



EUROPEAN CITIES AND REGIONS NETWORKING
FOR INNOVATIVE TRANSPORT SOLUTIONS



P-REACT Project

and other projects related to security for transport and mobility

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SRM Bologna - I

www.polisnetwork.eu/2014conference

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P-REACT

- ❖ 7 partners
- ❖ 6 countries
- ❖ 24 months
- ❖ Started in April'14
- ❖ 6 work packages
- ❖ 20 deliverables
- ❖ 10 milestones
- ❖ 1,893,606 € budget
- ❖ 1,489,396 € EU funding

kinesense
Forensic Video Analysis

FN future
Intelligence
SECURITY POLICE AND JUSTICE

vicomtech
visual interaction & communication technologies



CERTH
CENTRE FOR RESEARCH & TECHNOLOGY HELIX



REPUBLIC OF TURKEY
MINISTRY OF EDUCATION AND RELIGIOUS AFFAIRS
CENTRE FOR RESEARCH & TECHNOLOGY HELIX



The project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement n° 607881.





P-REACT

What is P-REACT ?

Petty criminality diminution through search and analysis in multi-source video capturing and archiving platform.

❖ The problem: **Petty Crimes** (also known as Volume Crime)
Incidents such as theft, criminal damage, and anti-social behaviour.
They take place on a daily basis.

They affect **citizens, local communities, business owners and infrastructure owners**.

They **are on the rise in Europe due to the economic crisis** and in turn incidents adversely impact the local socioeconomic environment.

❖ Lack of current surveillance solutions

Higher level systems are **very expensive**.

They are often **positioned incorrectly and generate poor image quality** unsuitable for evidential purposes.

Disparate systems coupled with non-existent communication channels → **video exploitation by law enforcement agencies is often impossible**.





P-REACT

P-REACT Objectives

Effective communication and coordination **between police, retailers, private security and those operating transport and other infrastructure owners** is key.



- ❖ The P-REACT project is **designing and developing a low cost and innovative video-surveillance system against Petty Crimes.**
- ❖ The system will ensure **communication between key users** with a focus on increasing the ability of on the ground police and security personnel to respond
- ❖ The P-REACT solution will encompass **intelligent video and audio sensors to detect Petty Crime incidents, a cloud based monitoring, alert detection and storage platform.**





P-REACT

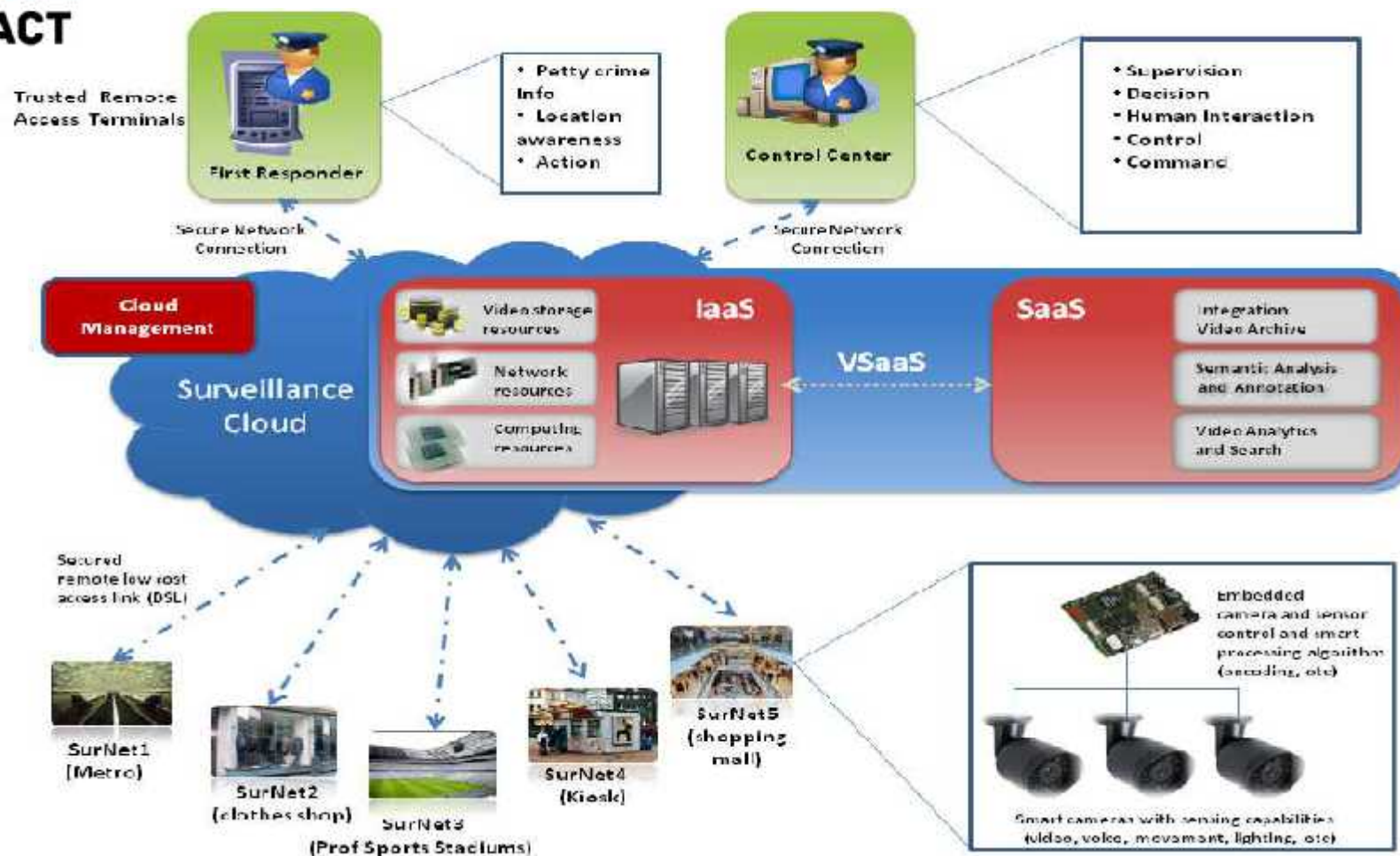
P-REACT Elements

- ❖ **Low-cost intelligent sensors** (image and audio) will be installed in small **business' premises and Transport infrastructure locations**.
- ❖ These intelligent sensors will be connected to the cloud-based **Video Content Management System** (VCMS), where reported incidents will be constantly monitored and responded to.
- ❖ Security Personnel and/ or Police will be alerted by the system, with the relevant video and intelligence information **ensuring the appropriate response**.
- ❖ **Technology trends** in computer vision, motion detection, video retrieval, semantic video analysis and cloud technology will be exploited.
- ❖ The project will ensure that legal, ethical and end user needs are properly balanced and addressed ensuring a '**Privacy-by-design**' solution approach.



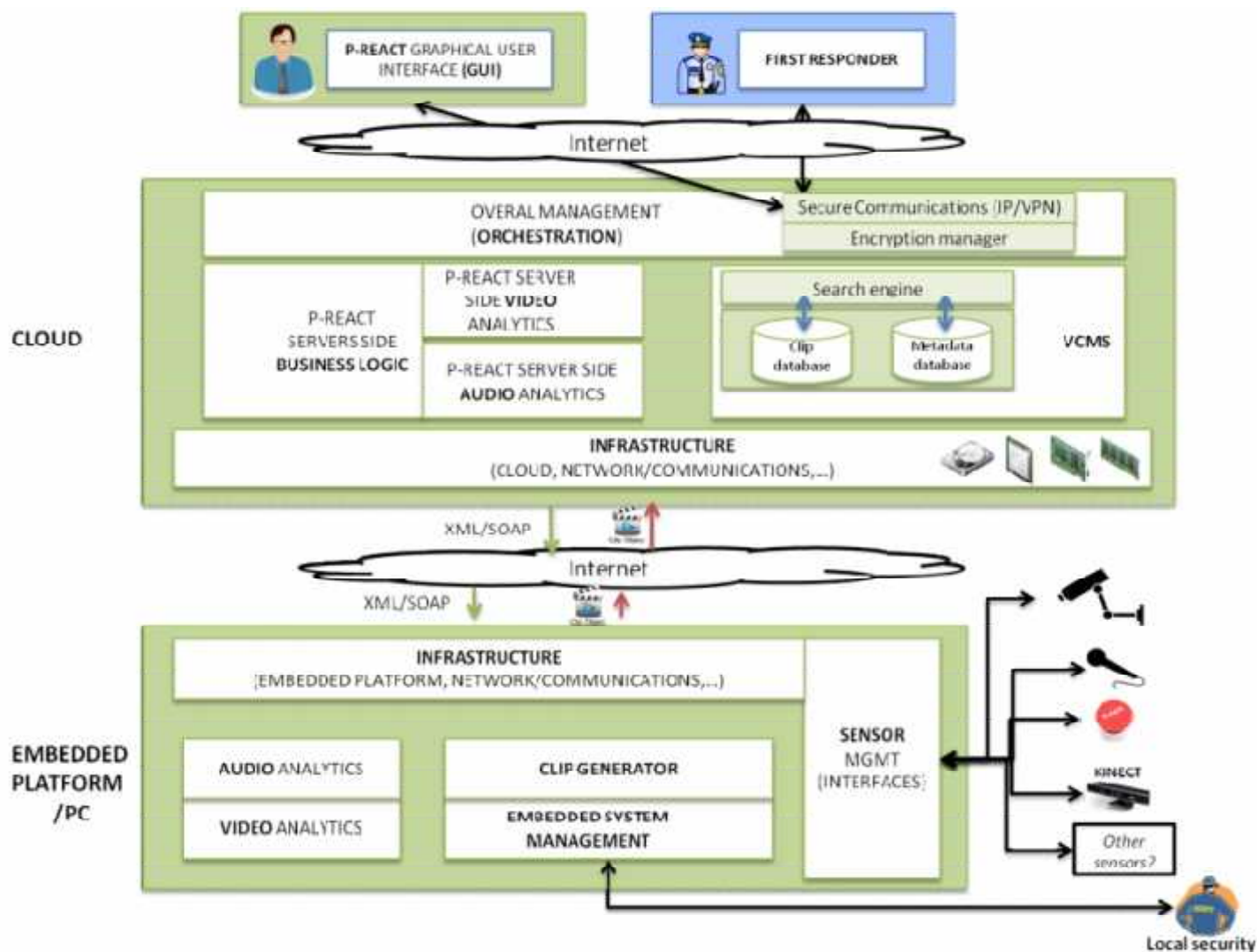


P-REACT





System Architecture





Expected Results and Benefits

- ❖ The development of **Intelligent Sensors** (image & audio) for detecting **Petty Crimes**.
- ❖ The development of a **cloud based Video Content Management Solution** (VCMS).
- ❖ A solution which takes into account a '**Privacy-by-design**' approach.
- ❖ Exploitation of the solution during **trials based on user defined scenarios**.



- ❖ **Reduction in petty crime incidents, increased safety and security in urban and transport area, reduction of fear of petty crime among citizens.**
- ❖ The provision of offender information and evidence for **conviction purposes**, and improved **crime reporting and analysis**.
- ❖ Improved **response by Law enforcement agencies**, and better resource allocation.



P-REACT

End-Users Advisory Board

P-REACT has built a **End-Users** Advisory Board with Enforcement Agencies with

potential end-users and Law Enforcement topics.



CITA
(Cyprus)



PYRSOS SECURITY S.p.A.
(Greece)

*new
interested
end-users
are
welcome!!*



SCIENCE DIVISION
(Greece)



TPER SPA
(Italy)



UDALTZAINGOA/GUARDIA MUNICIPAL
(Spain)

TP

TRA
(Greece)



SECURITY S.A.
(Greece)



CYPRUS POLICE
(Cyprus)

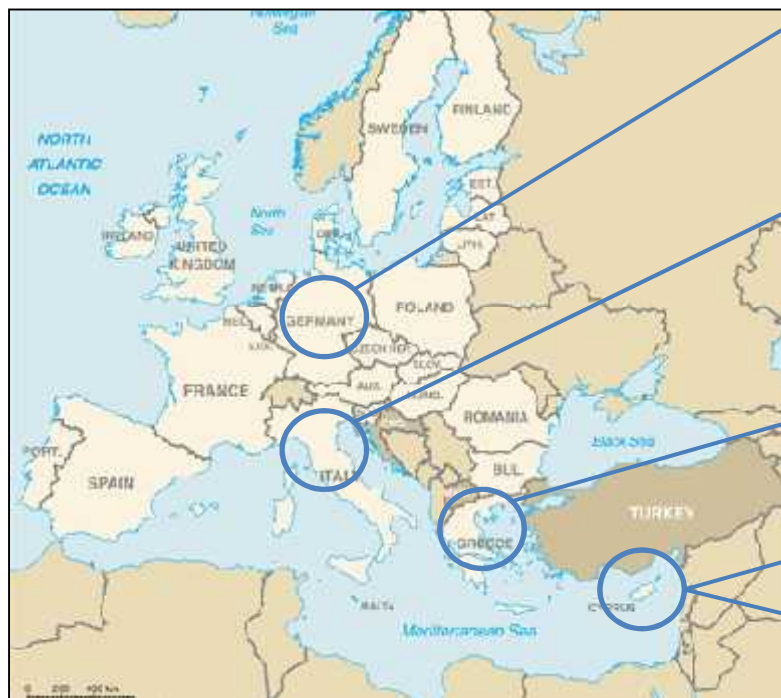
Feel free to contact contact@p-react.eu for further information. More info at the website:
<http://p-react.eu/> , and in LinkedIn: www.linkedin.com/groups?gid=8175906





The Project in Numbers

- ❖ 5 partners
- ❖ 4 countries
- ❖ 24 months
- ❖ Started in July 2014
- ❖ 6 work packages
- ❖ 27 deliverables
- ❖ 346.229,50 € budget
- ❖ 311.606,56 € EU funding
- ❖ Founded by DG HOME*



*

Prevention, Preparedness and Consequence Management of Terrorism and other Security – related risks for the Period 2007-2013 (CIPS) – Grant Agreement HOME/2013/CIPS/AG/4000005091





EUSTO Project Identity

Associate Partners – Steering Committee

EUSTO Project partners

Partner name	Info
KEMEA	National Contact Point for Critical Infrastructure Protection
SRM	Public Transport organization
FHG	Research institute operating in fields of transportation and infrastructure systems
EUC	Academic research institute in Risk Management
ADITESS	SME with Critical Infrastructure Protection experience

Partner name	Main Role
UITP	International Association of Public Transport
EOS	European Organization for Security
Attikes Diadromes	Motorway Operator
Swedish Transport Administration	National Contact Point
Spanish National Center for Critical Infrastructures Protection	National Contact Point
POLIS	European Organisation for Innovative Transport solutions
TPER	Public Transport Organisation
Bologna Airport	Critical Infrastructure





The challenge and the objectives

Over the years **surface transport infrastructures** have proven to be an **attractive target for criminal acts and terrorist attacks**.

The protection of such infrastructure needs the promotion of **sustainable cooperation** between the actors involved, in order to provide means of identification of emerging threats at EU level.



- ❖ Coordinate National and EU wide programmes and policies in pursue of the objectives of **Directive 114/2208 (now under revision)**.
- ❖ Propose a common “**harmonized**” **language** for National/EU authorities and Surface Transport Infrastructure Operators.
- ❖ Develop Surface Transport **Critical Infrastructure taxonomy/classification**.
- ❖ Promote public-private dialogue for Surface Transport Critical Infrastructure Protection, to reflect the users and operators needs, and define **common priorities**.
- ❖ Build reference Surface Transport Operator **Security Plan**, that has EU dimension and will be based on best practices and could serve as a basis for Surface Transportation Operators.
- ❖ Provide support for on-going activities for Surface Transportation Protection creating synergies among actors (e.g. **thematic network**).
- ❖ Understand **the dependencies and connections** to identify inter-linkages between different Surface Transport Infrastructures (network of networks).



EUSTO Project

European Surface Transport Operators Forum



EUSTO Forums

No	Title	Participants	Month
1 st	Ongoing activities for the implementation of Directive 114/2008 in Surface Transport Protection	Critical Infrastructure National Contact Points	9 th -10 th December 2014 (Athens, GR)
2 nd	Best practices for Surface Transport Protection	Surface Transport Operators	May 2015 (Bologna, IT)
3 rd	Operational requirements for Surface Transportation Protection	Surface Transport stakeholders	December 2015 (Nicosia, CY)
4 th	Final Event & International Forum on Surface Transportation Protection	Related stakeholders and community	June 2016 (DE / BE)





Thank you,



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<http://p-react.eu/>

