

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 INTERSECTION INfrastructure for heTErogeneous, Resilient, SEcure, Complex, Tightly Inter-Operating Networks
- QBIX (Fed4FIRE) Quality booster for QoE and context-aware adaptive service





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

- · Business models/cases
- Own eHealth solution (medstar.co)
- Service Level management (e.g. ITIL, COBIT, other)
- Integration of QoS for SOA based systems (semantic QoS, middleware)
- Adaptive video delivery + multipath (eHealth, CCTV)
- Interoperability (TETRA, SAT, secgateways)
- Testing

System

evel

- Test campaings design + execution (end-devices, mobile networks, video services, video for eHealth)
- Evalution of QoE for various apps (unintrusive with cameras, network vs application gap)
- Emulation / simulation (ns3)
- DTN testbed (IBR-DTN, DTN-RG)

- MAC: admission control, congestion control, scheduling (4G)
- Policy based management (QoS, security)
- Learning networks and protocols (e.g. routing, admission, policy based decisions)

Security

RRM

- Cyber security, critical infrastructure
- Policies / business continuity (BCP)
- Vulnerability assessment
- Intrusion / Anomaly detection
- Bio-inspired algorithms

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ITTI – interests in 5G PPP Phase 2 TAs

Target Activity (TA)	Offered contribution
TA2 : Air Interface and Multi-Antenna, Multi Service / TA13 Security	Security mechanisms on the air interface, e2e security/ protocols, designing 5G services/solutions
TA5 : Novel radio system arch	Flexible service creation, context awareness, policy based adaptation
TA7 : 5G for future MTC	Vertical requirements (i.e. <u>eHealth</u>), new MTC UE capabilities, integration with <i>legacy MTC radios</i> and networks (i.e. TETRA, WIMAX), 5G – Vertical interface
TA8: Cognitive network management	SLA/SLM definition, QoE modeling for <u>eHealth</u> , network awareness, self-X optimization with policy/cross-layer

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- business models (close cooperation with operators), scenarios
- cross-layer architecture / optimization
- crowdsourcing governance aspects, suitable for 5G PPP?



ITTI – Contact persons

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