

## ITTI – Facts and Experience



#### Basic facts

- SME (80 persons) focusing on IT and telecommunications technologies
- "Cristal Brussels Prize 2006, 2010 and 2013" for the most active and successful Polish SME participating in FP6 and FP7
- professional certificates, e.g. PRINCE2, MSP, ITIL, ISO 9001, ISO 27001, TOGAF, Certificate in Software Testing (SJSI/ISTQB)



#### Experience in international R&D projects:

- EC (5FP, 6FP, 7FP, H2020) over 30 projects
- EDA ca. 10 projects, ESA 8 projects



#### **Examples of projects in the area of ICT:**

- FP7 FI-STAR Future Internet Social and Technological Alignment Research
- FP7 DaVinci Design And Versatile Implementation of Non-binary wireless Communications based on Innovative LDPC codes
- FP7 N4C Communications for Challenged Areas: Architecture, Test beds and Innovative Alliances
- FP7 INTERSECTION Inter-Operating Networks
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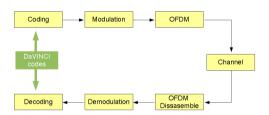




# ITTI – Areas of Expertise and Experience Related to 5G PPP Phase 2 TAs

- Wireless System Design and Simulation PHY & Data Link Layer (Channel coding, Modulation, Equalization and channel estimation, Multiplexing, HARQ, MAC)
- Radio resource management in access networks (WiMAX, UMTS, packet networks)
- Link / System Level testing
- Heterogeneous networks (E2E QoS, QoE/MoS, session management 3GPP)
- Wireless systems modelling (queueing networks)
- Security (Cyber security, IDS/ADS, Critical infrastructure, Policies/BCP)
- ■PPDR (e.g. TETRA) & Satellite networks
- Business models/cases









### ITTI – interests in 5G PPP Phase 2 TAs

- TA1: 5G Wireless System Design → Spectrum sharing, business models
- TA2: Air Interface and Multi-Antenna, Multi Service Air Interface below xx GHz
  Supporting security mechanisms on the air interface
- TA5: Novel Radio System Architecture → Flexible service creation
- TA6: Seamless Integration of Satellites Networks and Air Platforms into 5G Scenarios and business cases, assessing the role of satellites ...
- TA7: 5G for Future MTC Solutions Vertical requirements, new MTC UE capabilities, integration with legacy MTC radios and networks
- TA13: Security, Privacy, Resilience, and High Availability Designing 5G services and solutions, end-to-end security, protocols and critical requirements

#### **Contact persons:**

Piotr Tyczka, e: <u>piotr.tyczka@itti.com.pl</u>, ph. +48 61 622 69 44 Krzysztof Samp, e: <u>krzysztof.samp@itti.com.pl</u>, ph. +48 600 073 448