



P&TLuxembourg

EPT & SnT: A Partnership for Communication

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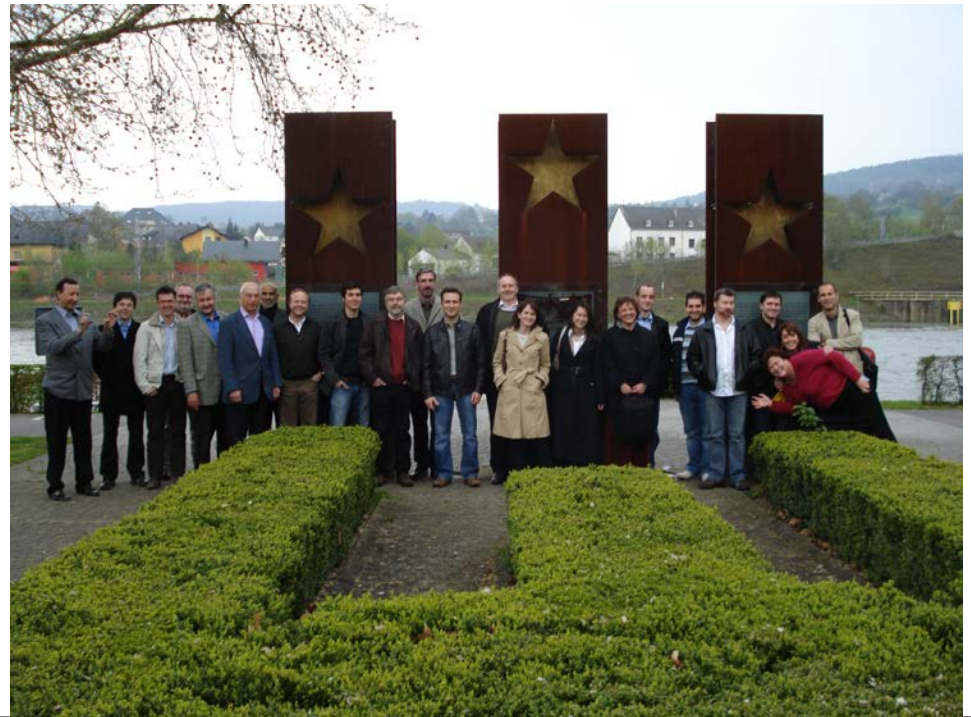
EPT and SnT – A History of Collaboration

➤ U-2010

Ubiquitous IP-Centric Government & Enterprise Next Generation Networks Vision 2010

– EPT was the communications partner in this Uni-Luxembourg led project

- Integrated EU Project
- Started in May 2006
- 3 years duration
- 16 international partners



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EPT and SnT – Partnership Contract

- 6th of Nov, 2009 EPT entered into a formal partnership with the SnT



Up to 3 joint projects proposed:

- Vehicular Systems
- Surveillance
- Communications

Other areas of interest:

- Machine to Machine studies
- Logistics
- Durable Development

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Partnership Allows Access to EPT's Expertise

- Luxembourg's Leading Communications Service Provider
 - Fixed and Mobile Networks
 - Internet Provisioning
 - Voice over IP
 - High speed LuxDSL
 - ATM and Mirroring
 - IPTV (Tele vun der Post)
 - Managed Services

- Leading Edge Communication Technologies
 - First European commercial IPv6 provisioning operator
 - Cloud Computing
 - Teralink and Connectivity
 - Data Hosting and Storage
 - Fibre Optic Network

Partnership Allows Access to EPT's Experience

- Vast Communications Experience
 - Well over one hundred years in the communication business
 - A large body of experienced staff
 - Including sub-companies of the EPT group
 - Experienced in research at a European Level

- Mentoring
 - End-to-End Web Service Security in Service Oriented Architecture
Shaonan Wang
 - T. Engel Mohamed Ourdane EPT
 - Oct 2007 - April 2012
 - **Best Paper Award**
 - *Management of Networks and Services*, Shaonan Wang, Radu State, Mohamed Ourdane, Thomas Engel, 4th International Conference on Autonomous Infrastructure (AIMS 2010)

The collaboration has been successful

- Luxembourg ICT Awards, October 10th, 2010 awarded the prize for *ICT Alliance of the Year*



- LATEST NEWS! In 2012 EPT & SnT have begun work together on their first ESA sponsored Feasibility Study

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Focus on an ongoing project

- Traffic Information System
 - “Collaborative” traffic sensing
 - Clients: Mobile devices (e.g. Smartphones) are used to retrieve motion patterns
 - Server: Data aggregation and representation
- Database Traffic in Luxembourg
 - Central repository to collect & store traffic information
 - Data retrieval via Web Services
 - Purpose; reliable information, data analysis and research

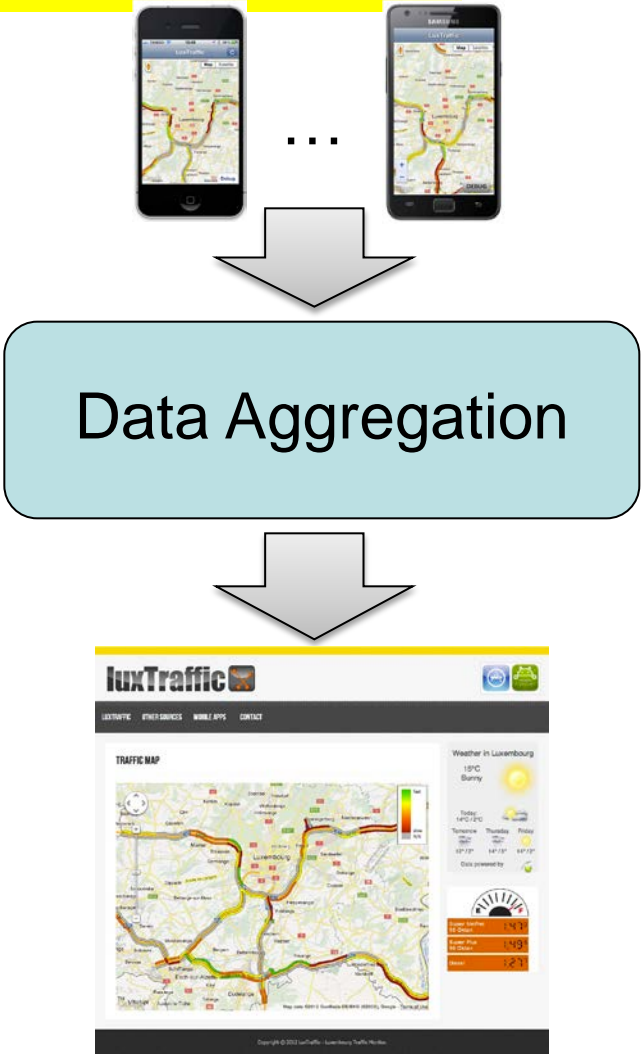


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How LuxTraffic Works

- Mobile Apps freely available
- Mobile Clients send **anonymous** traffic data to the central server via mobile networks (e.g. HSDPA, EDGE, GPRS)
- Based on several parameters (e.g. Time of the Day, Number of vehicles on the same road segment) → Aggregation function calculates a **traffic index** that represents traffic fluidity
- Traffic fluidity visually represented as an overlay on top of a Map (e.g. Gmaps, OSM)
- Traffic info available on the mobile devices and on the LuxTraffic website
- **Planned start of the service: 16/04/2012**



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LuxTraffic as a Central Repository for Traffic Information



➤ Today Traffic Information Services

- are manifold
- Are not always reliable

➤ LuxTraffic aims to

- Centralise all traffic info. Services
 - **More User Convenience**
- Collect/Archive relevant traffic metrics centrally
 - **For research purposes**



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Thank you for your attention

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