

# Quality Assurance in 5G – SME Engagement

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- SME from Ljubljana, Slovenia
- Established in 2014
- 2 focus areas
  - Quality assurance of mobile, fixed and cloud systems
  - Solutions for public safety intervention monitoring and critical infrastructure protection



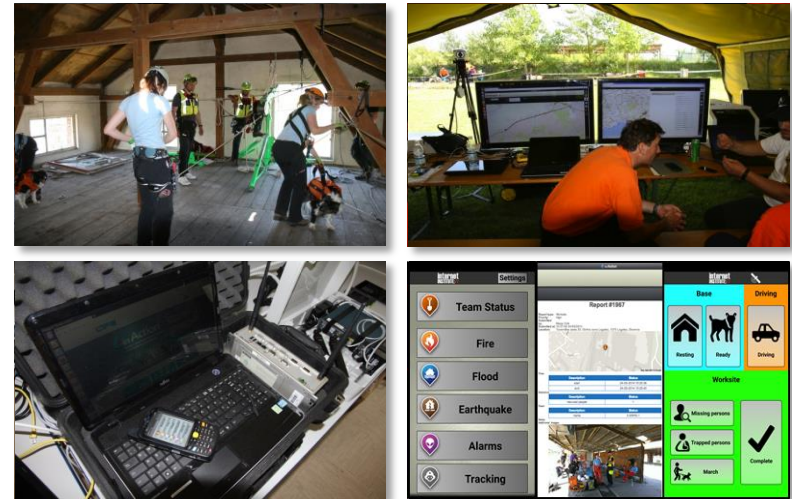
# qMON - quality Monitoring System

- Quality assurance of mobile, fixed and cloud systems
  - QoS/QoE measurement and monitoring solution for real-time telco-grade environments
  - performance assessment and validation of networks and services



# iMON - intervention Monitoring

- Intervention monitoring and critical infrastructure protection
  - Common operational picture in real time
  - IoT-supported intervention management tools
  - On-site sensing and tracking
  - Survivable, scalable and robust communications from the field



# Expertise and research activities

- Quality assurance of mobile, fixed and cloud systems
  - QoS/QoE measurement and monitoring solution for real-time telco-grade environments
  - Quality, performance measurements and validation of networks and services
- Intervention monitoring for 4G/5G PPDR environments
  - Real-time PPDR applications and tools
  - Survivable heterogeneous communication solution
- 5G PPP Phase 2 – MATILDA project
  - 5G Emergency Infrastructure and Services Orchestration with SLA enforcement
  - <http://www.matilda-5g.eu>



# 5G PPP Phase 3 interests

- 5G testing, benchmarking and 5G KPIs validation
- Quality monitoring and SLA assurance for 5G infrastructures and services
- Real-time 5G critical infrastructure assurance
  - Monitoring Public safety and PPDR, Automotive and intelligent transport, Health, Smart Grids network slices
  - Trending in-depth analysis based on active and passive measurements
  - Impact assessment and identification of critical paths
- Use of 5G for on-site (PPDR) critical communications & intervention monitoring

# 5G PPP Phase 3 interests – upcoming calls (2018)

- ICT-16-2018 Software technologies
  - Piloting software defined architectures and infrastructures (e.g., in distributed emergency response environments)
  - QoS/QoE metrics development, monitoring and KPI evaluation
- ICT-17-2018 5G End to End Facility
  - E2E testing and validation, KPI validation, QoS/QoE assessment and monitoring
  - Piloting in vertical domains (telco, PPDR, virtualised resilient infrastructures)
- ICT-18-2018 5G for cooperative, connected and automated mobility (CCAM)
  - E2E testing and validation, KPI validation
  - Domain-specific performance and QoS/QoE assessment and monitoring
  - Pilot partner for connectivity, networking, sensors and apps, security, QoS/QoE, privacy

# 5G PPP Phase 3 interests – upcoming calls (2019)

- ICT-14-2019 Co-designing Extreme Scale Demonstrators (EsD)
  - Testing and validation, QoS/QoE metrics development and monitoring
  - Monitoring and management of highly distributed resilient infrastructures
- ICT-19-2019 Advanced 5G validation trials across multiple vertical industries
  - Pilot testing and validation, KPI validation
  - Domain-specific performance and QoS/QoE assessment and monitoring
  - Large-scale 5G infrastructures monitoring business case
- ICT-20-2019 5G Long Term Evolution
  - SDN intelligent network selection mechanisms
  - e2e monitoring of SDN-enabled infrastructure resources
  - Performance and QoS/QoE assessment and monitoring, testing and validation
  - Architecture design and piloting of resilient SDN-enabled, virtualised OTT-like networks for PPDR

# THANK YOU

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