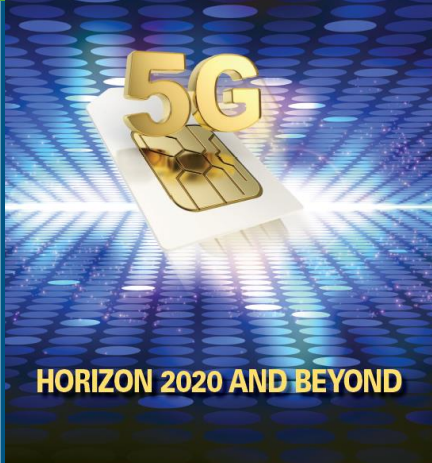


5G the nervous system of the digital society and digital economy

By David Soldani, VP Huawei European Research Centre

Public Lecture
IEEE NSW VTS & ComSoc Chapters



Date:

Thursday, 02 April
2015

Time:

4:00pm - 5:00pm
(3:30pm registration &
afternoon tea)

Location:

Lecture Theater, CSIRO
30 Pembroke Rd,
Marsfield, NSW2122
(Visitor parking available.
Register at the Reception)

Cost:

IEEE, EA, IET, ACS-TSA
members – Free,
Students – Free,
Non-members – \$10

RSVP:

Dr. Wei Ni at
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Abstract:

The speech introduces the main ICT challenges and opportunities in EU, 5G vision and main research and innovation initiatives ongoing globally. I will then describe our multitenant network and services vision and the most important 5G enabling technologies, leveraging Software Defined Networking (SDN), Network Functions Virtualization (NFV) and Mobile Edge Computing (MEC). Special attention will be paid on 5G as the nervous system of the Silver Economy, looking at a better age friendly environment (housing), which can help people live longer independently and thus reduce costs of long term care. The Silver Economy is defined as the economic opportunities arising from the public and consumer expenditures related to population ageing and specific needs of the people over 50. This is estimated to be a business at \$7 trillion per year, which makes it the 3rd largest economy in the world. By 2020 the private spending power of the elderly generation will reach \$15 trillion globally. As for public spending, in the EU, it is projected to grow by more than 4% of GDP until 2060. In this context, 5G will be an integral part of the overall solution to the ambient (housing) assisted living concept, where service robots, mobiles, holographic rendering, cars could be connected using 5G communication technologies. Conclusions are drawn on the main standardization activities and roadmap towards the IMT for 2020 and beyond.

Speaker Biography

David Soldani received a M.Sc. degree with maximum score and “cum laude approbatur” in Electronic Engineering from the University of Florence, Italy, in 1994; and a D.Sc. degree in technology with distinction from Aalto University, Finland, in 2006. In 2014, he was appointed Visiting Professor at the University of Surrey, UK. He is one of the top experts in multi-disciplinary, transformative frontier research. He has been active in the ICT field for more than 20 years, successfully working on 150+ R&D projects for 2-5G and contributing to 100+ quality deliverables: from strategic research and innovation to modeling, simulations, emulations and innovative proof of concepts with stakeholders. Dr. Soldani is currently Vice President (VP) of Huawei European Research Centre (ERC) and Head of Central Research Institute (CRI) in Europe. Areas of his responsibility and expertise include, but not limited to: Future Wireless, Network, IoT and Multimedia Technologies. Dr. Soldani represents Huawei in the Board of the 5G Infrastructure Association, in Brussels, and Steering Board (SB) of NetWorld2020 European Technology Platform (ETP), in Europe.

