



Identifying unmet needs

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Through-foliage detection of illegal cross-border activities

from Border Guards - for Border Guards







































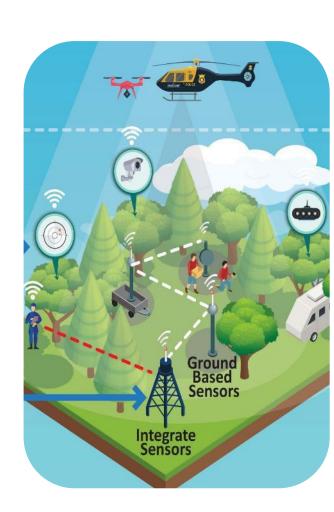






Summary

- Monitor Temporary "Hot Spots" of illegal activity
 - Irregular border crossings in forested terrain
 - Detection of illegal transport and entry of goods
- Tracking until apprehension
- Robust: combination of the best sensors and technologies;
- Reliable: intelligent fusion and self learning
- Open: integrate existing and 3. party sensors
- Effective: 24/7 situational awareness
- **Cost-effective**: monitoring of hot-spots





Timeline for End User involvement

Proposal Writing Phase- present at workshop



- Make sure the 💂 understand the benefit FOR THEM

- H2020 projects have lots of hidden opportunities- for everyone
- Project Plan- by M4 we hold at least 1 Workshop

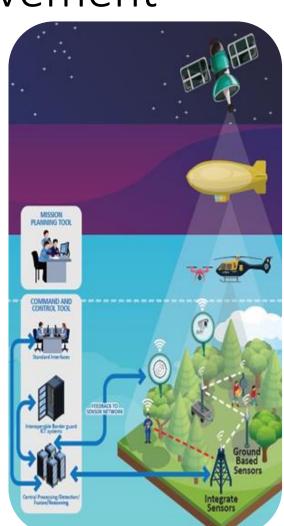


- To understand HOW they actually work
- DEMO early- in M6 we had a fist demo- without any new hardware...
 - We want to do trials (and have a few beers) as often as possible



• Visit your and make sure the first is "open"

- This will set the scene on future visits
- You want to be in the control room- not the conference room





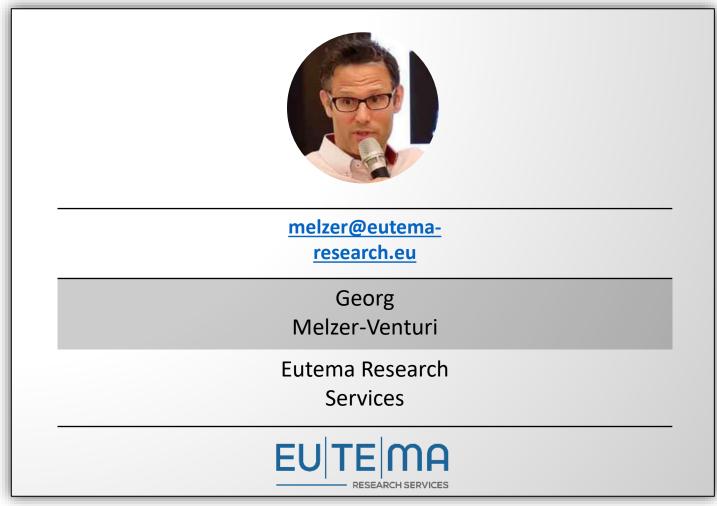


What's the Problem?

- 1. Go there
- 2. Build trust
- 3. DEMO early
- 4. Get to where the action is happening
- 5. Try often- nothing ever goes as planned
- 6. Every F*ckup is important- embrace itit will make the team closer
- 7. A person you trust is better than the big boss







Thank you!

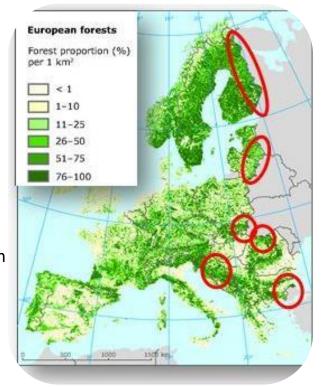
Questions & additional information





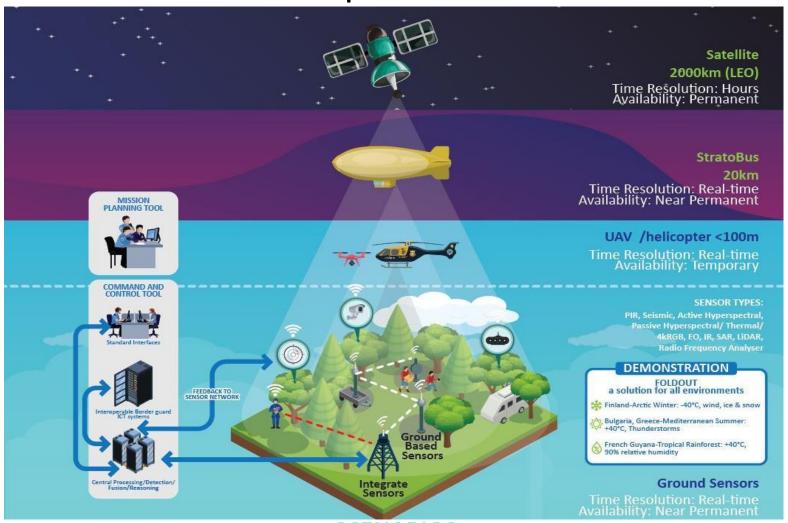
Motivation & Need

- Hundreds of km green border
- Temporary "Hot Spots" of illegal activity
 - Irregular border crossings in forested terrain
 - **Detection of illegal transport and entry of goods** (drugs, weapons human trafficking) in temperate broadleaf **forest** and mixed terrain
- Tracking of object until apprehension
- Border Surveillance needs
 - Robustness/Reliability: resistance in all climates; combination of the best sensors and technologies; intelligent fusion and self learning systems
 - Effectiveness: situational awareness results with the help of simple/interactive management in effective operations
 - Cost/benefit: total monitoring of the green borders is not cost effective





The FOLDOUT product











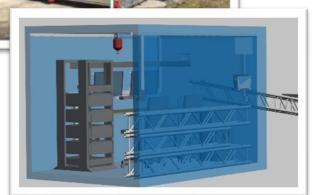
Easy-to-deploy mobile Command Centres

A Mobile Command Centre is built as a base station for deploying FOLDOUT system in remote areas.

Key Features:

- Transportability (truck or trailer helicopter)
- Energy Autonomy
- Sensor mounting mast
- Base station for local small area sensors
- Onsite data collection and processing
- Communication with C2 platform







Added Value

- Planning tool for system configuration and procurement
- Improved security though automated detection in real-time
- Full situational awareness
 - Pre-warning system
 - Improved detection and tracking
 - novel AI designed for 24/7 use
 - Intelligent fusion of data
 - Target tracking in forest
- Cost reduction by flexible self-deployment
 - transportable/mobile detection system
 - Simple to deploy in relevant border areas









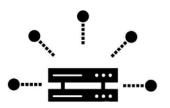
Added Value 2

- Homogenous system
 - integration of existing border-system
 - open interfaces to other sensors & systems
 - Extends available systems



- intuitive "easy to use"
- Delivers border-guards with transparent, descriptive reportable results

Border guards like to work with it









Planning Tool





Smart sense Platform

- Novel sensors detect activities
 - Al Algorithms classify and track the object in cooperation with fusion
 - Intuitive UI guides the BG to the Apprehension











IDENTIFYING UNMET NEEDS

BY EVALDAS BRUZE, L3CE

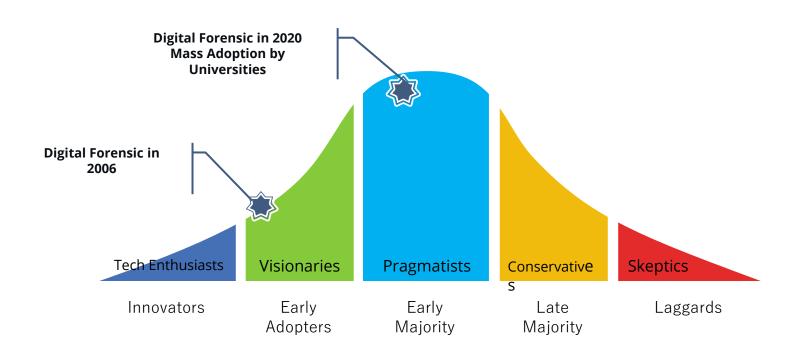
SPARTA-NAAS



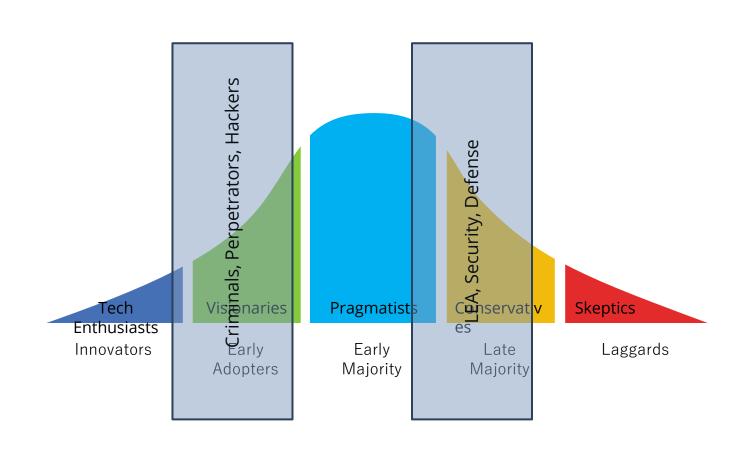


ADDRESSING DISRUPTIVE CHANGES

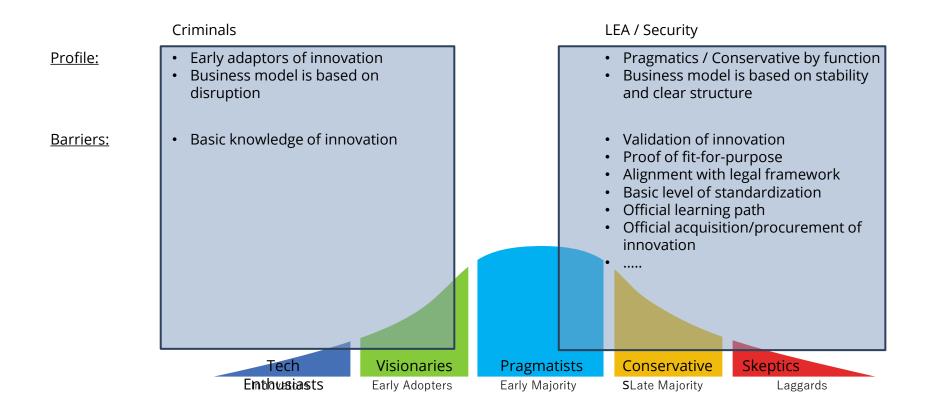
PRODUCT ADOPTION CURVE AND NEW CRIMES/THREATS



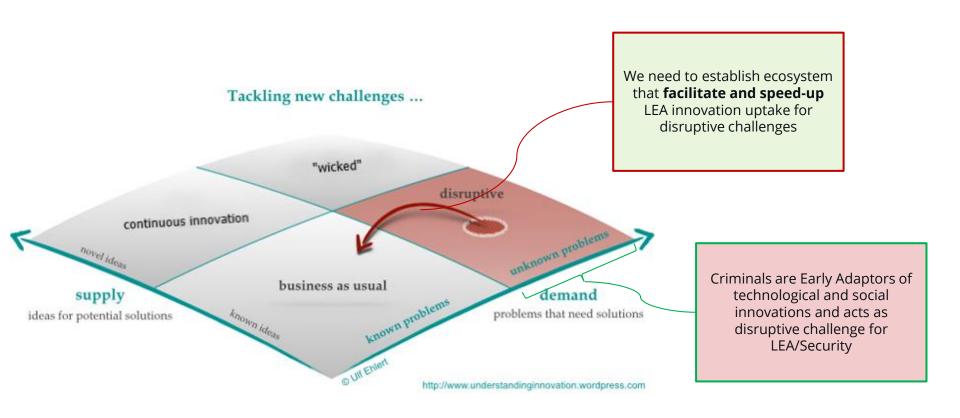
PRODUCT ADOPTION CURVE AND NEW CRIMES/THREATS



DISRUPTIVE INNOVATION ADOPTION BY SECURITY ACTORS

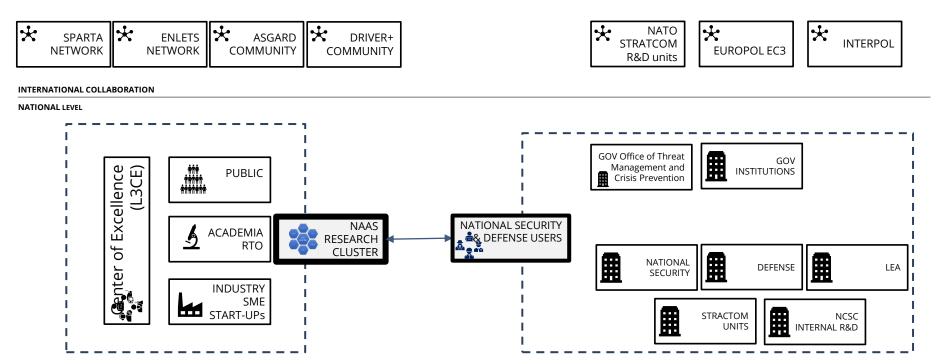


TACKLING DISRUPTIVE CHALLENGES



NATIONAL ECOSYSTEM

NAAS* COLLABORATIVE MODEL FACILITATED BY CENTER OF EXCELLENCE

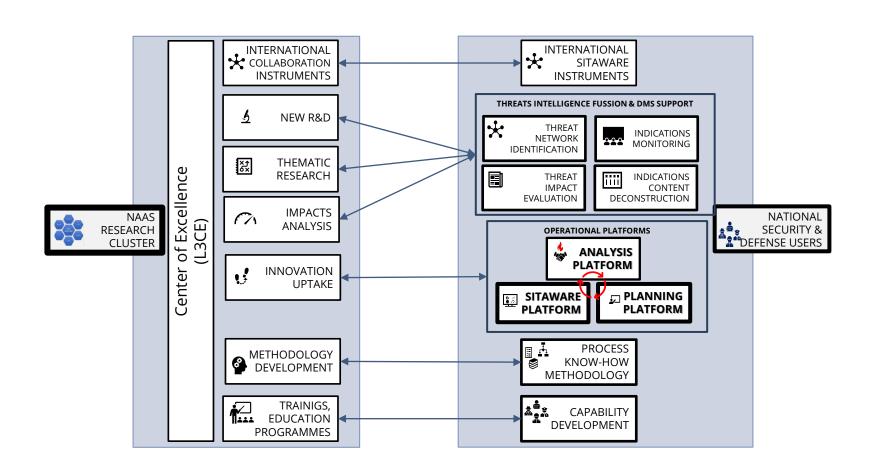


^{*} NAAS – "Information Security and Information Threats' Detection, Analysis, Research and Education Ecosystem"

CRITICAL SUCCESS FACTORS

- Trusted Environment
- Co-Creation
- Fit For Purpose
- Open mindedness And Flexibility
- Function or Goal Oriented
- Open Innovation

NAAS: VALUE EXCHANGE MODEL



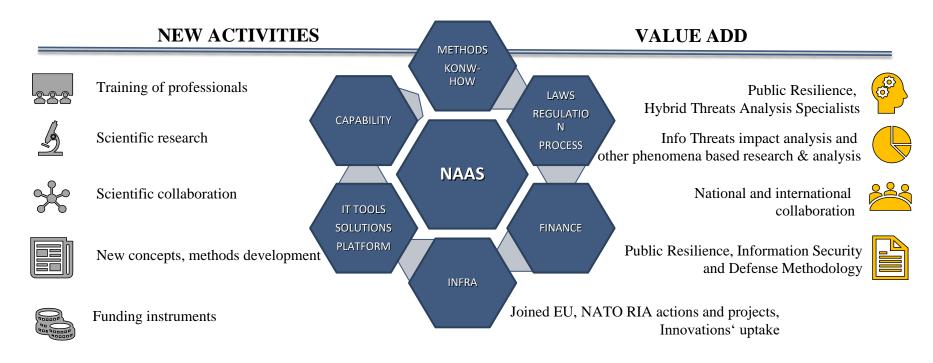
EXPECTATION ALIGNMENT





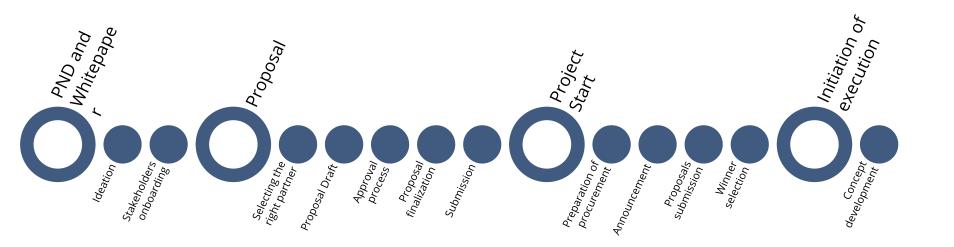
ON TIME INFORMED NATIONAL INSTITUTIONS MANAGEMENT ON THREATS PROTECTED, SUPPORTED DEFENCE & SECURITY DECISION MAKING PROCESSES NATIONAL RESOURCES ARE EFFECIVELY PLANNED



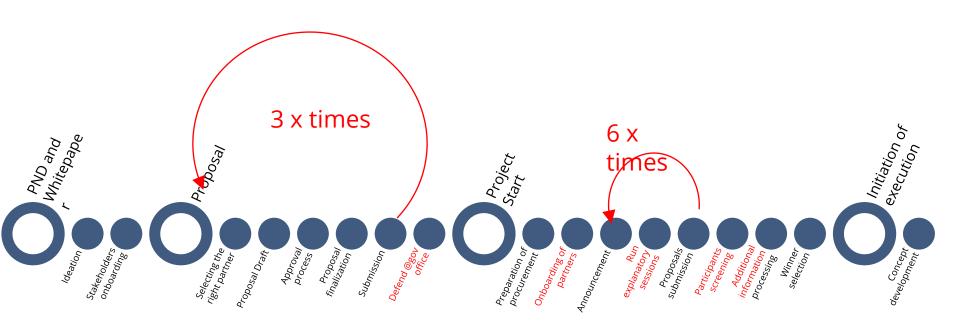


PROCUREMENT CHALLENGES

NAAS ACQUISITION PROCESS



NAAS ACQUISITION PROCESS



NEEDS AND FINDINGS

- Why innovation uptake is so difficult
 - Lack of references, high risk of failure
 - Undefined scope, high level of abstraction
 - Co-Creation require iterative approach
 - Ignorance paradox
 - Knowledge to buy innovation creation process
 - Innovation policy and strategy
 - Exposure to failure

THANK YOU!



Innovation by developing a European Procurer Networking for security research services

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 32875.





THE NEED FOR OPERATIONAL MOBILITY FOR PUBLIC SAFETY











The BroadWay project 10-03-2021

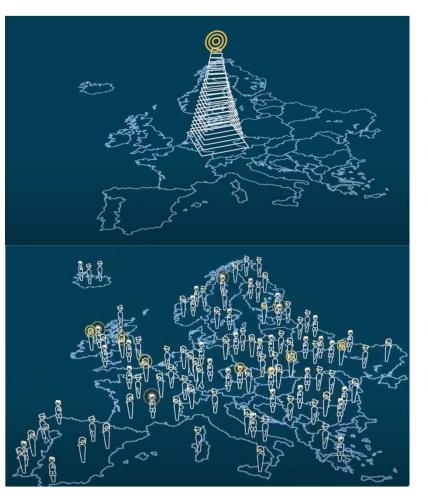
Marie-Christine Bonnamour

PSCE Secretary General

Chair of the Procurement Committee

THE CHALLENGE

 Operational mobility for public safety to enhance cross-border cooperation



What?

- Secure, Mission Critical broadband communication operable
- everywhere
- Applications & the Internet of Public Safety things (IoPST) Ecosystem
- Future evolution as technology advances standardised with no
- vendor lock

Why?

- To Improve Collaboration between responders from different
- agencies and different countries
- To Enable mobility of responders between different countries



THE CHALLENGE

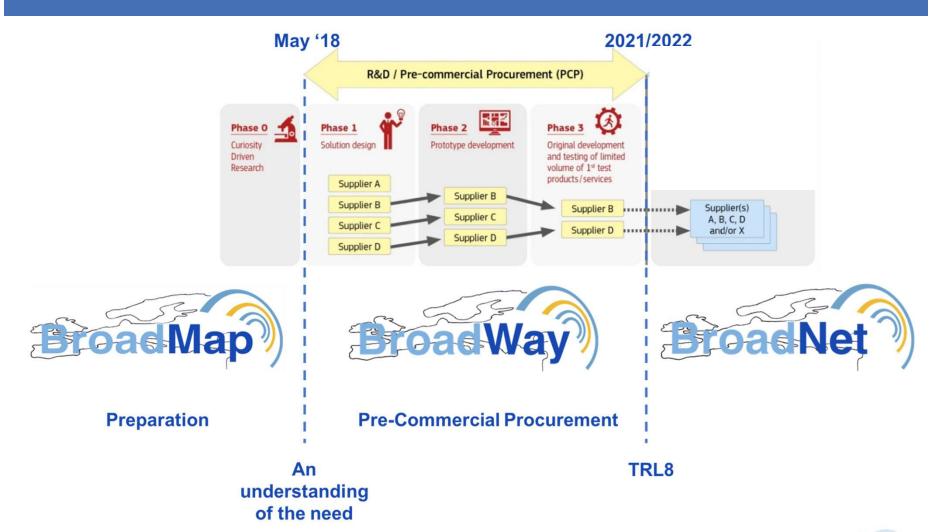
Unmet needs

- A long list of existing R&D projects with no commercial results
- A request from PSCE membership to take the lead and find solutions
- Old technology vendor lock situation
- Slow migration of national PPDR communication systems to broadband
- Need to have a boost for innovative solutions





THE PCP PROCESS







HOW TO MEET THE NEEDS? A TWO STEPS APPROACH

- 1 one year study (CSA) to assess needs and define requirements (validation and prioritisation)
 - ✓A large team of practitioners: 14 national organisations as partners of BroadMap
 - ✓ Check of requirements from previous R&D projects
 - ✓ A massive consultation of all public safety organisations

3 months of workshops	276 PPDR organisations
18 countries involved	530 practitioners







HOW TO MEET THE NEEDS?

the Pre- Commercial Procurement Process: a **user driven** approach – a **continuous** approach

- A strong team of 11 buyers in BroadWay involved in all the Technical Validation Phases to define and check the fulfilment of the technical specifications
- The involvement of practitioners to evaluate the non technical features of the solutions/systems in competition



LESSONS LEARNT

Success factors	Points of attention
Have enough time to define the requirements/specifications	A very legal process –deviations are risky
Huge involvment of buyers to define/monitor/evaluate	Efforts should not be underestimated
Need to engage with more practitioners despite procurement limitations	Limitation of the budget split (30/70%)
Sustainability	Commercialisation after PCP (PPI?)





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