Company overview

- IS-Wireless is a Polish software developer and IP provider specializing in advanced solutions for wireless systems.

- IS-Wireless develops 4G and 5G algorithms, protocols and tools that are targeted primarily at early technology adopters including ODMs, OEMs, chip vendors and operators.

COMPANY FACTS

Founder and CEO	Slawomir Pietrzyk
Ownership	Privately held
Location	Piaseczno near Warsaw, Poland, EU
Size	15 people - SME
Industry	Wireless communications
Products	Software: protocols and simulators, IP: algorithms and know-how
Services	Technical courses, wireless systems design
Web	www.is-wireless.com

Protocols

- LTE UE Stack
- LTE eNB Stack
- LTE eNB Scheduler

Tools

- LTE PHY Lab
- LTE MAC Lab
- MTC Lab
- University Suite
- WiMAX PHY Lab

Past and ongoing research - FP7 and H2020

5GNOW

5th Generation Non-Orthogonal Waveforms for Asynchronous Sigr

- Budget of 3 526 991 EUR
- Partners: IS-Wireless, HHI Fraunhofer, Alcatel-Lucent, CEA-Leti, NI, TUDresden

SOLDER

Spectrum Overlay through Aggregation of heterogeneous DispERsed Bands

Budget of 3 275 296 EUR
Partners: IS-Wireless, Thales, Sequans, ISI, Kings College London, Eurocom

eWINE

Elastic Wireless Networking Experimentation

- Budget of 2 628 797 EUR
- Partners: IS-Wireless, Thales, Sigfox Wireless, iMINDS, TUBerlin, TUDresden, Institute Jozef Stefan

Alcatel·Lucent
CEA Leti
THALES
KING'S College LONDON
EURECOM
NATIONAL INSTRUMENTS
SEQUANS COMMUNICATIONS
TECHNISCHE UNIVERSITÄT DRESDEN

Expertise and research focus

Expertise

- Radio resource management for LTE, LTE-A and 5G
- UE and eNB L1-L3 protocols
- Link-level and system-level simulations
- Embedded implementation (FPGA, DSP, GPP)
- Great dissemination capabilities

Research focus

- Small cell eNB
  - Readio resouce managment
  - C-RAN
  - Lean protocol stack design
  - New frame structores
  - Massive MIMO
- M2M UE
  - M2M modem design
  - New waveforms for M2M
  - Low power implementation

Interests - Future Internet

- ICT-07-2017: 5G PPP Research and Validation of critical technologies and systems
- ICT-08-2017: 5G PPP Convergent Technologies
- ICT-09-2017: Networking research beyond 5G
- ICT-10-2016: Software Technologies
- ICT-12-2016: Net Innovation Initiative
- ICT-13-2016: Future Internet Experimentation