

Proposed Agenda

8:30 – 9:00	Registration
9:00 – 9:25	Welcome and EC Introduction on Smart Networks and Services Partnership
9:25 – 9:50	EC Introduction on Key Digital Technologies Partnership
9:50 – 11:30 <i>Technical Session</i>	<p>European Strategy — Reviving Component and Device Value Chain for Future Networks</p> <p>Focus: During the past 10 years, European industry has gradually lost its leadership in the areas of components and devices for network.</p> <p>With ever-growing global competition as well as the increasing possibility of global supply chain disruption, it is strategically important for Europe to revive and rebuild a complete component and device value chain. This session will focus on reflecting these issues at a strategic level for contributing to both Smart Networks and Services Partnership and Key Digital Technologies Partnership.</p>
11:30 – 12:15	Lunch + Coffee Break
12:15 – 14:15 <i>Technical Session</i>	<p>Technology Deep Dive I — Energy Efficient Computing for Future Networks</p> <p>Focus: In this session, the focus will be then placed on discussing key enabling technology building blocks, the related software technologies and the required ecosystems for supporting energy efficient computing at the both infrastructure and device sides. Considering the fact that the required hardware and software technologies as well as their connections to legacy technologies differ largely at the infrastructure side and at the device side, this session will be divided into two parts:</p> <p>Part I: Advanced Processors for Edge Computing</p> <p>Part II: Advanced Processor Platforms for Devices</p>
14:15 – 14:30	Coffee Break
14:30 – 15:30 <i>Technical Session</i>	<p>Technology Deep Dive II — Hardware Security for Future Networks</p> <p>Focus: Security of future networks will be the foundation of its success. Associated with its increasing impact on economy and society, future network is expected to face more frequent and more sophisticated cyber-attack and security breach. This session will focus on identifying</p> <p>a) major security challenges on the hardware side of network, including both infrastructure and devices, as well as, b) the required R&I areas for secured network, with respect to hardware security approach and joint hardware-software security approach.</p> <p>Format: 2 presentations + open discussion with all participants</p> <p>Time schedule: 20 minutes including Q&A for each presentation + 20 minutes open discussion</p> <p>Speakers: 2</p>

<p>15:30 – 16:45</p> <p><i>Technical Session</i></p>	<p>Technology Deep Dive III — Radio Technologies and Novel Devices for Future Networks</p> <p><i>Focus: Capacity of future networks is expected to be perceived as infinite by its users. From radio access point of view, this requires further development of efficient, flexible and agile spectrum usage techniques/mechanisms as well as efficient exploitation of mmWave and THz frequencies, both of which must be supported by enabling radio technologies (including RF, baseband and I/O designs and integration) and potentially optic technology. In addition, the use of mmWave and THz frequencies will pave the way to integrate sensing and imaging into the service portfolios of future network. New devices that enable novel human-machine/machine-machine/AI-AI network will emerge, which will potentially impose currently unknown yet very stringent requirements to the network infrastructure. This session will identify major technology building blocks for enabling commercially viable and energy efficient radio implementations that support seemingly infinite capacity at the both infrastructure and device sides. Meanwhile, it will discuss and envision some emerging new devices and applications that future network/infrastructure/ /will support as well as perspective new challenges imposed on network design. The associated value chain and ecosystem will also be analysed./</i></p>
<p>16:45 – 17:00</p>	<p>Wrap up, way forward</p> <p><i>Speakers: EC representative(s) and Networld2020</i></p>