5G PPP

5G-MONARCH

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Invitation to 5G-MoNArch event in Turin

The 5G-MoNArch consortium cordially invites you to the project's dissemination event at Palazzo Madama in Turin, including presentations of the core research and innovation results accompanied by a live experience of the Touristic City testbed.

The event will start with a workshop providing the perspective of key stakeholders related to smart city and digital tourism services and the opportunities that 5G will bring in such contexts. The Touristic City testbed will then be open to event attendees for a live Virtual Reality experience of the Madama Reale chamber, combined with a detailed insight into the 5G-MoNArch implemented technical solutions and innovations.

This 5G-MoNArch dissemination event is organised with the essential collaboration of the Municipality of Turin and Fondazione Torino Musei.

When: **May 24th, 2019, 10:30 – 14:30**

Where: **Palazzo Madama, Piazza Castello, Turin, Italy**

Registration: **https://5g-monarch.eu/events-and-publications/**

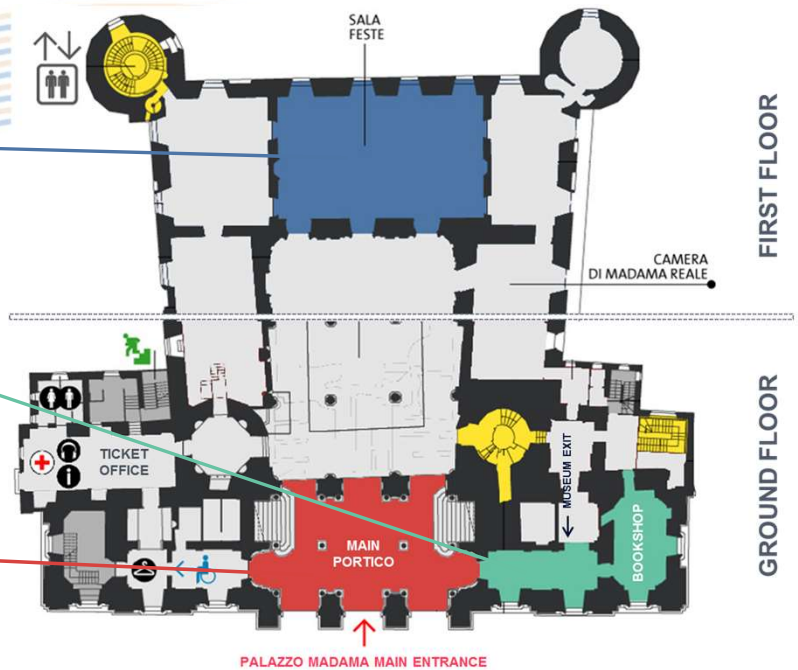|	
10:30	**Participants registration – Main portico**
11:00 – 11:10	**Welcome** (Fondazione Torino Musei)
11:10 – 11:30	**5G-MoNArch presentation** (Nokia) Project overview, goals and achievements
11:30 – 11:50	**5G enabling vertical markets** (TIM) A mobile operator's view on the new business opportunities beyond traditional mobile broadband applications
11:50 – 12:10	**We have stories. Bringing collections to life** (Fondazione Torino Musei) How museums can explore different ways to present themselves and their collections through the use of Extended Reality
12:10 – 12:30	**5G experimentations and Torino City Lab** (Municipality of Turin) How Turin explores and experiments with innovative products, technologies and services to test their functionality and utility for end users and assess impacts on quality of life
12:30 – 14:30	**Touristic City testbed showcase** Implementing 5G network slicing and resource elasticity for a live Virtual Reality experience of Madama Reale chamber - an exemplary implementation of new digital tourism services
14:30	**Closing**

Workshop (SALA FESTE)
- 5G-MoNArch overview and results
- 5G enabling vertical markets
- Smart cities
- Digital tourism

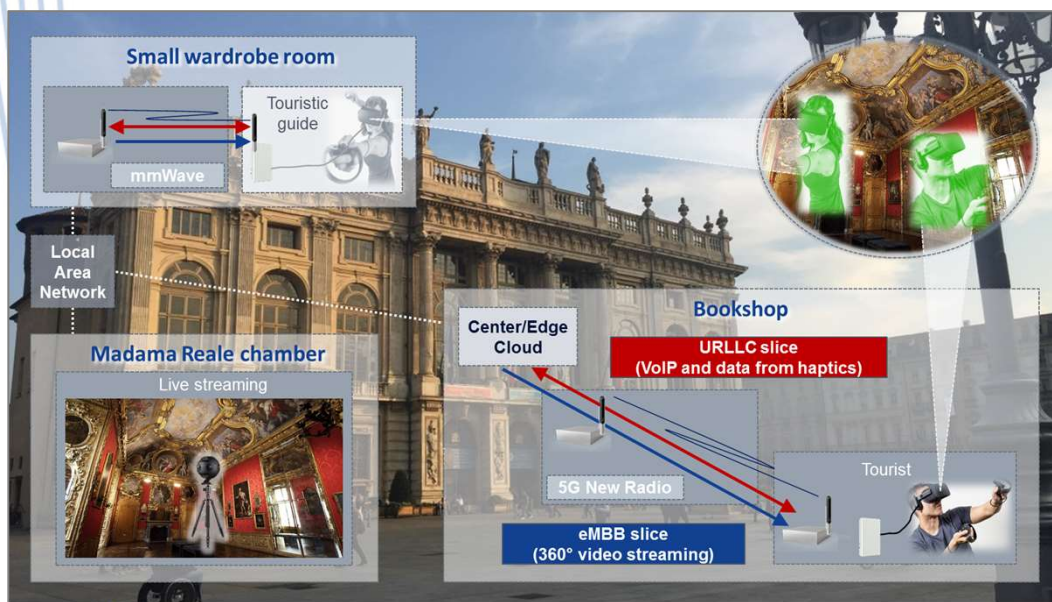**Touristic City testbed showcase (BOOKSHOP)**
- VR visit of Madama Reale chamber
- Interactive restoration tutorial
- Technical solutions on network slicing, orchestration and resource elasticity

Registration (MAIN PORTICO)
- Opening time at 10:30

5G-MoNArch focuses on developing a flexible, adaptable, and programmable architecture for 5G mobile networks. Inter-slice control and cross-domain management, experiment-driven modelling and optimisation, and a native cloud-enabled protocol stack are innovative enablers for the sliced network. The concepts and enablers are brought into practice through prototype implementations in two testbeds - the Smart Sea Port in Hamburg representing an industrial environment, and the Touristic City in Turin representing a media and entertainment use case - which instantiate network slices that include the tailored functional innovations of network resilience and security for Hamburg, and resource elasticity for Turin, respectively.

The Touristic City testbed provides a live Virtual Reality experience of one of the most iconic rooms of Palazzo Madama. Tourists virtually join a tour guide that accompanies them in a virtual visit of the Madama Reale chamber and involves them in a restoration tutorial.

The objective of the Touristic City testbed is to demonstrate the benefits of the 5G solutions developed by 5G-MoNArch such as (i) network slicing to satisfy the requirements of Virtual Reality (i.e. high throughputs), (ii) Multi-access Edge Computing, to meet the low latency requirements related to the interactions among the users, and (iii) resource elasticity, to provide an efficient management and orchestration of the resources.