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**5G Vertical User Workshop
Profile, Needs and Expectations**

Brussels, 12-13 February 2019

PROFILE – NEEDS – EXPECTATIONS

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PSCE was formed ~10 years ago due to the FP6 NARTUS project recognizing that this dialogue is essential ²

Why are PSCE MRP ?



Mapping and Pre-commercial Procurement of:

Pan-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

Why are PSCE MRP ?

This is why



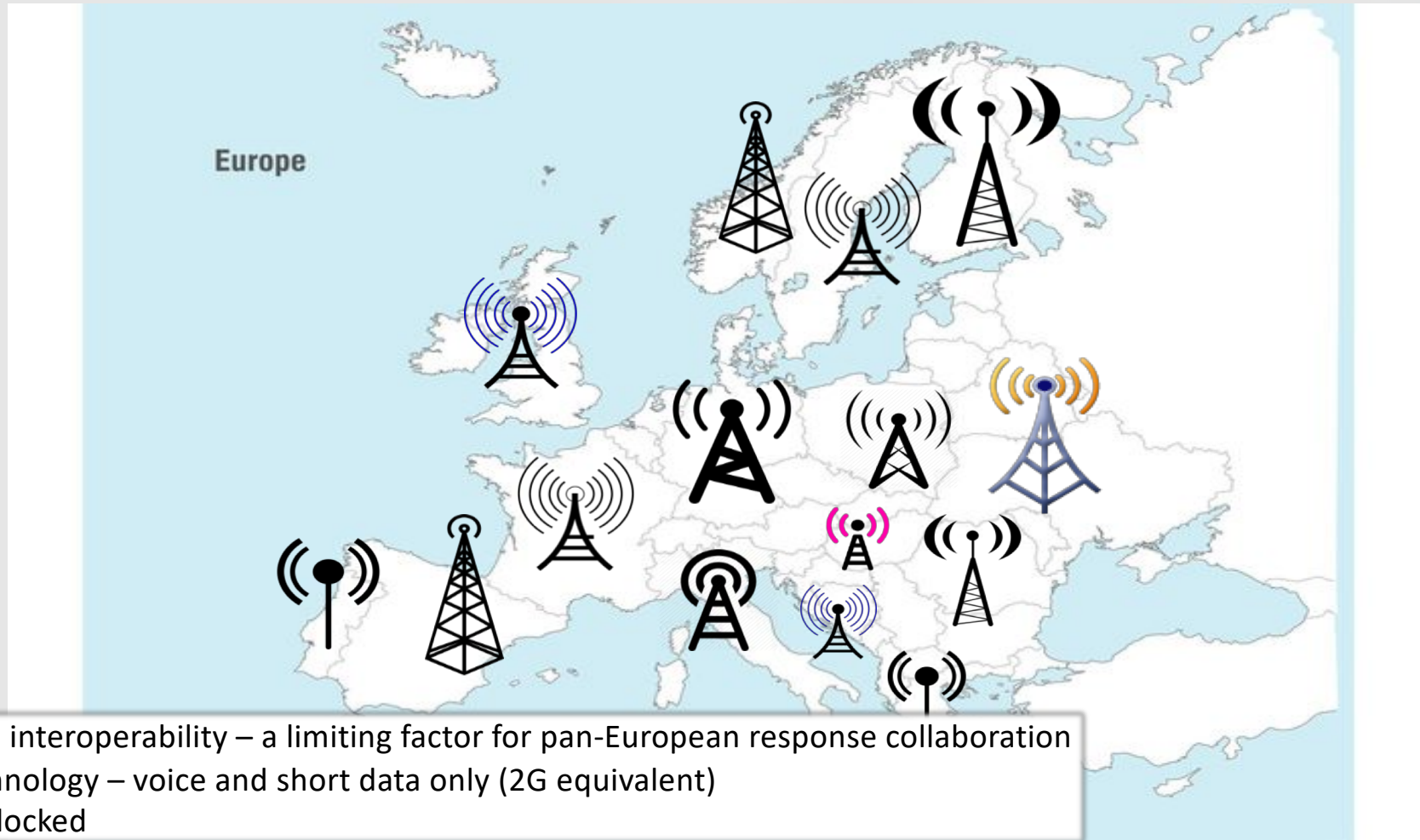
Mapping and Pre-commercial Procurement of:

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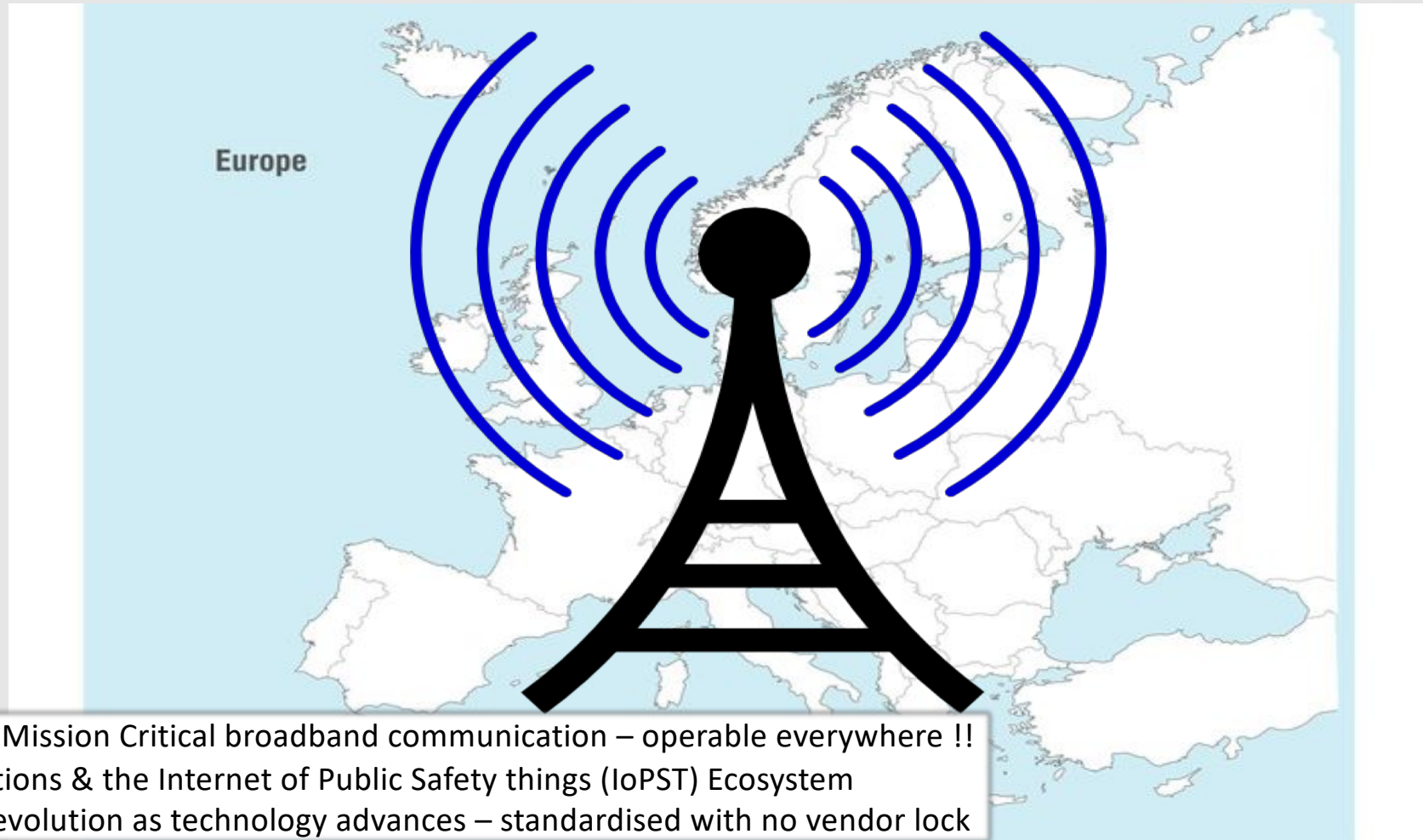
To Enable mobility of responders between different countries

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

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

European Commission > European Civil Protection and Humanitarian Aid Operations > News & stories > News

HOME WHO WE ARE WHAT WE DO WHERE WE WORK PARTNERSHIPS FUNDING & EVALUATIONS RESOURCES

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.

**We have a collective responsibility to make sure that
the Public are kept safe**

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the Public are kept safe**

Everyone in this room has that responsibility !!!

We have a collective responsibility to make sure that
the Public are kept safe

**Technology and information exchange for the good
guys,**

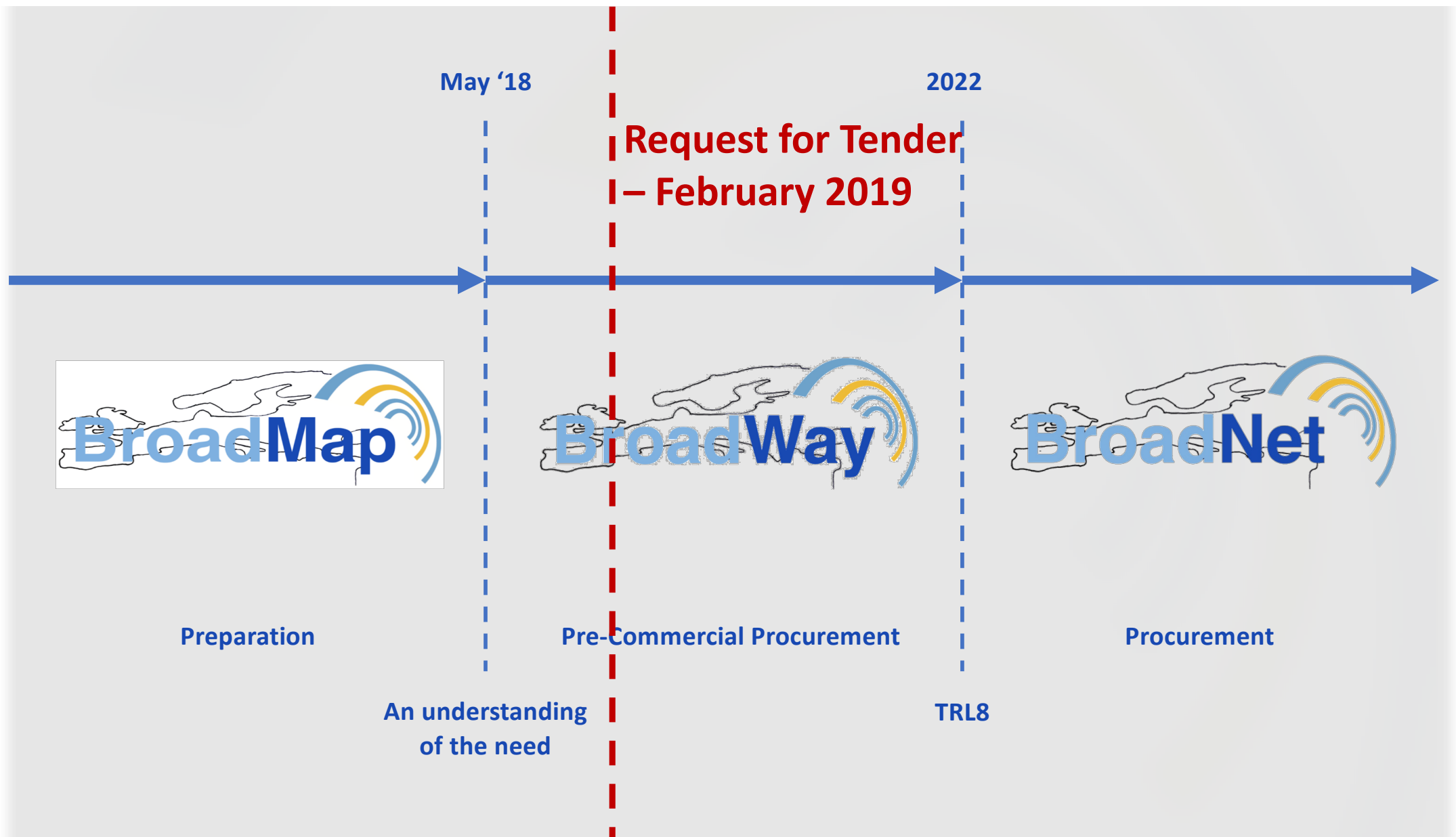
MUST

be more capable and secure than the bad guys !!

We have a collective responsibility to make sure that the
Public are kept safe

Technology and information exchange for the good guys,
MUST
be more capable and secure than the bad guys !!

**And MUST continue work in harsh and compromised
situations**





6 of our team of 11 are represented in this room

Procurement & Evaluation Teams

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

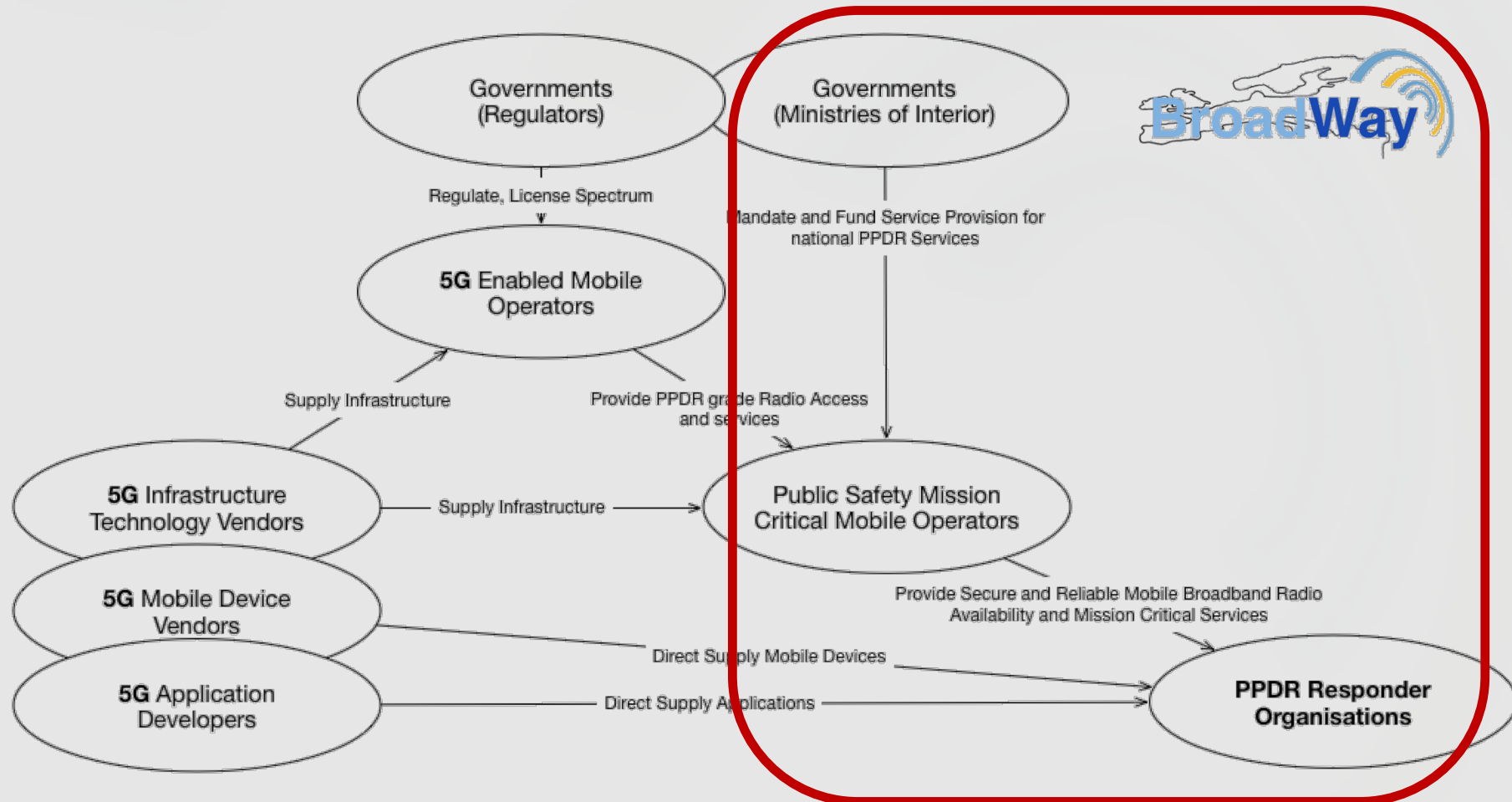
Responders from all disciplines will evaluate this new pan-European capability. User driven requirements, and user driven conformance.



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

**Representing 1.4 Million
responders**

Public Safety Comms Value Chain





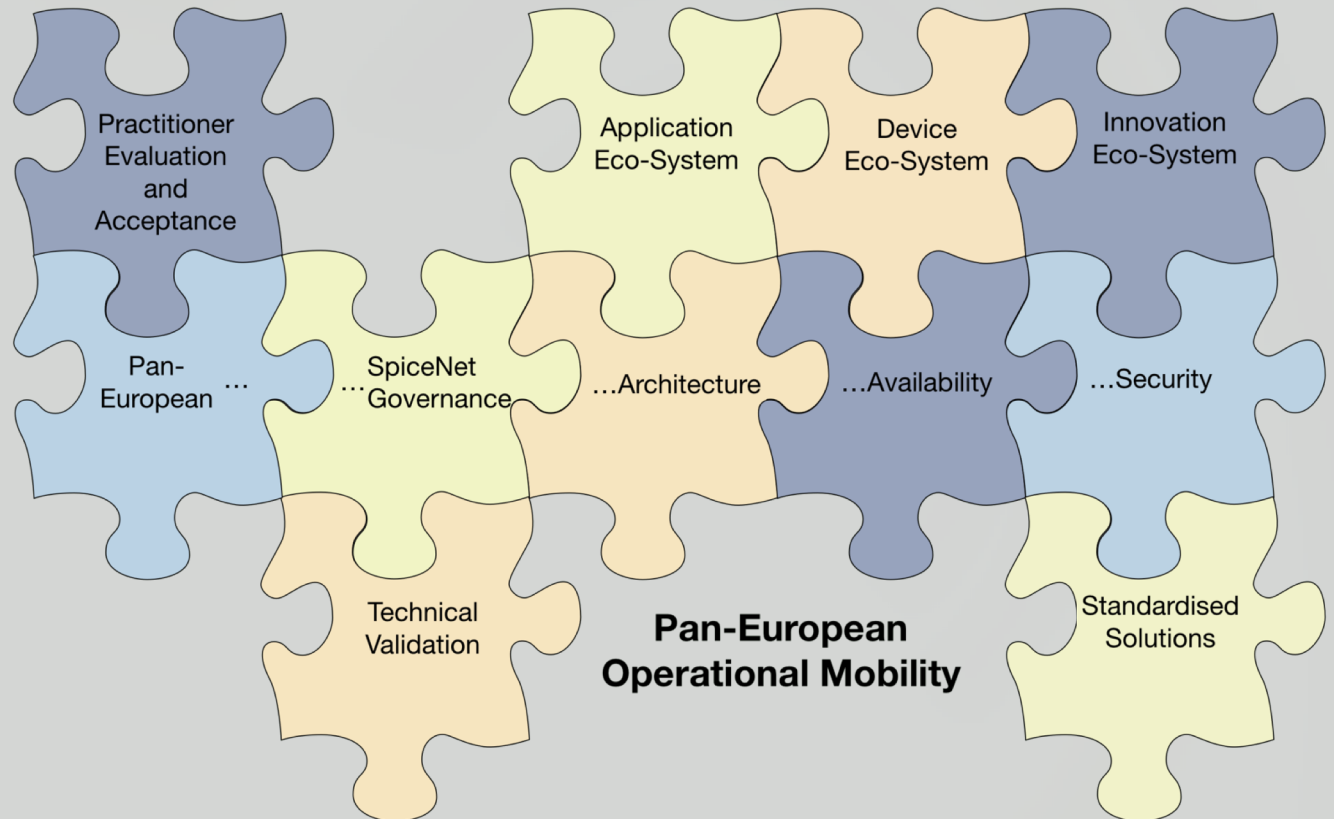
Pan-European



Ambition

BroadWay is ambitious!

Click here to find out
how ambitious we
really are



How do we get involved in 3GPP ?

- MRP Application and acceptance in London PCG/OP – October 2016
- Attend PCG !
 - Remote participation was not ideal but better than not being able to travel
- Attending SA1 and SA6
 - Understanding of the processes, status and direction of travel of the work
- SA1 Gap analysis in BroadMap
 - 2 gaps found - considering 700+ responder level requirements
 - We tried to address. Whilst not explicitly standardised, it borders on being an implementation issue. Then BroadMap ended...
- We support proposals of others when requested, and applicable

Our current participation

- Preparatory phase - Watch and pounce...
 - take time to learn until now, we may need to intervene later to support our goal
- Watching - WG outputs
 - confidence in capability of the mobile standards, now and in the future..
- Watching - ETSI MCX PlugTests...
 - gives us confidence in supply

PROFILE — **NEEDS** — EXPECTATIONS

- We don't care what G it is called?
- Public safety simply need the latest mobile communication !
- It's got to work when needed and has to be better than the bad guys..

PROFILE — **NEEDS** — EXPECTATIONS

- We welcome the status of MC standards today !
- A big thanks to those pioneering the requirements, US FirstNet, UK ESN, South Korea SafeNet, NL, FR, and many others...
- There is no single actor that has brought the standards to this stage, so we're highly grateful to all involved.
- Our programme wouldn't be possible at this time, without it. So thanks again !!

PROFILE — NEEDS — EXPECTATIONS

- A better clarity and common understanding of the MRP role.
- A lot of response from others can be negative – *“that’s how we’ve always done it...”* This can be dissuasive - that’s possibly intentional.
- We still need to understand the value of being an MRP, and whether its more than just a networking and press opportunity...

PROFILE — **NEEDS** — EXPECTATIONS

- We have a team when we need to contribute or react...
 - PSCE – MRP
 - BroadWay buyers team as members of 3GPP
 - We will have contracted suppliers
- We procure innovation which may not be standardised, but
- We won't procure it for a final live system if it's not finally standardised.

PROFILE — **NEEDS** — EXPECTATIONS

- Technical thoughts and considerations ...
 - Applications standards - on top of MC-Data... Broadband data is key to situational awareness, monitoring (body worn, environmental, etc), etc.
 - Can Public Safety sensibly share communication resources with other Industrial verticals. How do the standards and implementations support that ?
 - Integration with other systems where resilience can be improved ? If other verticals have spectrum and deploy their own infrastructure, can public safety share it ?
 - Other areas - e.g. IoT.
 - Our BroadWay programme is primarily about broadband. We also need to follow IoT developments in the same way!

PROFILE – NEEDS – EXPECTATIONS

We are here

- to learn...
- to work with, and to not compete for prowess with other verticals
- to discover where the common goals are

we are all here for mission critical ‘something’ right ?

PROFILE – NEEDS – EXPECTATIONS

Without this dialogue we wouldn't know each other so well, and it could feel like competition if we're not careful

PROFILE – NEEDS – EXPECTATIONS

For all involved – all verticals and industry should respect and support:

- each others needs
 - especially when societal needs become more important than the commercial competition
- procurement cycles
 - public sector are limited at certain times – involvement and communication can be difficult
- alignment with 3GPP release cycles
 - a better two way dialogue between 3GPP<=>Verticals could be beneficial here.



Thanks for listening !!

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