

SALUS 1st Conference

End-users needs towards future PPDR Systems

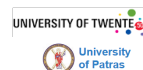
Paris, 26 November 2014



Hugo Marques
hugo.marques@av.it.pt
Instituto de Telecomunicações



Security And Interoperability in Next Generation
PPDR Communication InfrastructureS

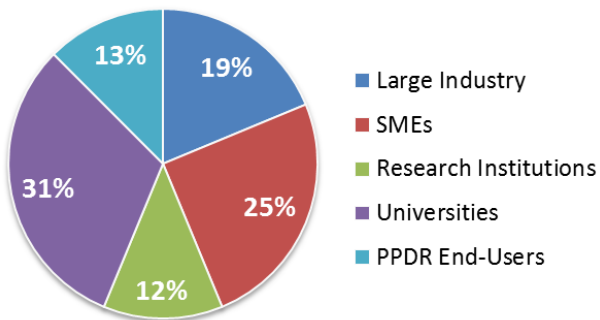


- A kind word to **Cisco** for kindly accepted to host our 1st Conference
- A kind word for **PSCE** for taking the lead in the organization of this event
- A kind word for the **speakers** who accepted to participate
- Thanks to the **audience** for attending and showing interest on this topic

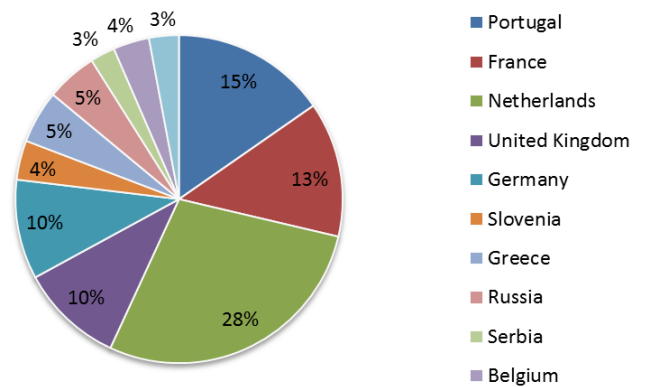
- 12.55 – 13.15 – **Presentation of PSCE on user needs**, [Manfred BLAHA](#), PSCE
- 13.15 – 13.35 – Presentation from [Philippe DEVOS](#), Airbus, on the **activities of the WG System Architecture from the Critical Communications Broadband Group (TCCA)**
- 13.35 – 13.55 – **Building the Roadmap for future PPDR communication systems evolution**, [Dimitris KANAKIDIS](#), Project PPDR-TC
- 13.55 – 14.25 – **Role of LTE in the future PPDR systems**, [Jérôme BROUET](#), Alcatel-Lucent
- 14.25 – 14.55 – **The future of TETRAPOL/TETRAPOL enhanced services**, [Philippe DEVOS](#), Airbus
- 14.55 – 15.15 – Coffee Break
- 15.15 – 15.45 – **The future of TETRA/TETRA enhanced services**, [Jeppe JEPSEN](#), Motorola Solutions
- 15.45 – 16.15 – **Synergies between PPDR/civil PMR, military and commercial domains**, [Andrea LORELLI](#), ETSI
- 16.15 – 16.45 – **Results of the Commission Study on the use of commercial mobile networks and equipment for "missioncritical" high-speed broadband communications in the sectors of PPDR, Transport and Utilities**, [Ales BRABINEK](#), DG Connect, European Commission
- 16.45 – 17.00 – Conclusions and closing of the Workshop

- SALUS is an European security research (collaborative) project
- Three year project
- Total budget of ~4,8M€
- Requested EU contribution of ~3.5M€
- 16 partners
- 10 Countries

Funded Budget split per profile



Funded budget split per country







Scenarios and Use Cases

- **City Security**
 - deals with day-to-day safety and security of citizens

- **Temporary Protection**
 - deals with safety and security of citizens visiting large planned events

- **Disaster Recovery**
 - focuses on PPDR agencies responsible for protecting people and property during large-scale natural or man-made disasters



PROJECT GOALS

#1

To gather end-user requirements

[most wanted capabilities, usage statistics]

#2

To validate LTE as the next generation PPDR network

[PMR services on top of LTE , enhanced services for mission-critical operations, seamless handovers & mission-critical security compliance]

#3

**To further extend current available
TETRA/TETRAPOL services**

[integration with sensors, location, new codecs (possibly)]

#4

**To ‘proof-of-concept’ the interoperability
between TETRA/TETRAPOL and LTE**

[voice, data and support for PMR services]

#5

To provide guidelines towards the medium/long term evolution of PPDR networks

[evolution roadmaps , services, security, interoperability,
spectrum]

#6a

Set out economic implications and possible migration paths

[complete replacement | evolution through upgrades | overlay | partial or full use of commercial operators networks | costs]

#6b

Collect data related to police forces and first responders

[# organizations per country | # people involved | wireless communication needs | # of events]

#7

To investigate procedural needs and workflows of headquarters and operators involved in PPDR based operations

[Enterprise Architecture integrated with System Architecture]

#8

To develop/integrate new services/applications that would improve situation awareness for the PPDR command & Control Center

[wireless body area networks, location privacy, multi-hop wireless networks, drone surveillance, physical layer security]



Thanks for listening