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BroadWay to BroadNet: Pan European Public Safety Mobile Broadband

David Lund
President, PSCE
Programme Coordinator, BroadWay



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4th December 2019

David Lund

President of PSCE

www.psc-europe.eu



secreteriat@psc-europe.eu
@psc_e

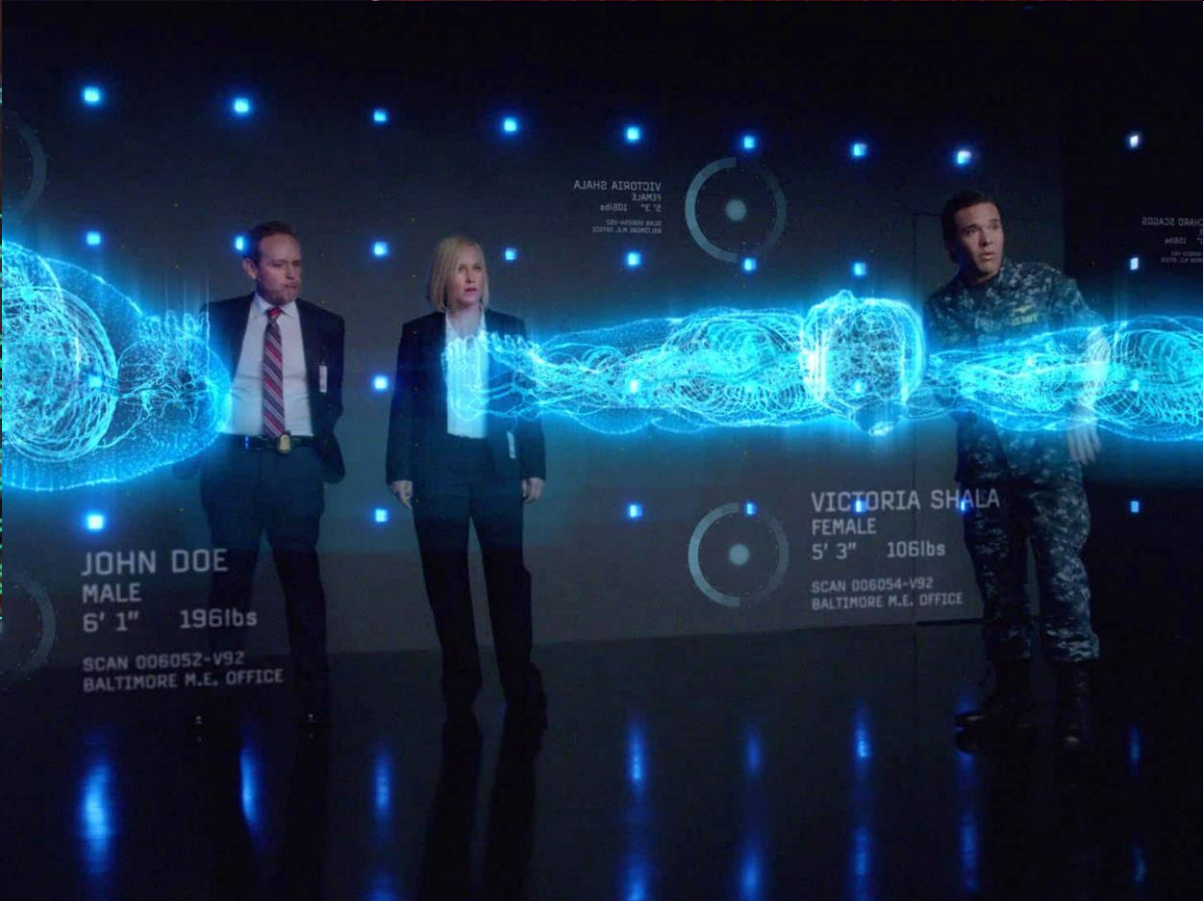
BroadWay Project Coordinator

www.broadway-info.eu



secreteriat@broadway-info.eu
david.lund@psc-europe.eu
@cyberdjl

Expectation, how PPDR should work:



Paper, pens – an extreme example, but reasonably recent

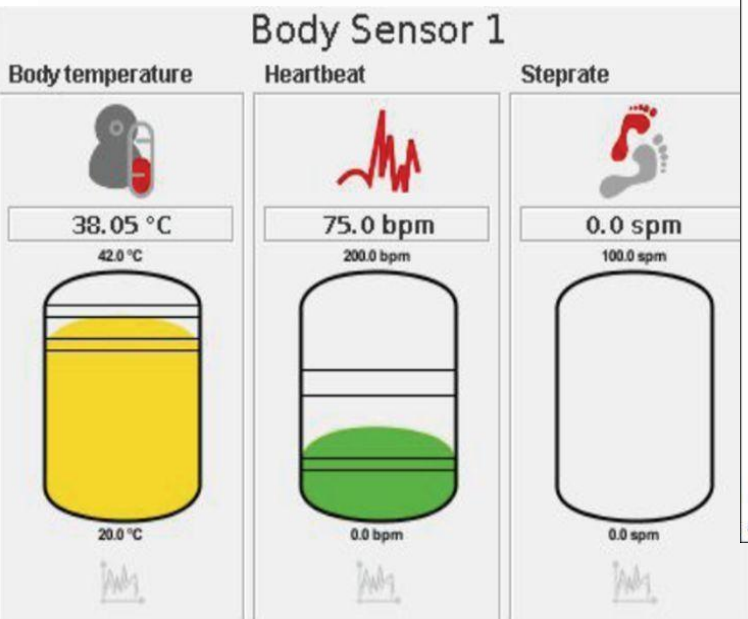


In some countries –
REAL!!

It's all about Information, Information, Information

The right info, at the right time, in the right place
for the Fire-brigades:

- Maps, orthograph-photos
- Critical infrastructure information
- Dangerous goods info
- Vital data of the fire-fighters



BODY & FOOT SENSOR

- Monitoring of specific parameters:
 - Heartbeat & Temperature
 - Foot pressure force



It's all about Information, Information, Information

The right info, at the right time,
in the right place for the Ambulances:

- Fleet management – the right ambulance
- Patients data history
- Remote experts support on scene, at move
- Video/photo/vital data to the hospital



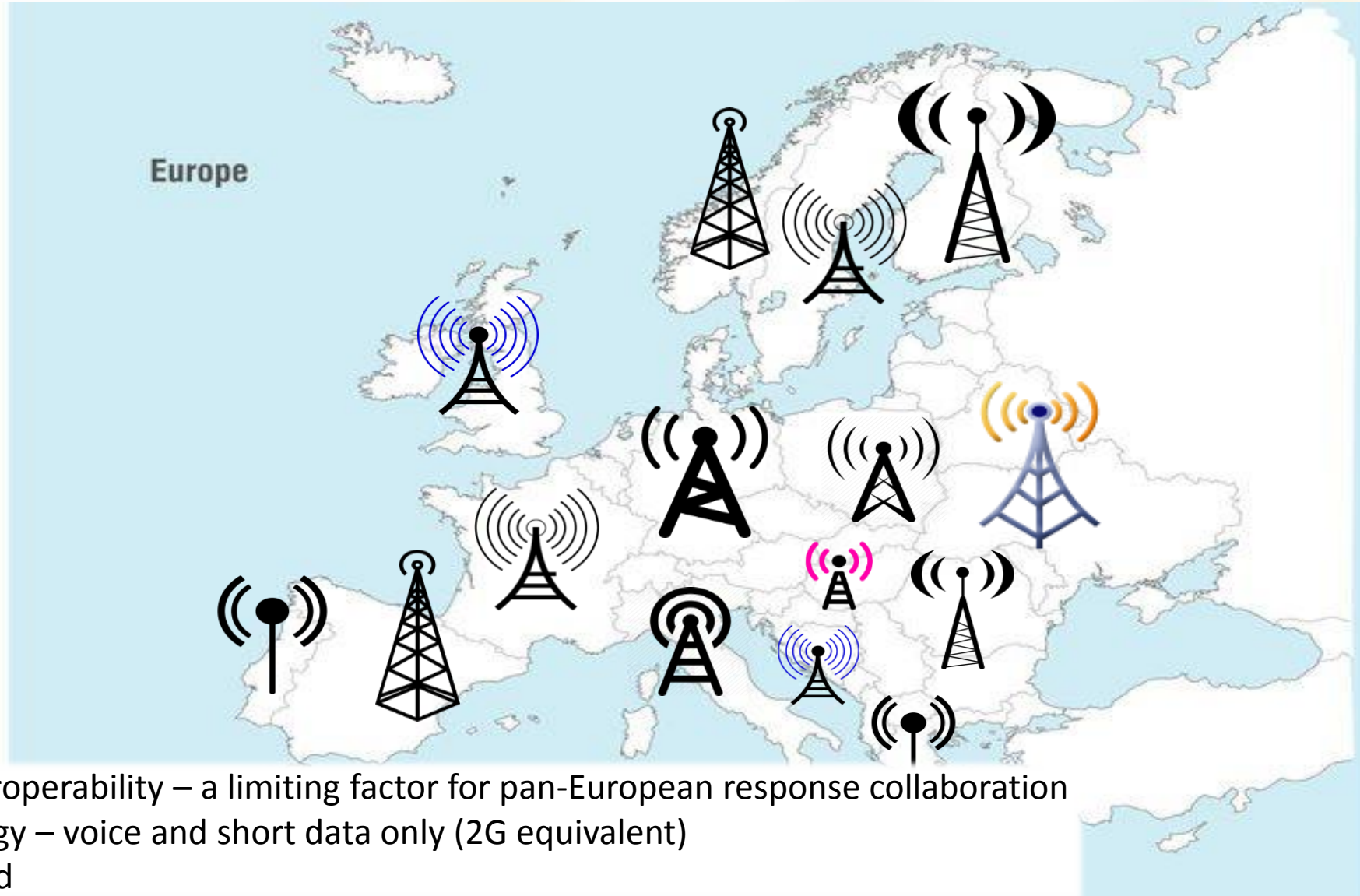
It's all about Information, Information, Information

The right info, at the right time, in the right place for the Police:

- Fleet management – coordinating resources
- Video transmission to the car (video from the bank robbery is already available at HQ....)
- Collecting evidence („Unfriendly clients“)

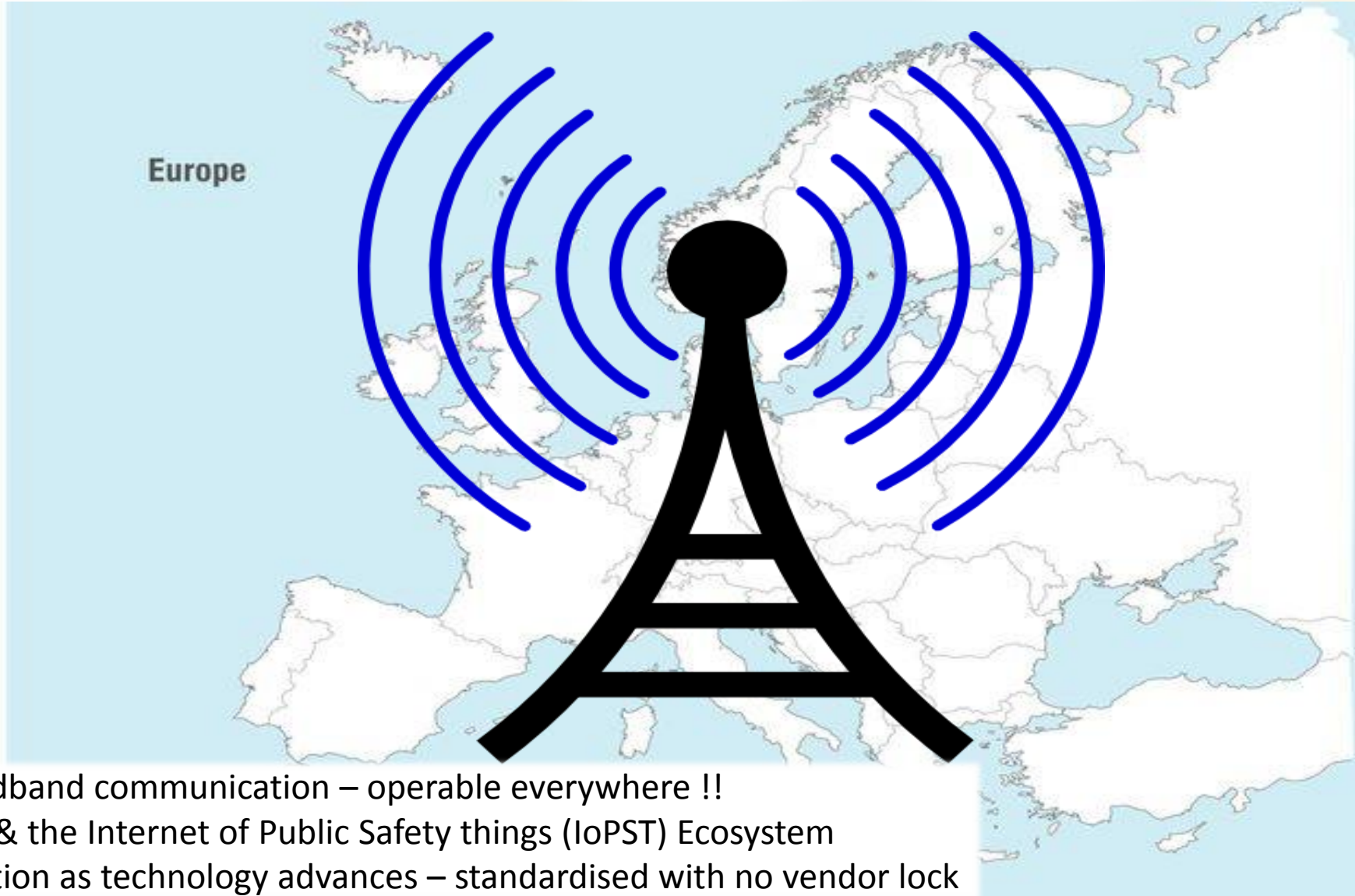


The Common Challenge – we have today



- Minimal interoperability – a limiting factor for pan-European response collaboration
- Old technology – voice and short data only (2G equivalent)
- Vendor locked

The Common Challenge – we need today



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

Strasbourg shooting: French and German police hunt gunman

The 29-year-old, who authorities say was radicalised in prison, is still on the run



https://ec.europa.eu/echo/news/largest-eu-civil-protection-operation-helps-sweden-fight-forest-fires_en



EUROPEAN CIVIL PROTECTION AND HUMANITARIAN AID OPERATIONS

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The largest EU civil protection operation helps Sweden fight forest fires



Fighting the forest fires in Sweden was the largest European Civil Protection operation for forest fires in the last decade. © EU 2018 (photo by Pavel Koubek)

Over 360 fire-fighting personnel, 7 planes, 6 helicopters and 67 vehicles were mobilised through the European Civil Protection Mechanism in the past three weeks to assist Sweden in combating unprecedented forest fires.

This is the largest European Civil Protection operation for forest fires in the last decade and the single biggest operation on forest fires in terms of deployment of staff. The operation included 815 flying hours and 8 822 drops of water.

National ~~transition to~~ adoption of mobile broadband

- Some countries are active to develop their roadmap ...
- Some have a roadmap but not yet approved, ...
- Some are actively procuring...
- Some are live...

BroadWay Partnership



Public Safety
Communication
Europe (PSCE) Forum
– Project Coordinator
– Belgium



ASTRID – Lead
Procurer – Belgium



**Bayerisches
Rotes
Kreuz**



Bird & Bird – Legal –
Belgium

Bayerisches Rotes
Kreuz – Bavarian Red
Cross – Responder
Practitioner
Validation Team Lead
– Germany



Ministerio Del Interior
– Procurer – Spain



Ministère de
l'Intérieur –
Procurer – France



State
Infocommunication
Foundation / Riigi
Infokommunikatsiooni
Sihtasutus – Procurer
– Estonia



NAKIT – Procurer –
Czech Republic



State Security
Networks / Suomen
Virveverkko Oy –
Procurer – Finland



An Garda Síochána –
National Police
Service of Ireland –
Procurer – Ireland



Special
Telecommunications
Services – Procurer –
Romania



Centre for Security
Studies – Ministry of
Citizen Protection &
Public Order –
Procurer – Greece



Ministero dell'Interno
– Procurer – Italy



The National Police
of the Netherlands –
Procurer – The
Netherlands

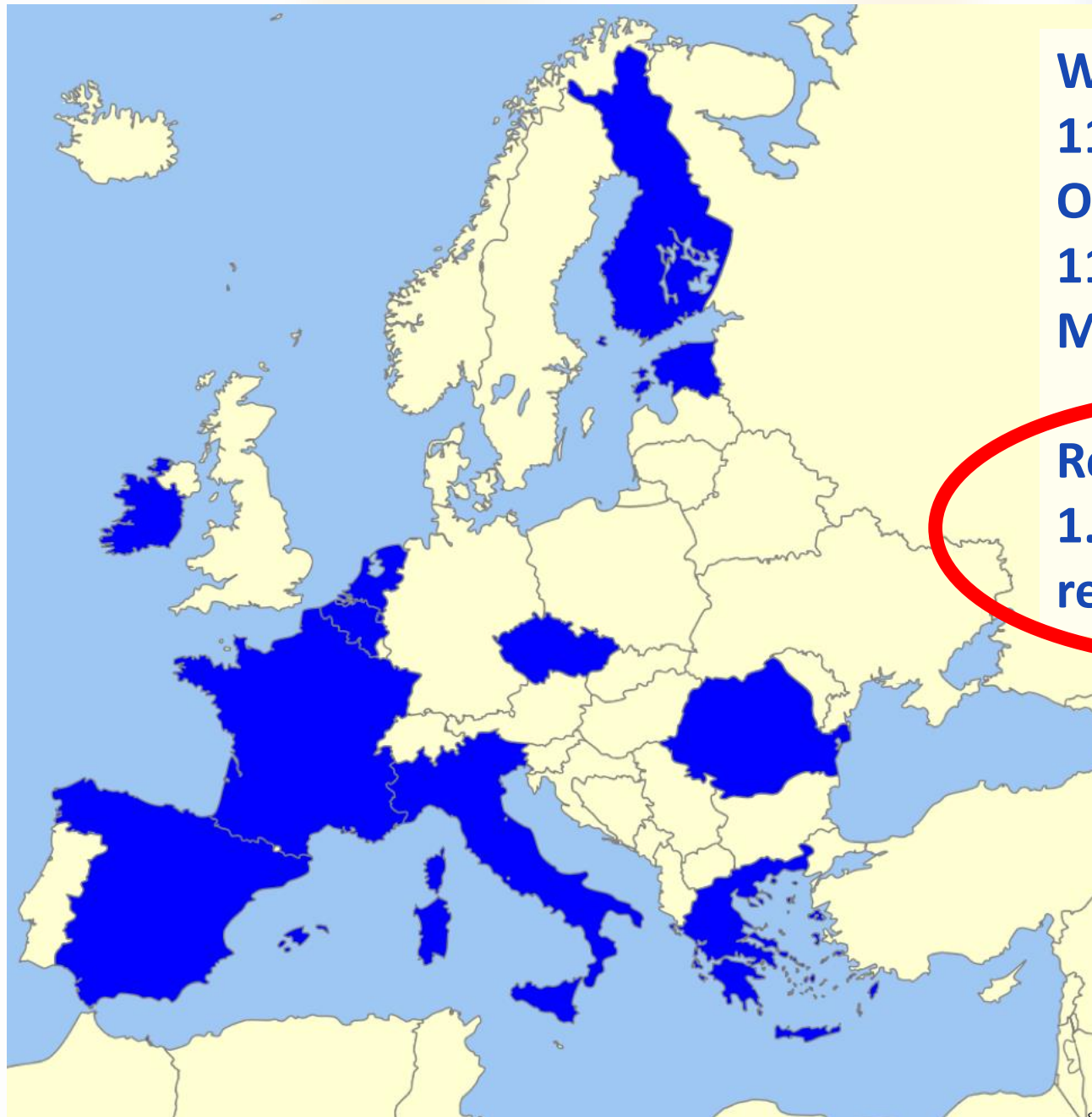




Procurement & Evaluation Teams

Our procurers supply crucial communication services to ~1.4 Million European responders across 11 countries.

Responders from all disciplines will evaluate this new pan-European capability. User driven requirements, and user driven conformance.



We are a team of
11 Government
Orgs in
11 European
Members states

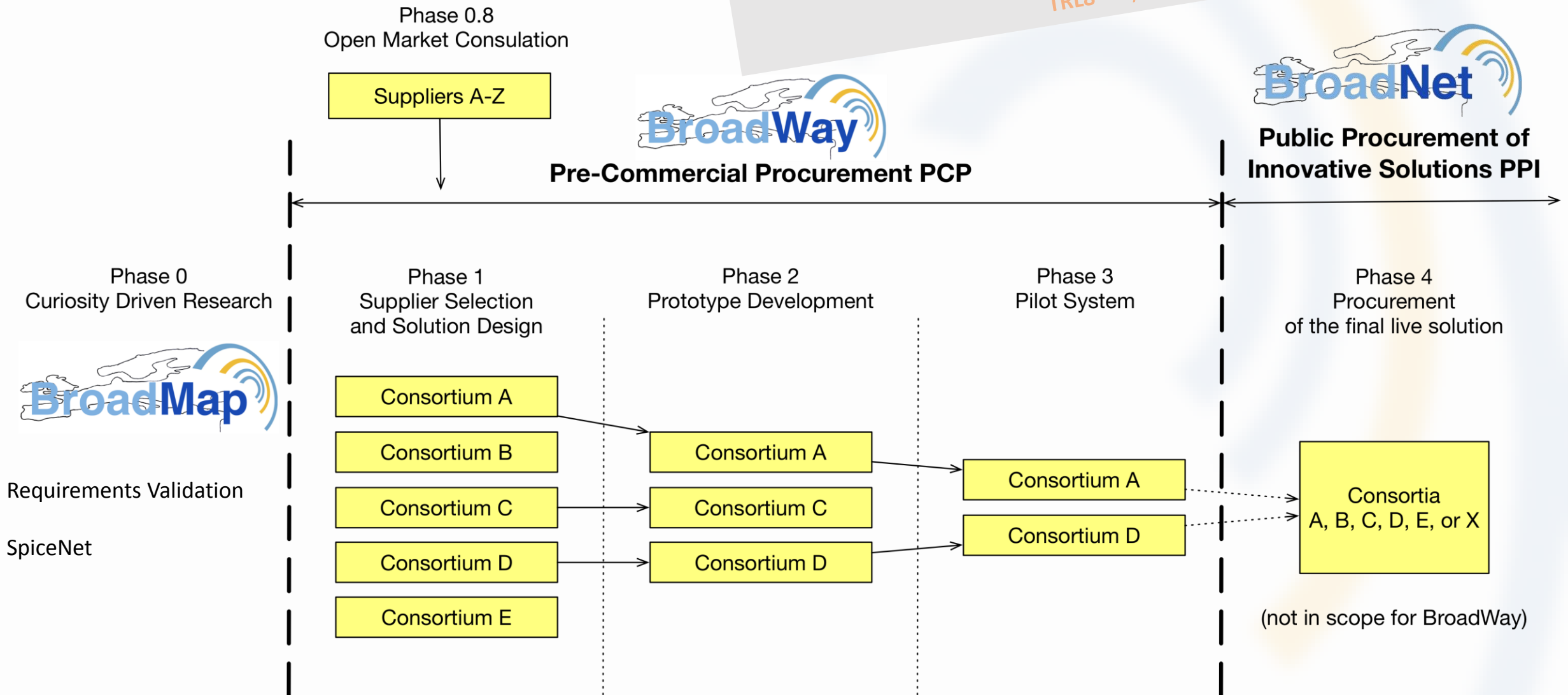
Representing
1.4 Million
responders

PCP Process - detailed

We're procuring industry expertise and their innovation, and their technical capability to implement prototypes and a pan-European pilot

We are not procuring infrastructure or equipment

TRL8 - System Complete and Qualified





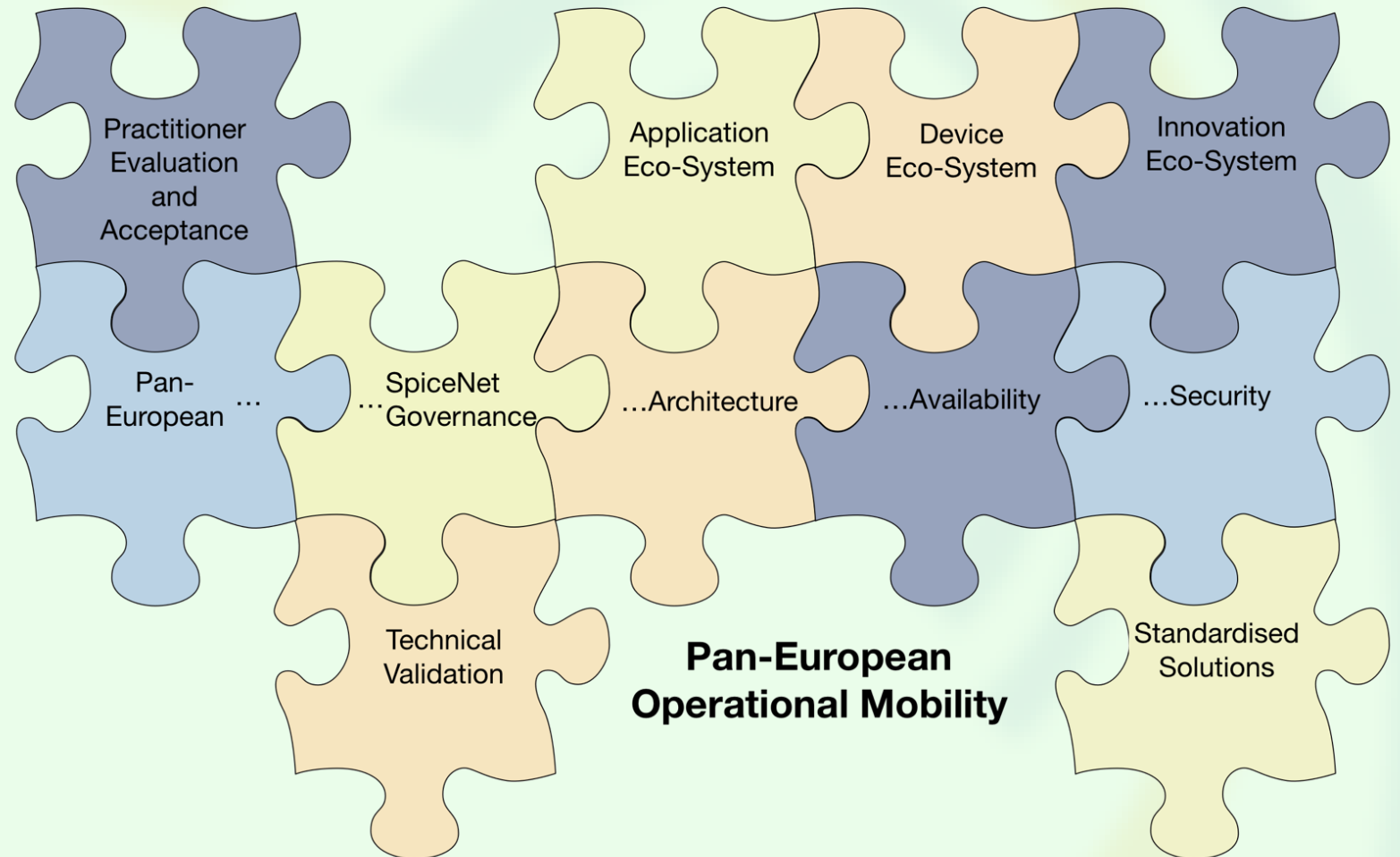
Pan-European



Ambition

BroadWay is ambitious!

Click here to find out
how ambitious we
really are



Supplier Response to RFT

- 79 Questions
- 33 Clarifications
- 2 Simplifications
 - Easy to read view on IPR
 - Simplified partner involvement during phases

Interest

- 124 companies listed on the Partnering tool

Mobile Operator, Satellite or other provider of comms coverage	Mobile Infrastructure Vendors	Terminal Suppliers	Mission Critical Services	Mission Critical Applications	Security Architect
Test Equipment Vendor	Communication Stack Developers	Testing Services	Security Assurance	Practitioner Evaluation Support	

- Tenders were received on 22nd August 2019
- 7th October 2019 signing with suppliers who are entering the Design phase



Max Brandt, DG Home, European Commission.



David Lund, BroadWay Project Coordinator



Marc de Buyser, CEO of Astrid, BroadWay Lead Procurer

Luc Dermine, Chief Financial Officer of Astrid, exchanging signed contracts with BroadWay suppliers



Yves Van Tente, Airbus DS SLC



Robert Nitsch, Frequentis



Claudio Becchetti, Leonardo



Bert Bouwers, Rohill

Phase 1 - Solution Design - Successful Consortia



Consortium A

Lead Contractor: Airbus DS



Consortium B

Lead Contractor: Frequentis



Consortium C

Lead Contractor: Leonardo

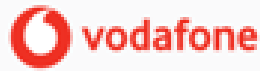


Consortium D

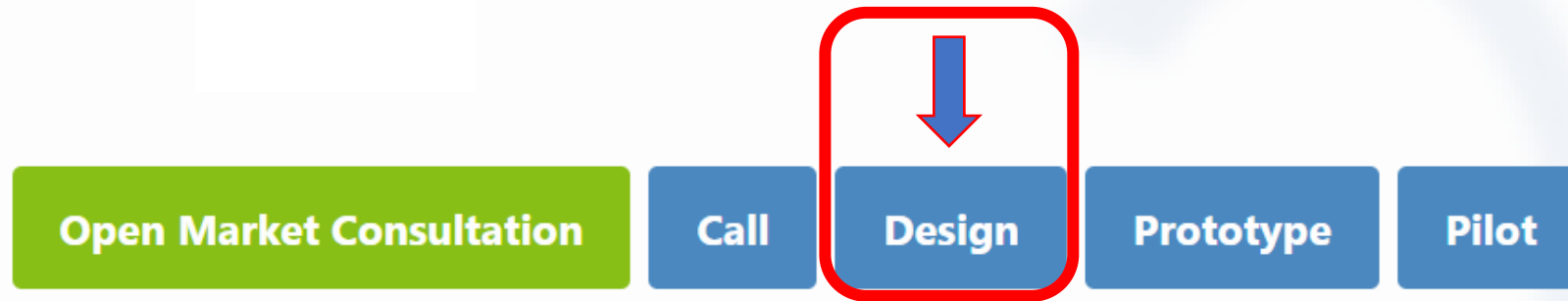
Lead Contractor: Rohill



34 companies involved.
More will be added in
future phases



Estimated Schedule for Phases



Design Activity: October '19 to April '20

Estimated Schedule for Phases



Call off: April '20 to June'20

Prototype Activity: June '20 to May '21

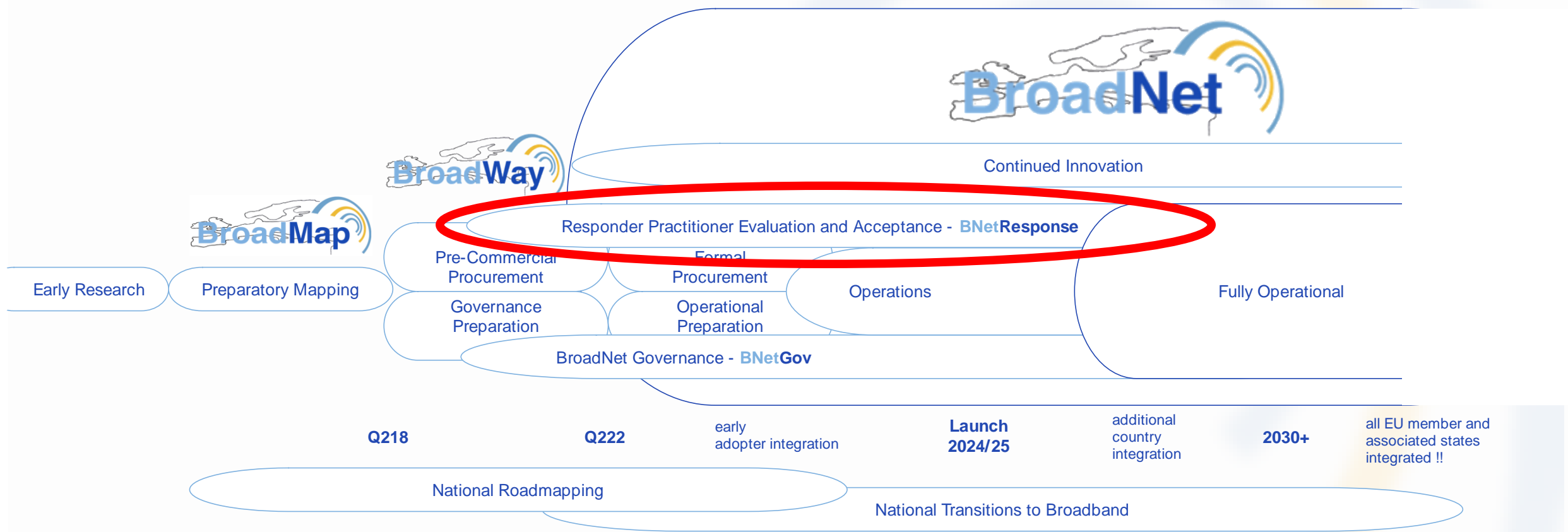
Estimated Schedule for Phases



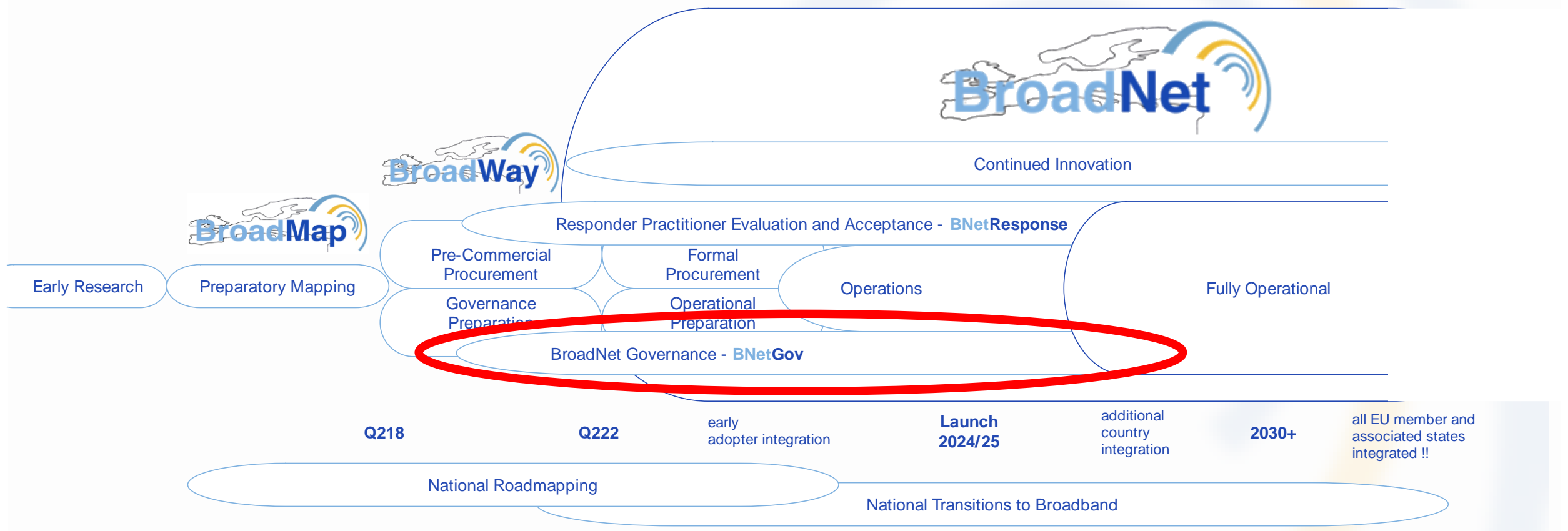
Call off: June '21 to July '21

Pilot Activity: Aug '21 to June '22

Towards BroadNet – BNet Response



Towards BroadNet – BNet Gov



Who Else Can contribute?

PPDR User Organisations – BNet Response

in the evaluation of the pilot systems
(„Practitioner Evaluation“)

yes

National Operator of Public Safety Mobile Broadband -

in the work on Sustainability - BNetGov

yes

Innovative Supplier -

Join an existing team

yes

We all have a **collective responsibility** to make sure that
the **Public**, and we all are **kept safe**

Technology and information exchange must be assured to
be **trustworthy!**

PPDR responders in the field must be able to make well
informed decisions!

Technology must be **usable** and therefore **useful...**

Any time, any place !!!

In any **harsh** and **compromised** situations



Thanks for listening !!

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