

TSSG



A brief Overview

5G PPP Phase 2 Information day and Stakeholders event

Bologna, Italy

Nakul Wali, Software Research Engineer

17th March 2016



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

TSSG

Telecommunications Software & Systems Group

FOUNDED: In 1996, has 100+ researchers (112 people) in Waterford, Ireland.

EXPERTISE: Leading software R&D Centre with particular expertise in network, mobile & communications services.

SCIENCE: Leading SFI funded SRC Centre working with IBM, Cisco and Alcatel-Lucent.

INTERNATIONAL: One of Ireland's leaders in the EU collaborative R&D programs (FP7/Horizon 2020) and has worked with over 450 companies on these programs.

INDUSTRY: Completed over 110 direct industry projects in Ireland over the past 5 years and has spun out a number of leading international start-ups such as FeedHenry Ltd.

TECHNICAL AREAS OF EXPERTISE

- Cloud Architectures
- Software defined Networks
- Network Function Virtualisation
- Real time Communications
- Policy-based Management
- Message Oriented Architectures



TSSG

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TSSG UNITS

PAS (Programmable & Autonomous Systems)
Emerging Networks Laboratory
Data Mining & Social computing
Mobile Services
Creative Development Unit



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WHAT WE DO



IoT COMMUNICATIONS

- Intelligent Transportation Systems
- Vehicle to Vehicle Communications
- Smart Environment Sensing
- Context-Aware Platforms
- Privacy and trust in IoT



VERTICAL APPLICATIONS

- Energy Demand Side Management
- Smart Grid Management
- Electric Car Grid Optimisation
- E-Learning Platforms
- eHealth



NETWORK PROTOCOLS & SDN APPLICATIONS

- Scalable Network Protocols
- Software Defined Network Applications
- Network Function Virtualisation
- High capacity WIFI Service



SCALABLE CLOUD ARCHITECTURES

- Scalable Low Latency Cloud Applications
- Real-time Policy Processing Engines
- Message Orientated Architectures
- Micro-services Architectures

For Project Details: www.tssg.org/projects

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CONTACT PERSON



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