Company research profile

5G-PPP Infoday 2016.03.17

Bologna, Italy

Sławomir Pietrzyk, CEO

Company overview

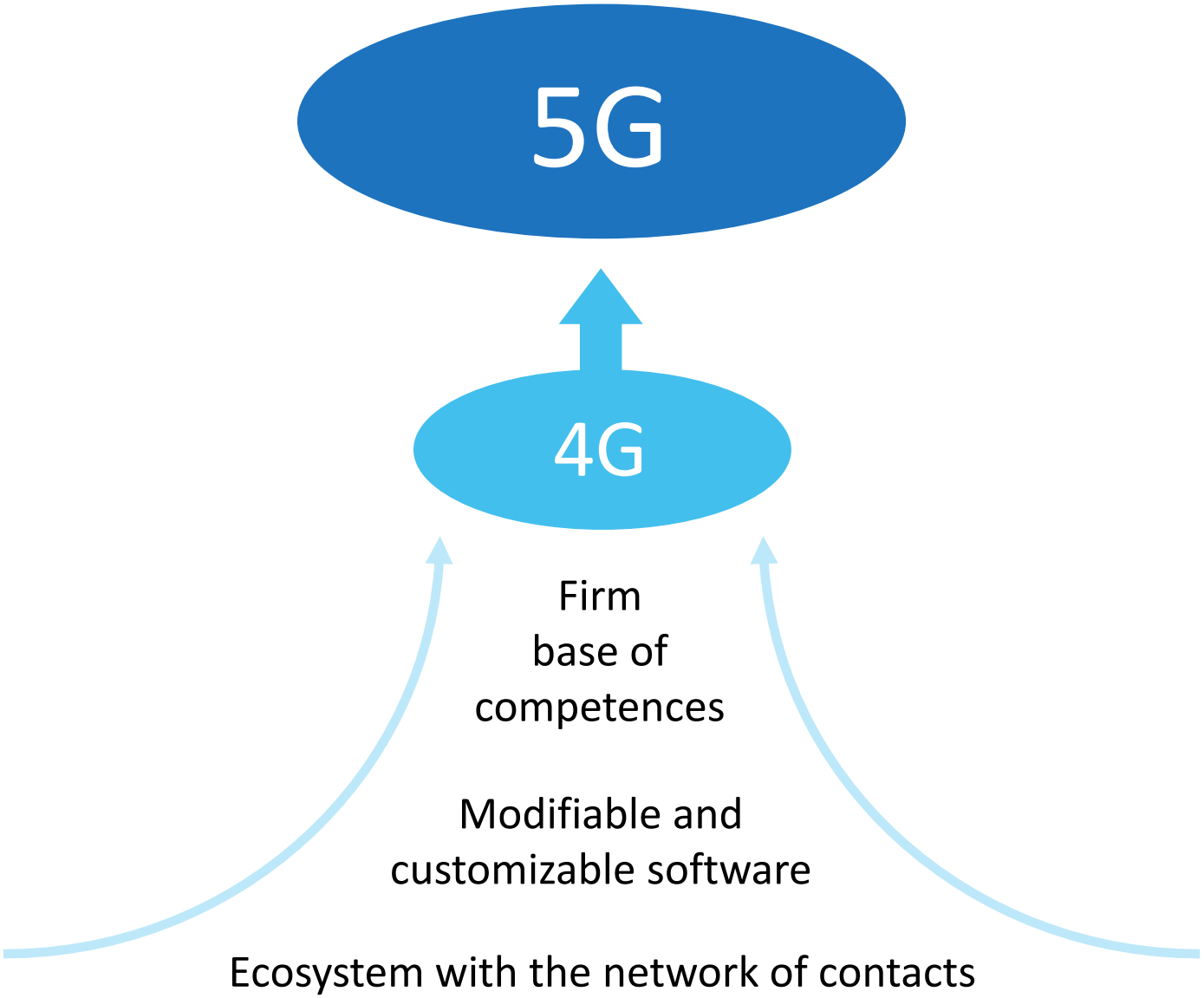
- IS-Wireless is a Polish software developer and IP provider specializing in advanced solutions for wireless systems.

- 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

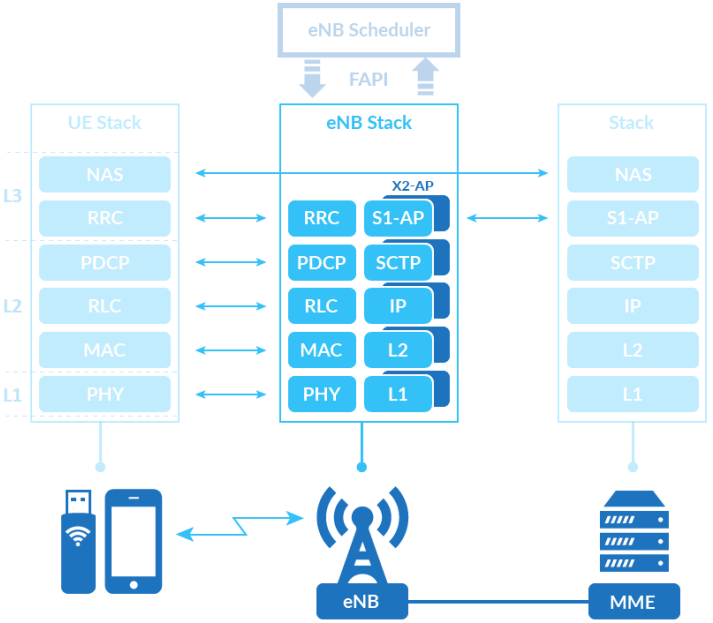
Founder and CEO	Slawomir Pietrzyk
Ownership	Privately held
Location	Piaseczno near Warsaw, Poland, EU
Size	15 people - SME
Industry	Wireless communications
Products	Software: protocols and simulators, IP: algorithms and know-how
Services	Technical courses, wireless systems design
Web	www.is-wireless.com

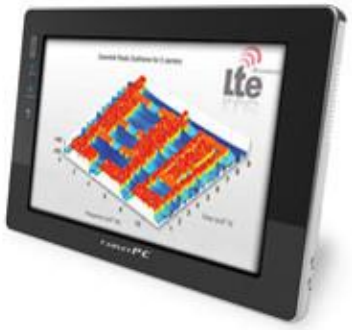
4G and 5G relation



Products: protocols and tools

PROTOCOLS

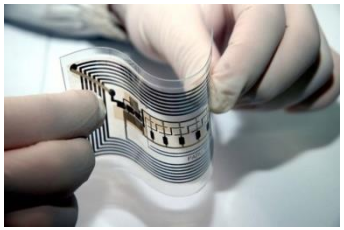




TOOLS

What final product we contribute to

Tablets, smartphones

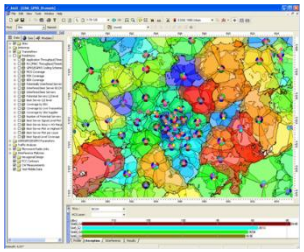


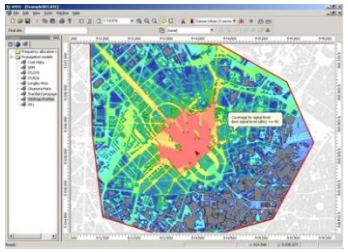
Dongles, tags

Small cell base stations

Large cell base stations

Wireless measurement tools





Radio network planning tools

Some of our happy clients

IS-Wireless provides protocols, training and tools primarily targeted at early technology adopters including ODMs, OEMs, chip vendors, integrators and operators. They may belong to any of the following vertical markets: telecoms, public safety, aerospace, automotive and education.

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
cealeti
THALES
KING'S College LONDON
EURECOM
NATIONAL INSTRUMENTS
SEQUANS COMMUNICATIONS
TECHNISCHE UNIVERSITÄT DRESDEN

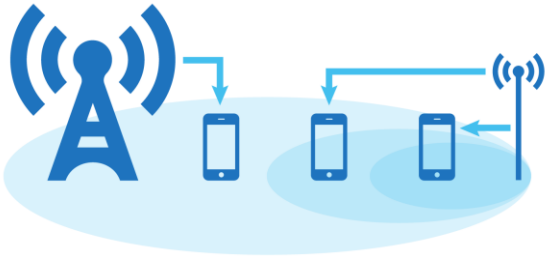
Expertise and research focus

Expertise

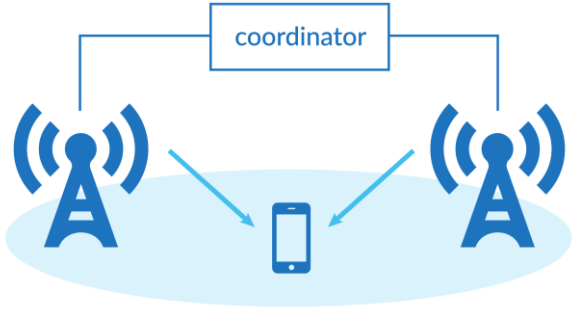
- Radio resource management for LTE, LTE-A and 5G
- UE and eNB L1-L3 protocols
- Link-level and system-level simulations
- Embedded implementation (FPGA, DSP, GPP)
- Great dissemination capabilities

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



HetNets and small cells



Interference coordination

M2M

CONTACT DETAILS

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