



Towards the Internet of Safe and Intelligent Postal+ Things

Massimo Ancona, Viviana Mascardi,
Nicoletta Noceti, Francesca Odone
DIBRIS, University of Genova, Genova, Italy

Waqas Ahsen, Antonino Scribellito
PostEurop, Brussels, Belgium

The context



“SAFEPOST: reuse and development of Security Knowledge assets for International Postal supply chains”

- FP7 European project
- April 2012 to July 2016
- 20 partners
- total cost of nearly 15 million euros

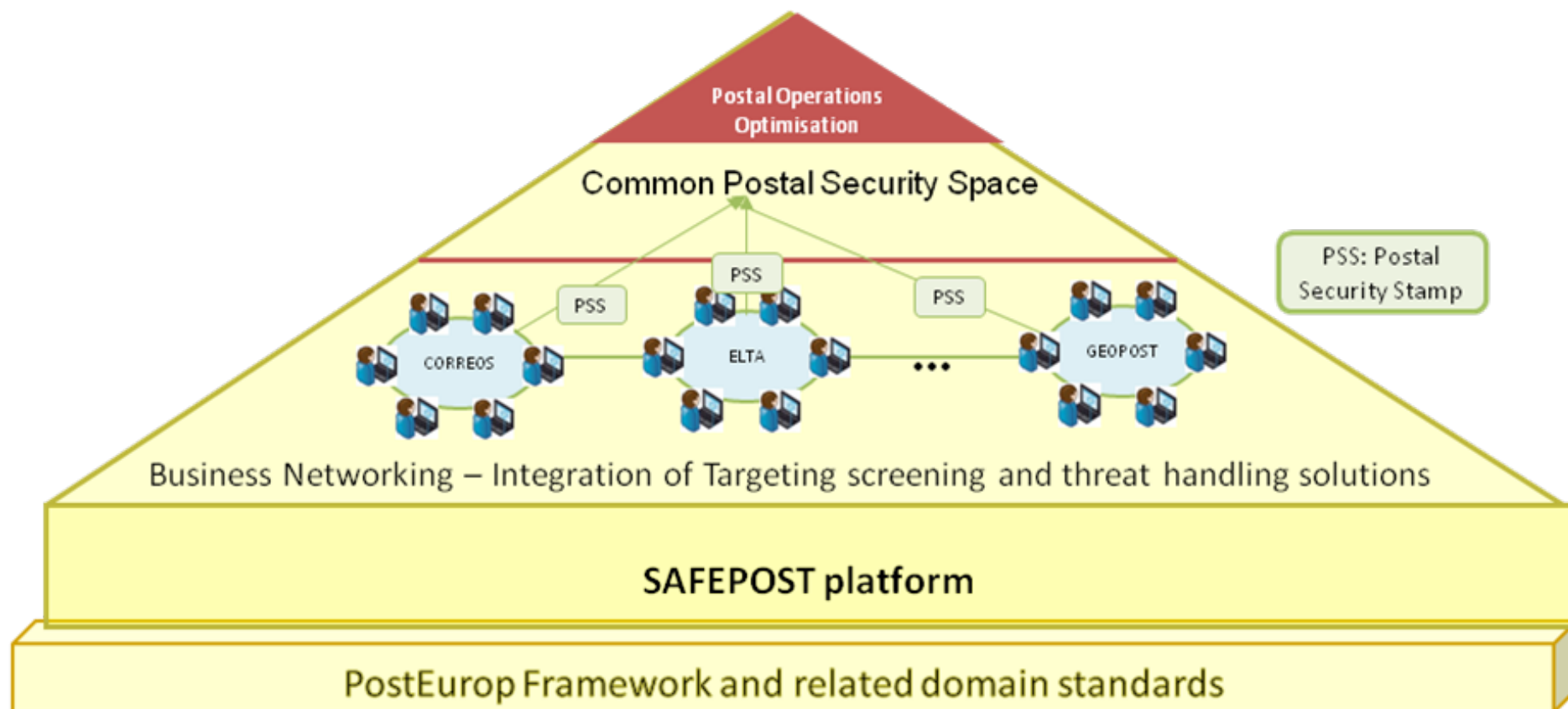
The motivation



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SAFEPOST aimed to raise the current level of postal security by integrating innovative screening solutions suitable for uninterrupted flow of the enormous volumes of parcels and letters.

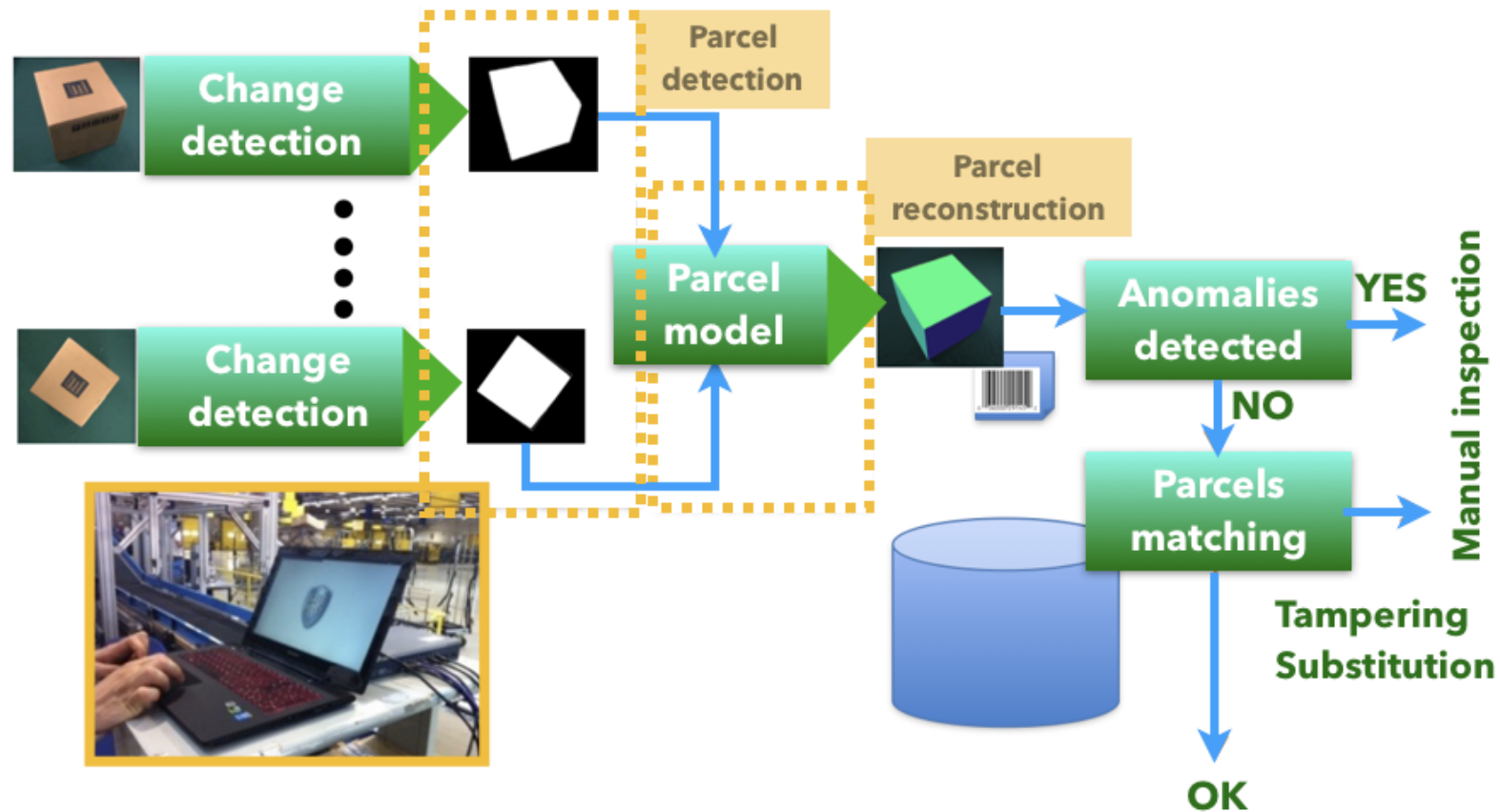
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Screening system

The SAFEPOST Screening System is a hardware-software infrastructure consisting of D-Tube, Raman and Radiak sensors, and an image recognition system.

Image recognition system



Targeting & threat handling reasoning system

The Targeting & Threat Handling Reasoning System is a high level decision support system which combines information from both the SAFEPOST sensors and other sources to conduct risk assessments.

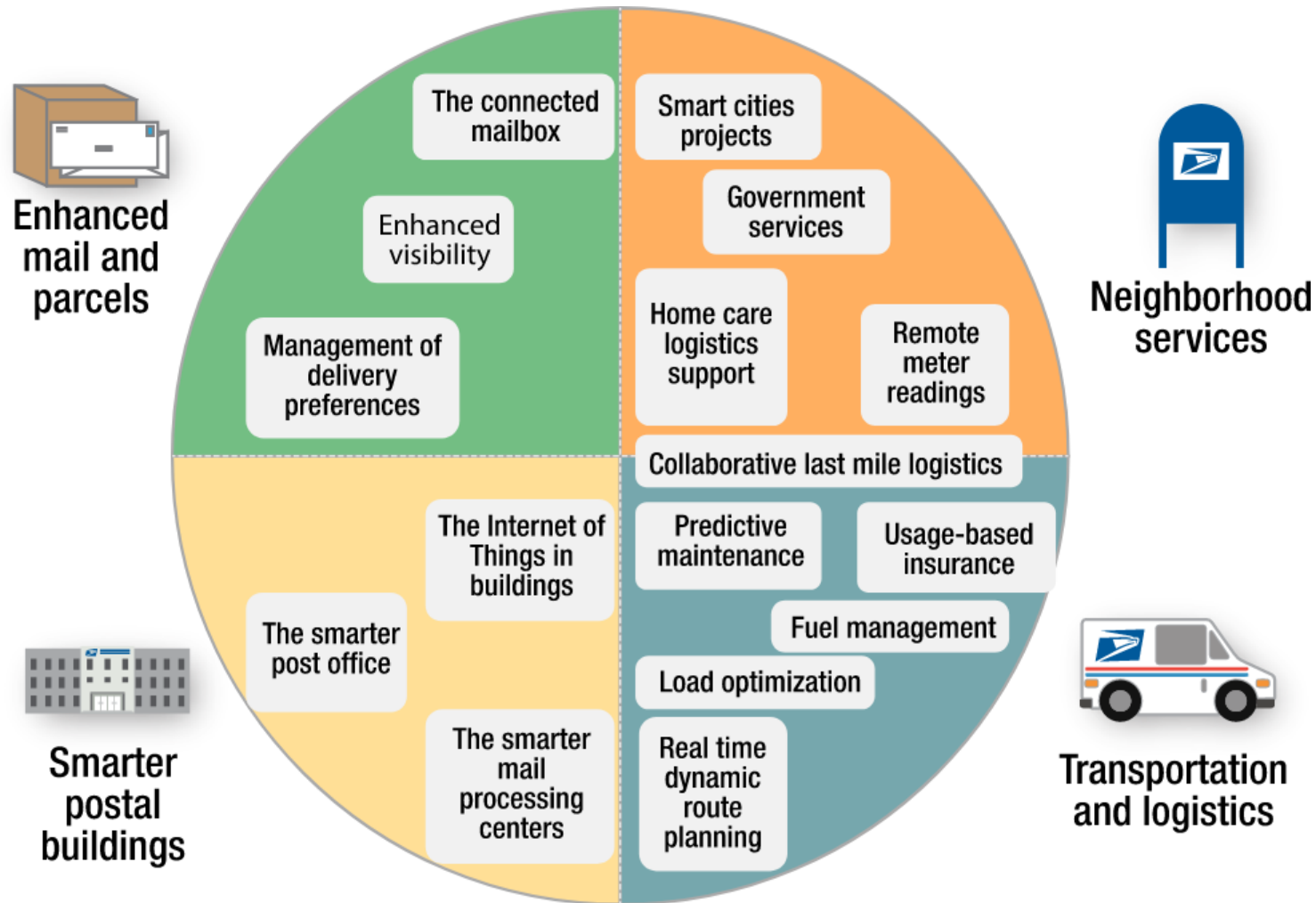
Common Postal Security Space (CPSS)

Risk-related Information sharing between postal operators and authorities is carried out thanks to the **Common Postal Security Space** (could be regarded as a Postal Security Single Window) and a message schema called the **Postal Security Stamp** (PSS). Each PSS in the CPSS is a virtual file of the screened item (parcel), containing all data that have been fused during its delivery life-cycle in the relevant postal and risk assessment processes.

Optimization component

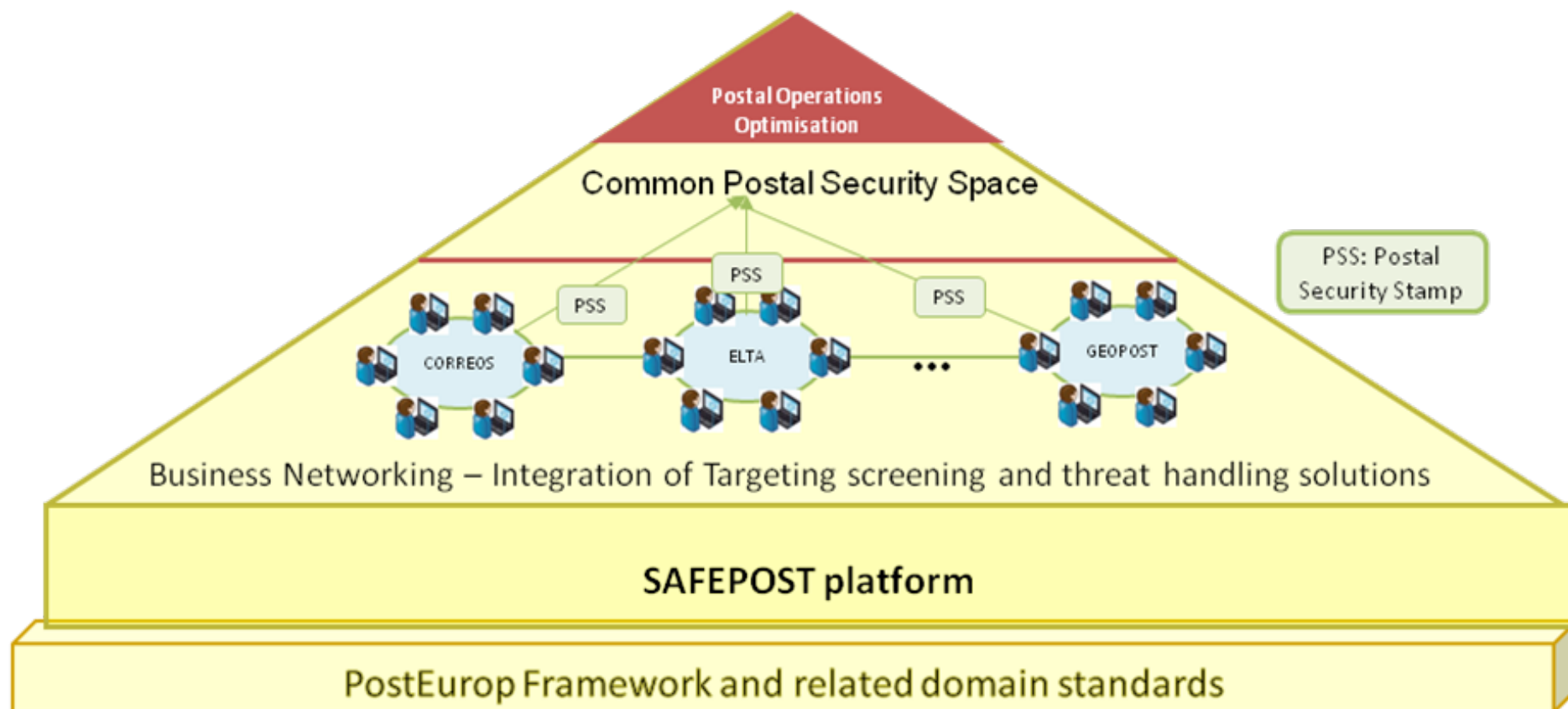
Real-time logistics optimization system that automatically reads GPS tracking data and updates the logistics plan accordingly.

The Internet of Postal Things

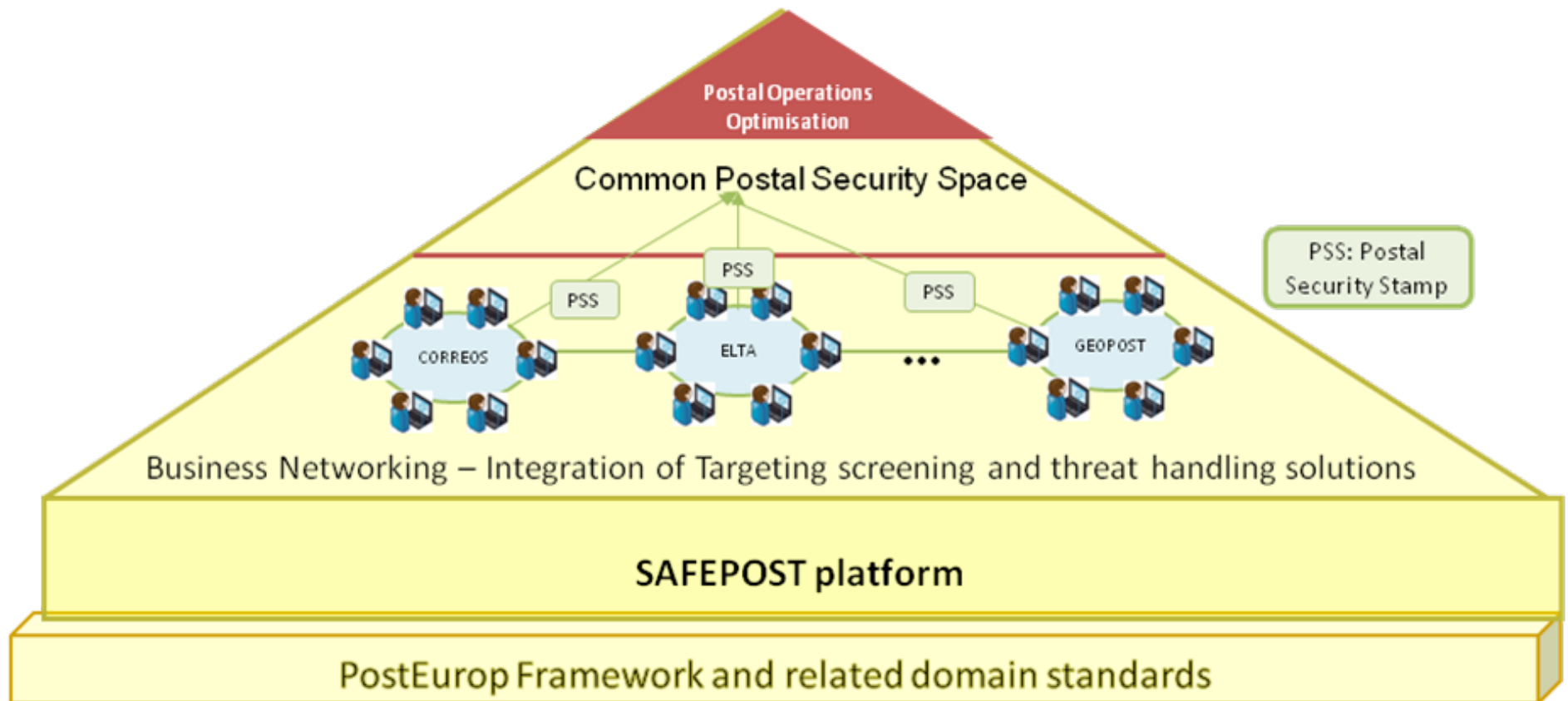


[B. Marsh and P. Piscioneri. The Internet of Postal Things. In 2015 International Conference on Collaboration Technologies and Systems (CTS), pages 3–4, June 2015]

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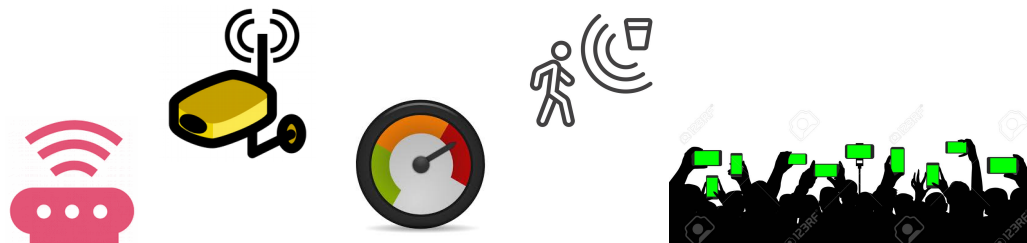
The Internet of SAFE Postal Things



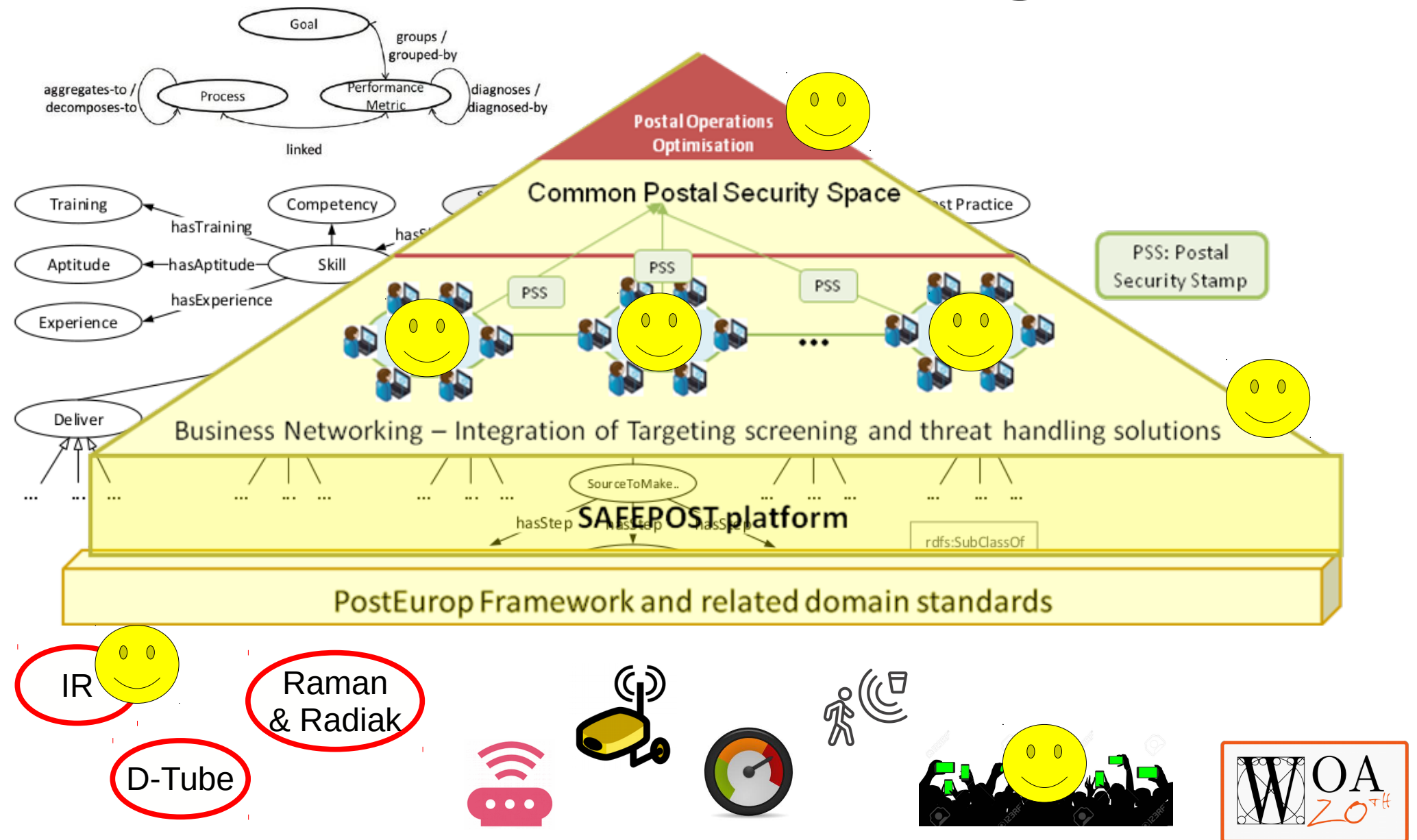
IR

Raman
& Radiak

D-Tube



The Internet of SAFE and INTELLIGENT Postal Things



Conclusions



Thank you for your attention!