

PROJECT PARTNERS



Keysight Technologies (B, DK)



UNIVERSIDAD
DE MÁLAGA

University of Malaga (ES)



DEKRA (ES)



University College London (UK)



Quamotion (B)



Redzinc Services Limited (IRL)

MAIN CONTRIBUTIONS

- NGMN, "5G Trial and Testing Initiative Precommercial Network Trials Framework Definition v2.0"
- Signals Ahead, "A Performance Benchmark Study of 3GPP-based IoT Devices in a Lab Environment".
- TRIANGLE, "D2.6 Final Test Scenario and Test Specifications"
- TRIANGLE, "D2.7 The TRIANGLE Approach to Quality of Experience"
- TRIANGLE, "D3.5 Implementation Report on the testing framework final release"
- TRIANGLE, "D4.1 Report on the networking capabilities provided by the testbed"
- TRIANGLE, "D5.7 TRIANGLE Experiments and Extensions"
- TRIANGLE, "D6.4 TRIANGLE Technical Publications"

Download all the
documents from our
website



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5G-TRIANGLE

5G Applications and Devices Benchmarking

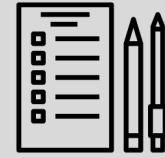


Learn more about the framework
adopted by NGMN for
Quality of Experience
in 5G Networks

This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 688712

3 YEARS OF ACHIEVEMENTS

5G-Ready Test Methodology



- High-level approach to understanding use cases and scenarios
- Tailored to fit any user skill-sets facilitating MNOs and App Developers
- Approved and included in NGMN TTI

Fully End-to-End Test Bed



- Release 3 launched in March 2018 includes the TRIANGLE certification mark scoring
- Fully integrated with valuable tool
- 4.5G NB-IoT heavily used by experimenters
- Supports DASH, DANE, NFV, LWIP, and more...

Industry-Approved Test Cases



- 5G Use Cases and Scenarios enhanced based on experimenters' feedback and needs
- Engaged industries have contributed with specialized test cases (e.g. EPC failures, reliability)
- Used by App developers, attractive for others

Strong Industry Alignment



- The concepts have been presented in industrial fora such as IWPC, NGMN, GCF
- NGMN and GCF have incorporated project contributions in their technical/standardization efforts

Engagement Beyond FIRE



- Alignment with other FIRE and 5G-PPP projects
- The Open Calls engaged 55 parties, of which 42 were SMEs
- 7 additional parties engaged with no funding
- High perceived value for the SME ecosystem