



WINGS ICT Solutions develops solutions (hardware and software) for verticals. Vertical areas covered are utilities (water, gas, energy), smart city applications (e.g., air quality, parking, assisted living, safety), food security/safety, logistics/transportation. The solutions rely on Artificial Intelligence (AI), big data platforms, IoT and advanced wireless connectivity (namely, NB-IoT and other). Based on these assets, WINGS has traction in various areas (e.g., Greece, Cyprus, UK, and others).

5G PPP projects helped WINGS to progress its offerings and to prepare for the future.

Through the phase 2 project *One5G* (<https://one5g.eu/>), WINGS enhanced its utility solutions. WINGS developed mechanisms for enabling a utility and a 5G network operator to interact for the purpose of negotiating on network slices. Through the WINGS mechanisms there can be management of a critical-utility-infrastructure through the cooperation of the 5G infrastructure, and, in particular, the following capabilities: (a) acquisition of detailed/initial information on the utility status, through the support of mMTC flows; (b) acquisition of additional insights (e.g., in the event of incidents), through extra slices that support high-quality video and unmanned-aerial vehicles; (c) realization of actions (e.g., ranging from automated to manual, involving the potential deployment of engineering teams) for the mitigation of the incident impact, at lower time scales and with higher certainty. These WINGS technologies were demonstrated in MWC 2019 and were parts of the One5G project booth that received the "best booth award" in EuCNC 2018. Discussions

Moreover, through the Phase 3 *5G-EVE* (<https://5g-ppp.eu/5g-eve/>) project, WINGS will enhance its capabilities way further. Firstly, WINGS will advance its offering by working on further use cases (elaborated in conjunction with vertical stakeholders of the project and beyond); for instance, means for most dynamic reallocation of demand to supply elements will be developed. Secondly, and most importantly, the resulting systems will be trialled on the 5G nodes of *5G-EVE*; this will enable assessments and will yield experience that will be valuable in the phase of the availability of commercial 5G networks.



Through the participation in 5G PPP projects, WINGS enhances also its headcount. Moreover, WINGS is enabled to contribute to the shaping of 5G technologies, in coordination with its partners, and to assist Europe in maintaining a leading role in the respective 5G developments.

For more details see: [www.wings-ict-solutions.eu](http://www.wings-ict-solutions.eu)

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