



5G PPP SMEs SUCCESS STORIES

1. Introduction - About Us

IS-Wireless is a software developer and IP provider specializing in advanced solutions for wireless systems. IS-Wireless develops 4G and 5G algorithms, protocols and tools. Our clients are primarily early technology adopters including ODMs, OEMs, chip vendors, and operators. The company is engaged in EU H2020 and FP7 projects on 5G.

2. Goals and Challenges in relation to 5G PPP

IS-Wireless aims to become the leading global software partner for LTE/5G base station ecosystem by delivering cutting edge radio protocols and signal processing algorithms.

3. The use of 5G technology

In the development of 5G Small Cell Protocols IS-Wireless uses solutions such as: virtualized RAN, new concepts for PHY layer (including non-orthogonal waveforms) and collaborative methods for interference management. IS-Wireless challenges the 1000x network densification and < 1ms latency reduction targets.

4. Benefits and accomplishments

- Development of eNB scheduler - the brain of 5G base station
- Development of LTE PHY baseband reference library
- Co-authoring "Towards 5G: Applications, Requirements and Candidate Technologies" - Wiley's book on 5G
- Participation in 5GNOW - one of the earliest EU R&D projects on 5G
- Partnership in 5G ESSENCE - 5G-PPP Phase2 Project selected for funding
- Received recognition in the City Bank Micro-entrepreneur of the Year 2013

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