSoc and EURASIP; and financially supported by the European Commission. The event is focusing on communication networks and systems, services and applications. It brings together a vast community of researchers from all over the world to present their latest research results, being one of the main venues for showcasing demos, trials, and trials of research projects results, especially from successive European R&D programmes.

Completed its first year, [5GCity](#) project is playing an active part at this important event. The members of the consortium will take part at the activities planned, making important contribution and strengthen collaboration with other [EU Horizon2020 5G-PPP Phase 2 projects](#).

On 18 June a series of workshops will be organized, with relevant 5GCity partners' participation:

NextWorks + CoDi:

5GCity media and communication partners, **NextWorks** and **Comunicare Digitale** will take part at [Workshop 1 : Vertical Industries & Services for 5G \(VIS5G\)](#) . The workshop is led by projects that drive vertical industry adoption of 5G; through the promotion and research in applications of 5G communications. Experts on 5G will discuss the possible vertical applications of 5G; and how applications are improving with the development of 5G standards. This is also an opportunity to understand how the different verticals of 5G is shaping up and encourage collaboration across projects and sectors. Outputs will feed into relevant WGs within the 5G PPP and the 5G-IA, such as Automotive WG, Trials WG, Pre-standardization, and Spectrum.

5GCity partner **i2Cat** will **i2CAT + AdLink**

5GCity partner **i2Cat** will chair session 3 and hold presentations with **AdLink** at [Workshop 3: 2nd Multi-provider, multi-vendor, multi-player orchestration: from distributed cloud to edge and fog environments in 5G](#) . This workshop represents a link between 5G-PPP phase 1 projects and new 5G-PPP projects, like 5GCity; which are conducting research in the areas of SDN and NFV multi-domain orchestration and federation, fog, edge and distributed cloud computing. A working group that will put in common their results by strengthening the relationship between projects' participants, extending collaborations, and sharing common exploitation strategies. The workshop will address the Network Service Providers ecosystem, that it is limited in maximizing usage efficiency of their resources and limited in revenue generation capability from rigid service, that take long to provision. With 5G implementation these services (multi-vendor) will be programmed, from multiple operators, which can be flexibly allocated and sliced, stressing the network and cloud infrastructures, to enable resources being closer to the end users.

i2CAT will hold another presentation together with Horizon2020 projects on "5GCITY: A Distributed Cloud and Radio Platform" in section 2 Optical-wireless convergence and Transport Network Solutions during [Workshop 5: Optical and Wireless Network Convergence: An Enabler for 5G](#). To address the large variety of 5G services, RAN deployments need to be transformed into open, scalable and dynamic ecosystems able to flexibly and efficiently support greatly varying requirements. In the workshop the optical and wireless research communities will address together a big problem of direct impact to fixed and mobile operators; emphasis needs to be given on the integration and orchestration of different access and transport technologies.

i2CAT will also participate at Session 2: Technical presentations of the relevant 5G PPP projects, on [Workshop 6: 5th International Workshop on programmable networks: Demystifying software networks for Vertical Industries](#) with a presentation intitled "A distributed cloud and radio platform for

5G neutral hosts". This workshop aims to bring together top researchers in software networks under the umbrella of the EU H2020 5G-PPP projects, to share their ideas and results, creating an opportunity for synergy in particular with other 5G-PPP and H2020 5G projects.

InCITES + NEC

A very active 5GCity partner, **InCITES Consulting** will organize the [Workshop 4: 2nd Workshop on business models and techno-economic analysis for 5G networks](#), in collaboration with VirtuWind, 5GEX, SPEED-5G, 5G-MiEdge, and 5G-MoNArch projects. The reason for the workshop is to showcase the work of 5GCity and other 5GPPP 2 Phase projects and discuss business and techno-economic issues of 5G networking. The workshop also hopes to bring together 5G projects as well as other interested parties which have a common interest in the development and progression of the identified topics.

NEC and InCITES Consulting will also be part of the organization of [Workshop 8: Next generation network systems security](#). The purpose of this workshop organized under the theme track "NET – Network softwarisation", is to present the on-going work regarding next generation network systems security. Presenting the work start first with 5G Security and 5G Verticals security within 5G PPP; continuing the work done by other not only 5G projects, to share results and outcomes. To drive the Vision of '5G Security & beyond', invited speakers will open the discussion with stakeholders, to complement the findings from work done vs on-going next generation network systems security.

Wind Tre + RAI

The activities continues with 5GCity partners, **Wind Tre** and **RAI**, that will participate giving presentations at the [Special Session 5: 5G Architecture towards Verticals](#). Both will stress 5GCity outputs on the opportunity that 5G represents, as the first generation of mobile networks. It will be stress how 5G offers unlimited mobile broadband experience; and how 5G can provide a massive connectivity from smart devices to sensors and machines. In this special session, pitches from vertical industries, operators and vendors will be encourage to trigger a panel discussion.

5GCity Booth

From June 19 to 20 in the main Foyer 1 at [EUCnC2018 venue](#), 5GCity Consortium will run also its own Booth. The motivation for demonstrations at EuCNC 2018 is to showcase the technical developments at different fronts in the project, at the end of first year of execution. The proposed demonstrations reflect the objectives of 5GCity project, performing the following three demos:

- Neutral Hosting [**i2CAT, Ubiwhere**]
- Guest Optimization in 5GCity (**Unikraft**) [**NxW**]
- 5GCity far-Edge Orchestrator & VIM (**fog05**) [**ADLINK**]

Apart from the above demos, other communication actions are planned to promote the 5GCity outputs; such as, that each demo will have an accompanying poster; there will be a video hosted at 5GCity booth, showing 5GCity infrastructure deployments in Barcelona, Bristol and Lucca cities; as well as a general project rollup poster, and 5GCity flyers.

Great commitment and attention are put by most 5GCity partners to present and share with other EU H2020 5G-PPP projects their latest research results and showcasing demos among an international community of researchers, to give its contribution for successive European R&D programmes.