



**David Lund, Coordinator of BroadWay**

**BroadWay** : A new step towards a pan-European  
interoperable broadband public safety network

PSCE Conference, Bled, 13<sup>th</sup> December 2018



**Why are you here today?**



**You have a goal to help improve public  
safety operations – right ?**



**We need you !!**

**PLEASE GET INVOLVED !!**

**WE NEED YOU !!!**

## European Interoperable mobile broadband for Public Safety

To Improve Collaboration between responders from different agencies  
and different countries

To Enable mobility of responders between different countries



**WE NEED YOU !!!**

**WE HAVE ~€9M to spend**

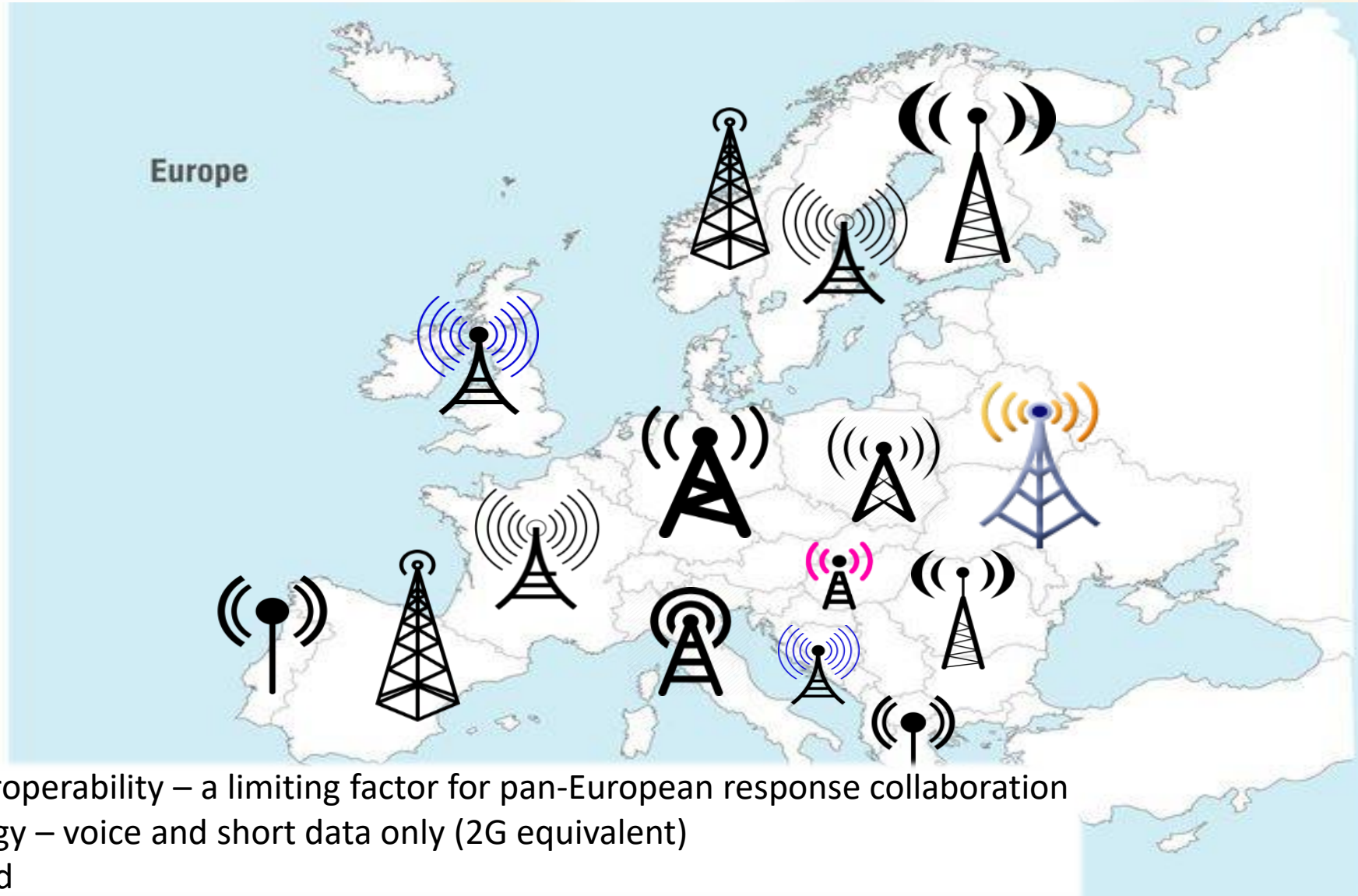
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# The Common Challenge

## – we have today

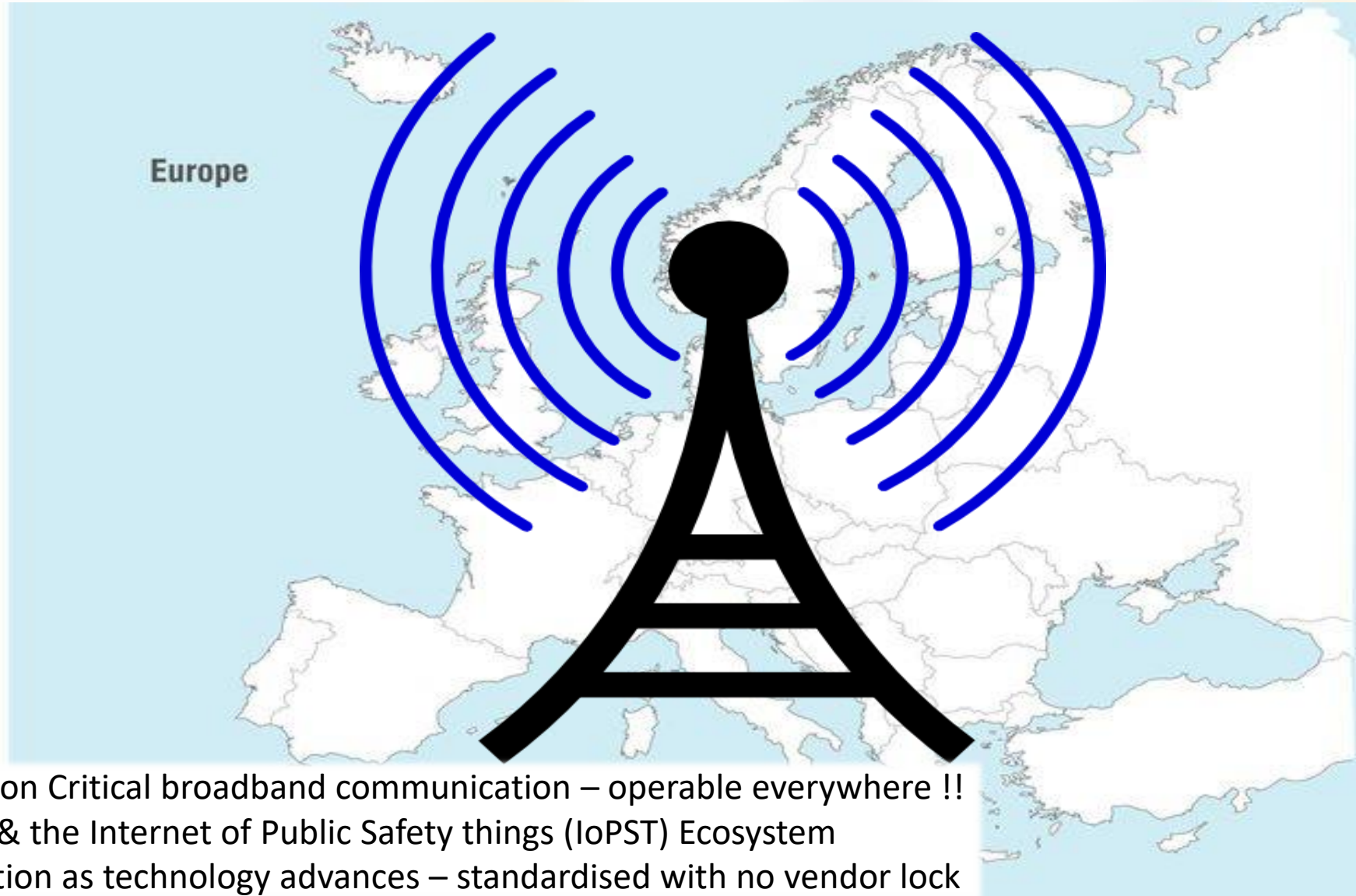


- Minimal interoperability – a limiting factor for pan-European response collaboration
- Old technology – voice and short data only (2G equivalent)
- Vendor locked



# The Common Challenge

## – we need today



- Secure, 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

# Ultimate Goal



## European Interoperable mobile broadband for Public Safety

To Improve Collaboration between responders from different agencies  
and different countries

To Enable mobility of responders between different countries

Ultimate Goal



**In any case...**

**Bad things that happen, don't care about borders**

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# What PPDR need today?



Political agreements

Operational agreements

Technical level

**Operational Mobility**

# BroadWay Goal

The primary goal of this project is to:

***Procure Innovation activity to develop and demonstrate TRL8 technologies that will enable a pan-European interoperable broadband mobile system for PPDR, validated by sustainable testing facilities***

# TRL8

## Pre-commercial Procurement

### G. Technology readiness levels (TRL)

Where a topic description refers to a TRL, the following definitions apply, unless otherwise specified:

- TRL 1 – basic principles observed
- TRL 2 – technology concept formulated
- TRL 3 – experimental proof of concept
- TRL 4 – technology validated in lab
- TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 7 – system prototype demonstration in operational environment
- TRL 8 – system complete and qualified
- TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)

# TRL8

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**We're not procuring the final, live, TRL9 systems  
We don't know what it will look like yet**

- TRL 3 – technology validated in laboratory environment (industrially relevant environment in the case of key enabling technologies)
- TRL 4 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 5 – system prototype demonstration in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
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# TRL8

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

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# Ultimate Goal

## Pan-European mobile broadband for Public Safety

To '**IMPROVE**' Collaboration between responders from different agencies and different countries

To '**ENABLE**' mobility of responders between different countries



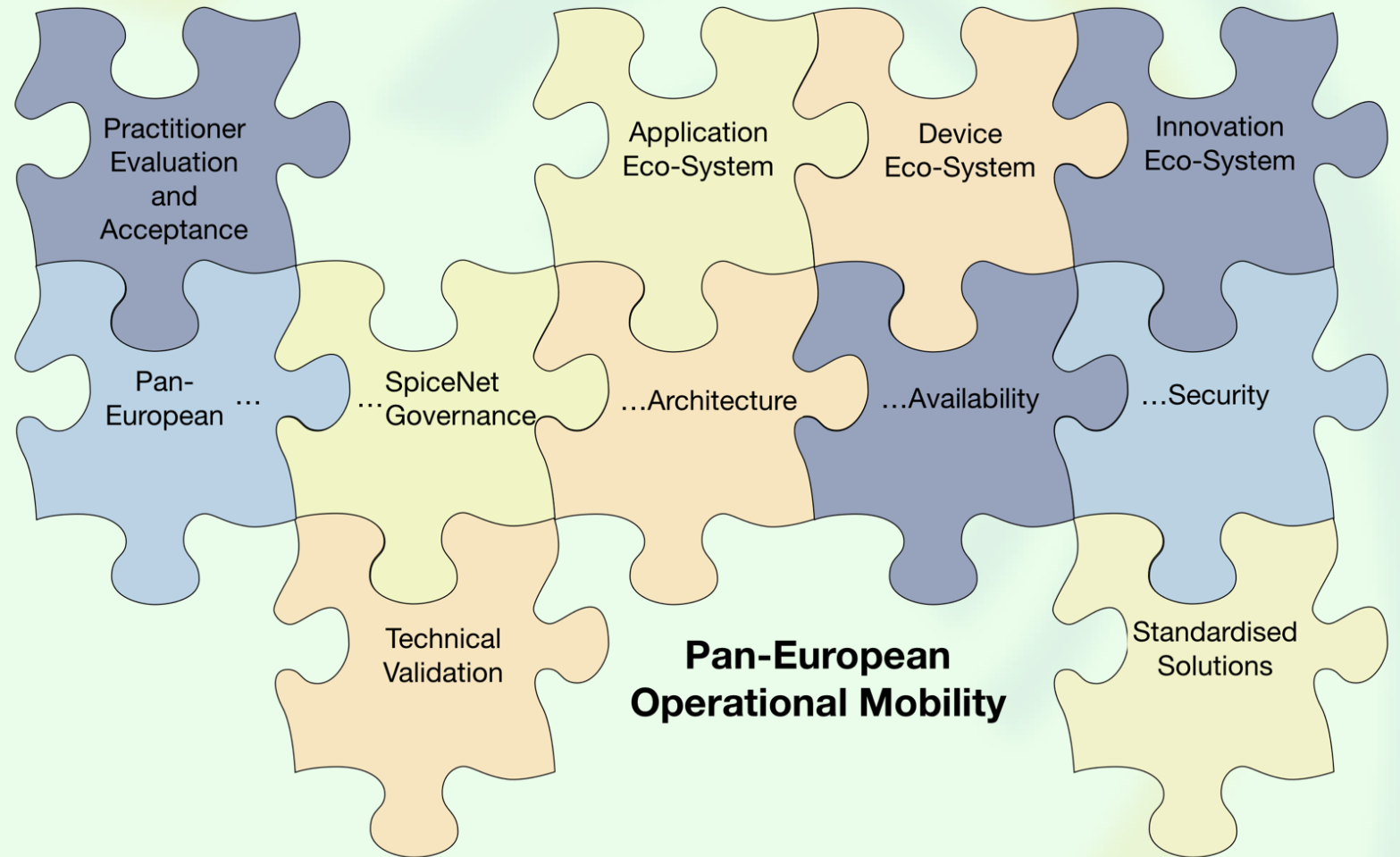
## Pan-European



## Ambition

BroadWay is ambitious!

Click here to find out  
how ambitious we  
really are





## Pan-European



## Use Cases

Some useful example use case scenarios that help to understand the scope of how BroadWay solutions will be used



Rescue operation – Barge of Irregular Migrants



Following a “go fast” drug convoy from south of Spain to Germany



Database queries from other EU country's PPDR organization



VIP protection and escort on high level summit in Brussels



Rescue operation – A Cruising ship on fire at Adriatic Sea



Heavy Truck and Tourist Bus collision at Finnish-Norwegian border



Natural Disaster – Forest Fire



## 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**

# BroadWay Partnership



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



ASTRID – Lead  
Procurer – Belgium



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



Bird & Bird – Legal –  
Belgium



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



Ministero dell'Interno  
– Procurer – Italy



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



The National Police  
of the Netherlands –  
Procurer – The  
Netherlands

# Do you use Mobile Communication for Public Safety Operations

Practitioner Evaluation Team

**WE NEED YOU !!!**

**1<sup>st</sup> Meeting:**

**23<sup>rd</sup> January 2019**

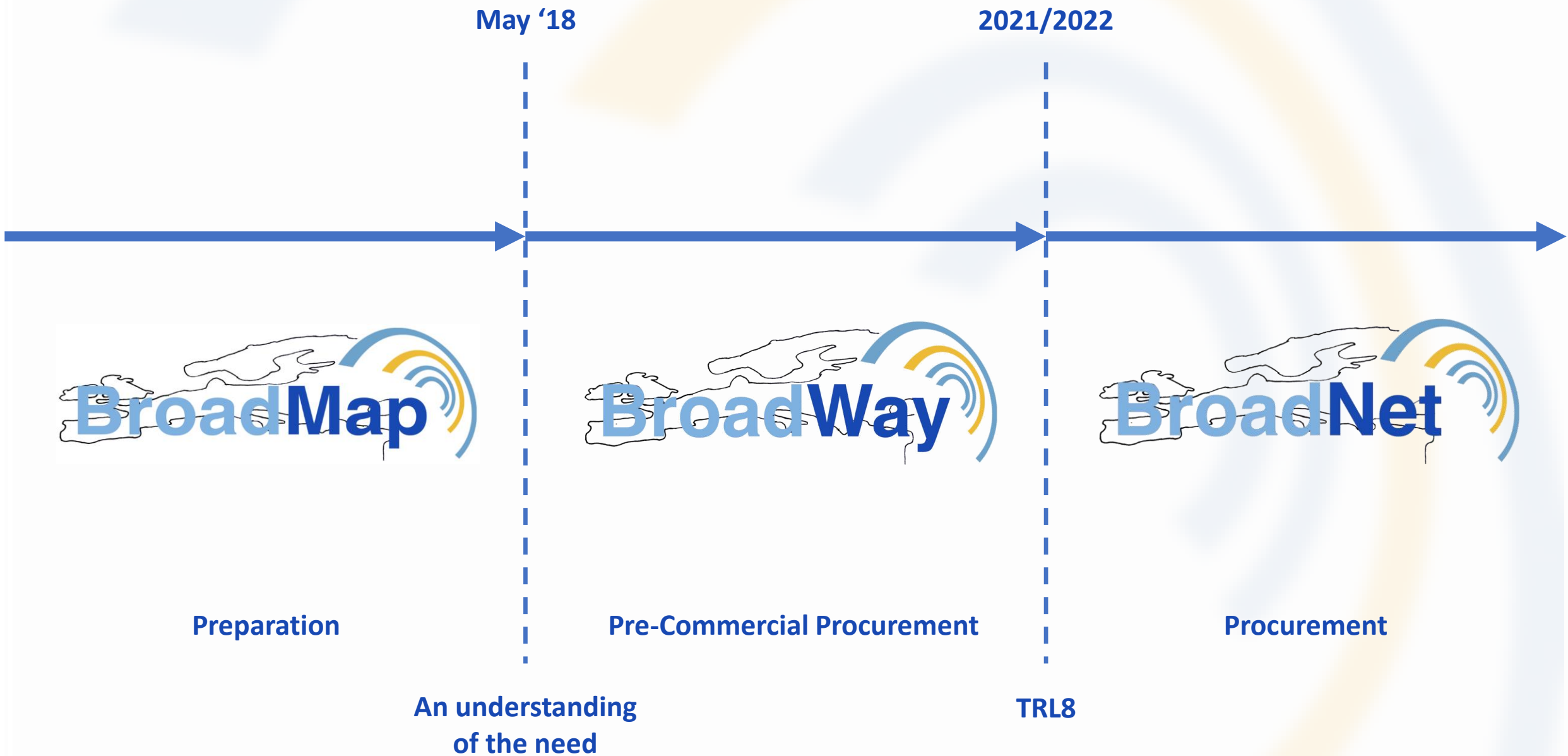
**Register:**

**[www.broadway-info.eu](http://www.broadway-info.eu)**



**Original Support from  
49 Responder Practitioners  
19 Countries**

**Lead by Bavarian Red  
Cross**



May '18

2021/2022



Preparation

Pre-Commercial Procurement

Procurement

An understanding of the need

TRL8

# Requirements analysis docs are public



[www.broadmap.eu](http://www.broadmap.eu)

**National and international workshops:  
15 project partner countries**

- **over 270 PPDR responder organisations**
- **from 18 countries**
- **600+ public safety responder practitioners**



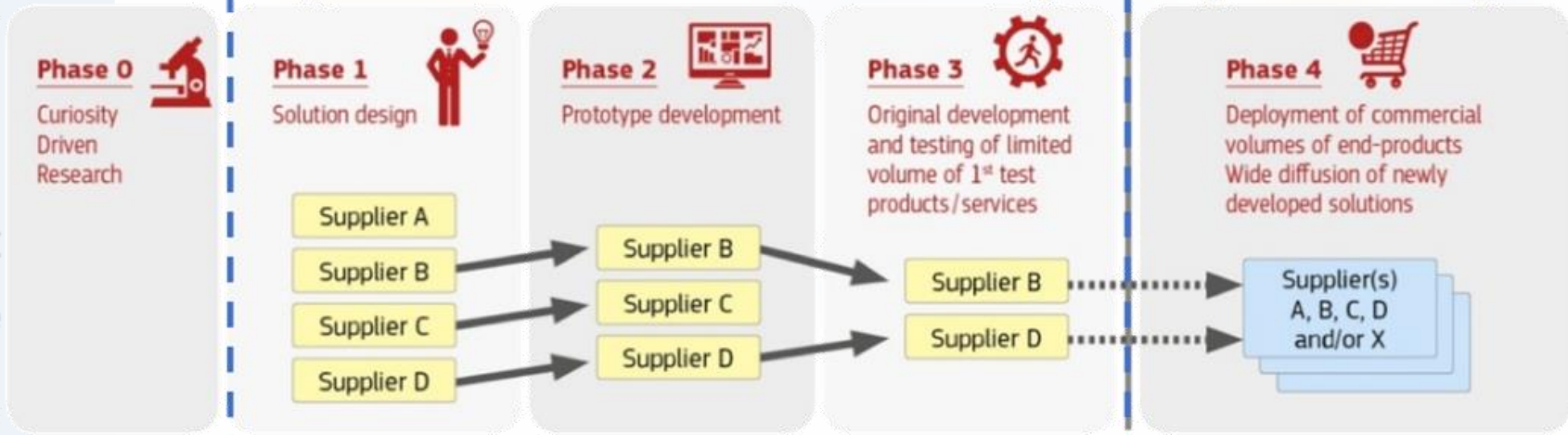


# Roadmap

BroadWay will not just innovate. We will pave the way to put that innovation into live an sustainable use for the benefit of the citizens of Europe. We create a new and competitive eco-system for innovation within and beyond the BroadWay project.

May '18

2021/2022



Pre-Commercial Procurement

An understanding of the need

TRL8

# WE NEED YOU !!

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

A single organisation may cover more than one of these.

**Register:**  
**[www.broadway-info.eu](http://www.broadway-info.eu)**

**Teams are building – network  
well**

## **Open Market Consultation – July to September.**

We asked innovative suppliers their opinion how to deliver this.

**81 People Registered interest**

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**27 Questionnaires Received !**

## **Open Market Consultation – July to September.**

We asked innovative suppliers their opinion how to deliver this.

**We have digested these inputs,  
Our group of procurers have defined more detail of our objectives.  
EC have carried out a Legal review**

**We currently aim to publish our RFT end January '19**

**27 Questionnaires Received !**





**Just to Summarise !**

We will carry out **joint procurement** of innovative solutions to solve our common challenge:

# **Pan-European Mobile Broadband for Public Safety**

**RESPONDER PRACTITIONERS:**  
**Register for 23<sup>rd</sup> January 2019, Brussels**

We will launch a joint Pre-Commercial Procurement towards the end of 2018, with the aim to deliver a TRL8 pilot system by 2021.

**WE NEED YOU !!**

For more information on how to get involved please check:

**REGISTER HERE...**

**[www.broadway-info.eu](http://www.broadway-info.eu)**

**SUPPLIERS:** Request for Tender Estimated Publication – End Jan/Early Feb

- The BroadMap project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No **700380**.
- This BroadWay project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No **786912**.

