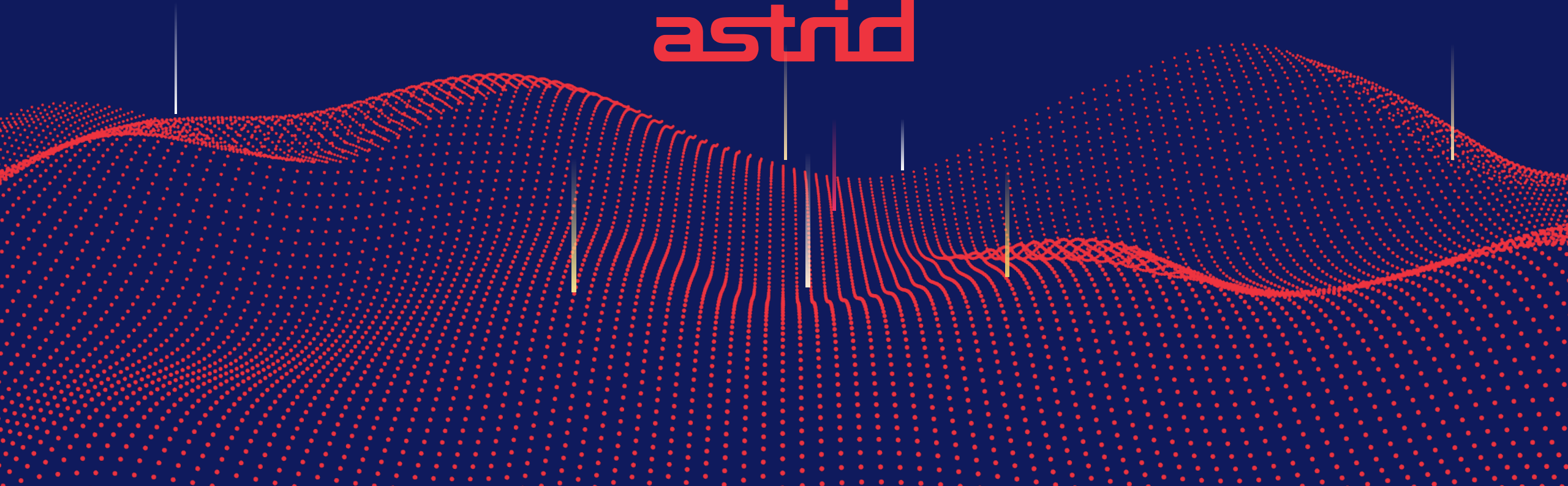




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# Welcome



# **ASTRID Blue Light Mobile BEREC Stakeholder Workshop Network Resilience IRG Secretariat Brussels 19/11/2024**

Jo Dewaele, Marketing Strategy Team Leader



**ASTRID: The national network operator for  
mission critical communications  
for Public Safety and Security Services in Belgium since**

**1998**



# Mission Critical Communications



**Reliability**



**Availability**



**Security**



**Affordable**

# Mission Critical Communications



**Reliability**



**Security**



**Affordable**



**Availability**

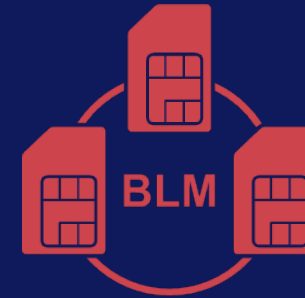
# ASTRID services today



Radiocommunication Network



Paging System



Blue Light Mobile



Emergency centres



Training centre

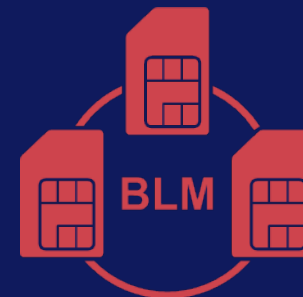
# ASTRID services today



**Radiocommunication Network**  
Dedicated TETRA network



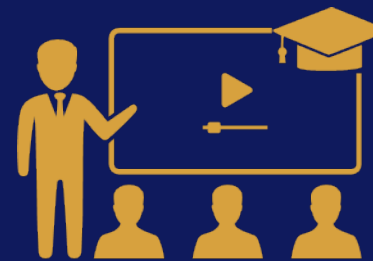
**Paging System**  
Dedicated POCSAG network



**Blue Light Mobile**  
MVNO solution



**Emergency centres**



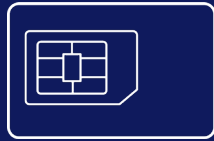
**Training centre**





# Blue Light Mobile

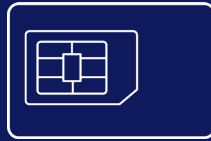




**Launch – BLM 1st generation**

**2014**

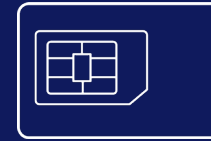
Data-only  
Fast data communication  
Priority access (Proximus)  
(virtual)\* national (data) roaming



**BLM 2nd generation**

**2017**

+ Voice communication  
+priority voice  
+Pre-emption (#6000)  
+ Access Class Barring  
+ International roaming

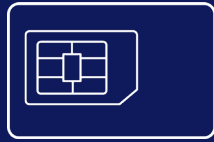


**BLM 3rd generation**

**2022 - Now/end 2024**

(public procurement renewal)  
+ 5G on Proximus  
+ Pre-emption for all on Proximus

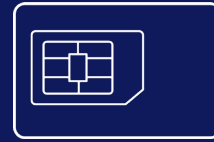
\*International roaming hub: IMSI LUX – MSISDN BEL (no legal framework for national roaming)



**BLM 3rd  
generation**

**Now/start 2025**

+ real\* national roaming  
+ on all (3/4) public (700MHz) MNOs:  
Priority access &  
Pre-emption &  
ACB



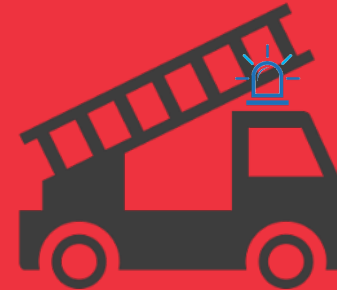
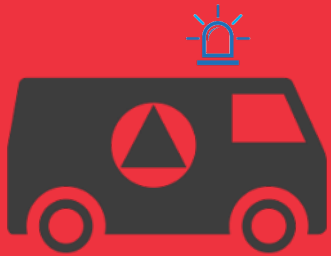
**BLM x  
generation**

**20XY**

+ ?

\*national roaming hub: IMSI BEL – MSISDN BEL (legal framework for national roaming since 2022)

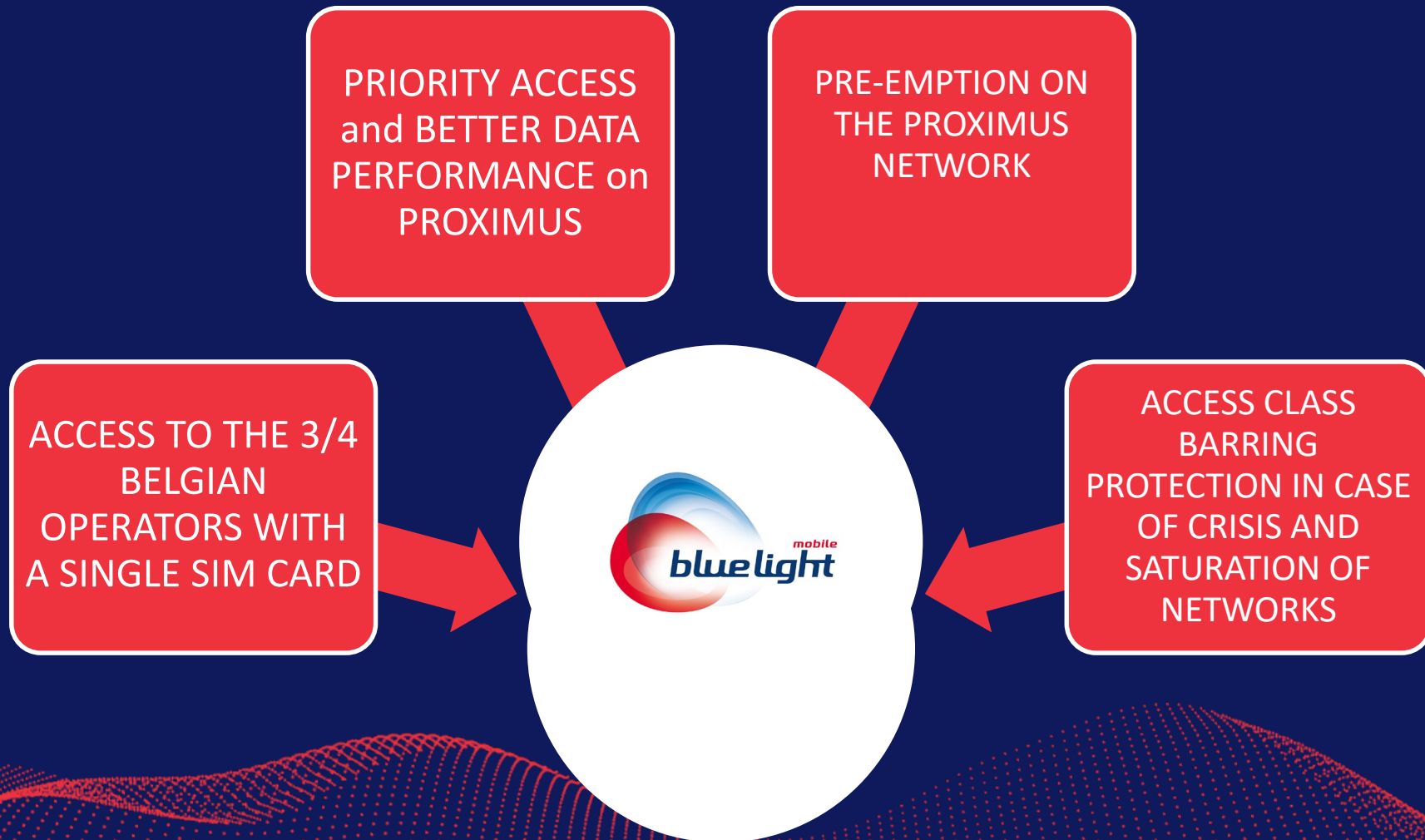
# Priority services



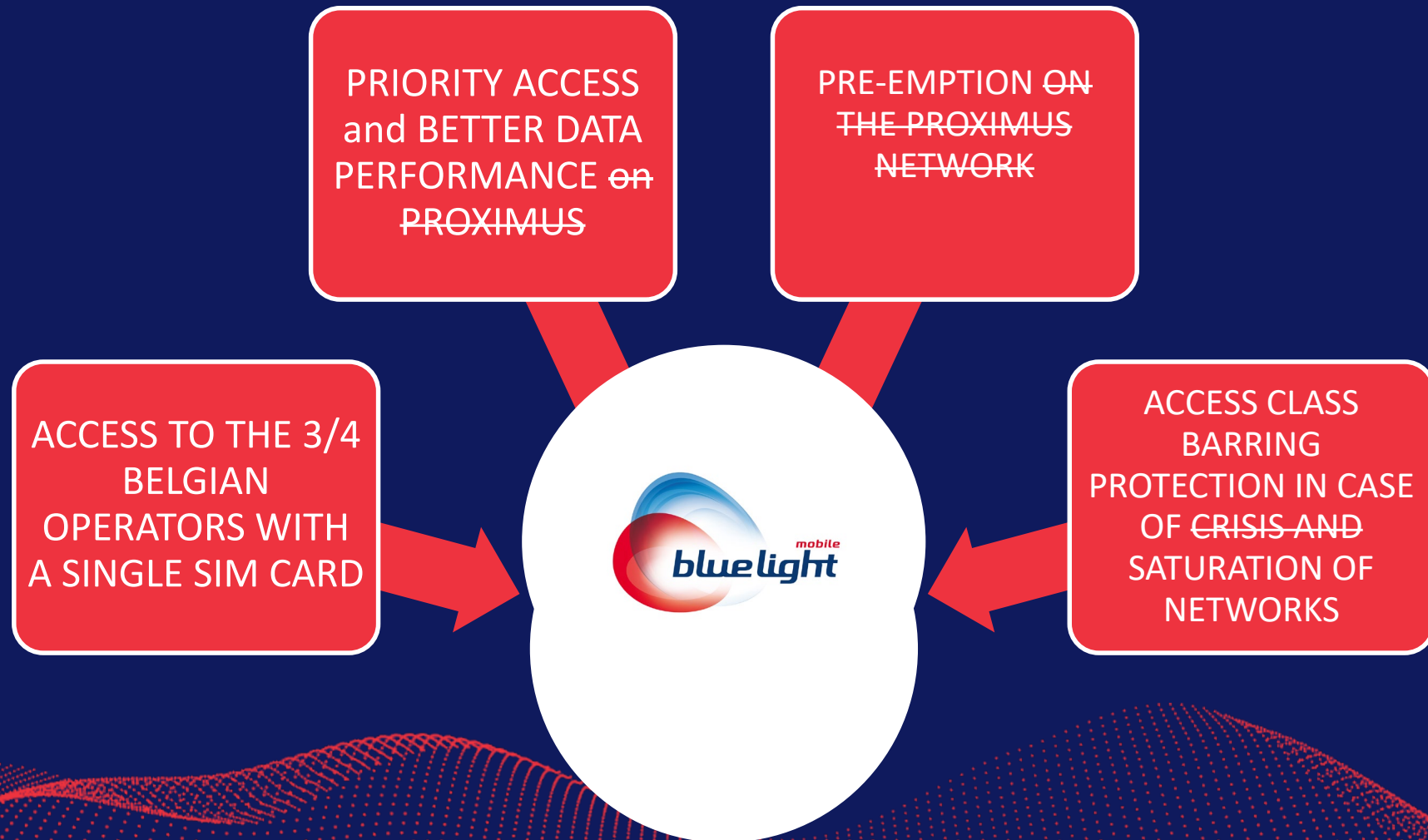
**12 000**

cards in service

# Priority, pre-emption and Access Class Barring



# Priority, pre-emption and Access Class Barring



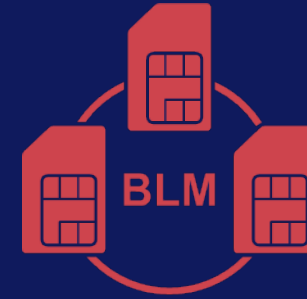
# ASTRID services today



**Radiocommunication Network**  
Dedicated TETRA network



**Paging System**  
Dedicated POCSAG network



**Blue Light Mobile**  
MVNO solution

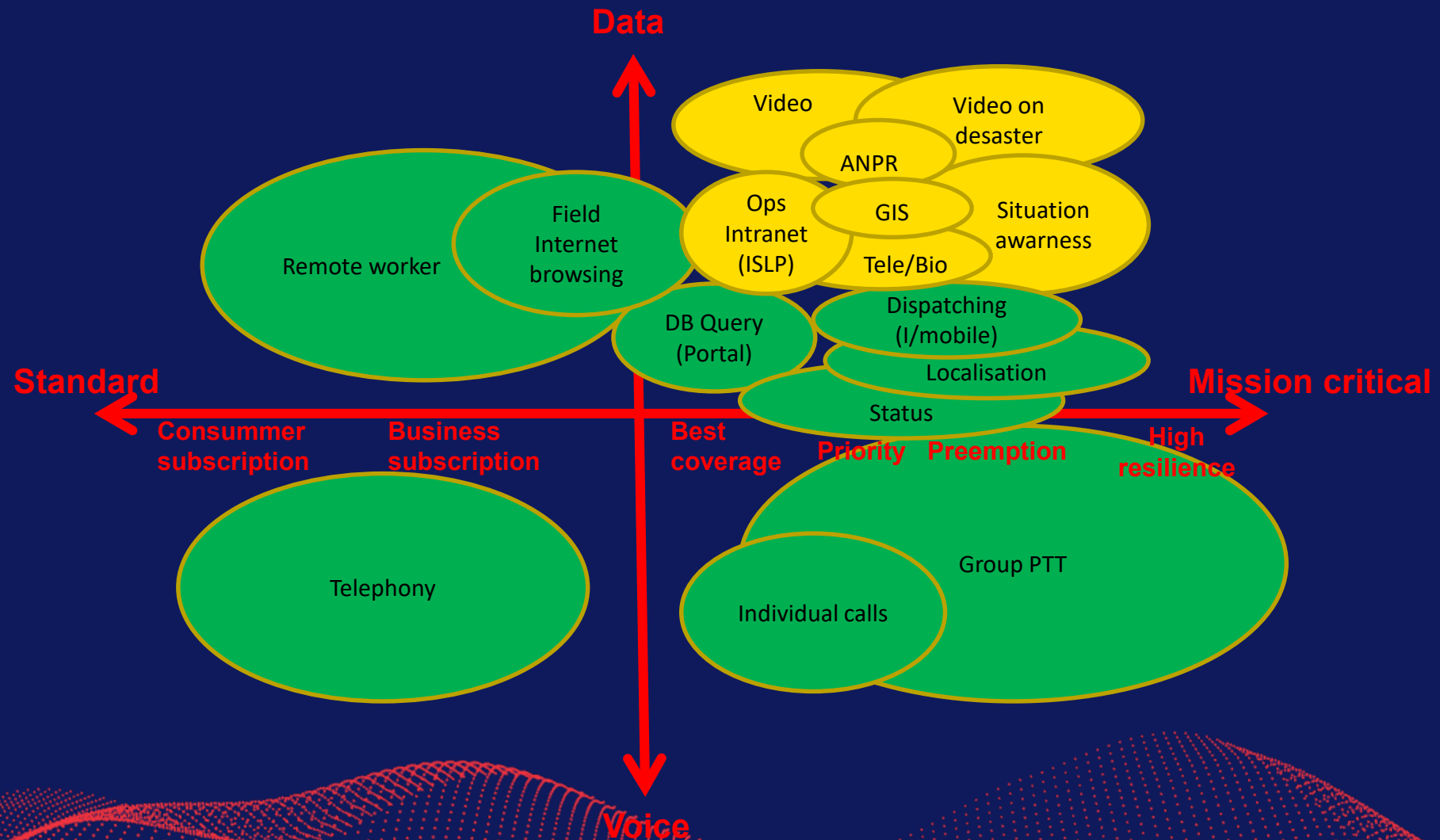


**Emergency centres**



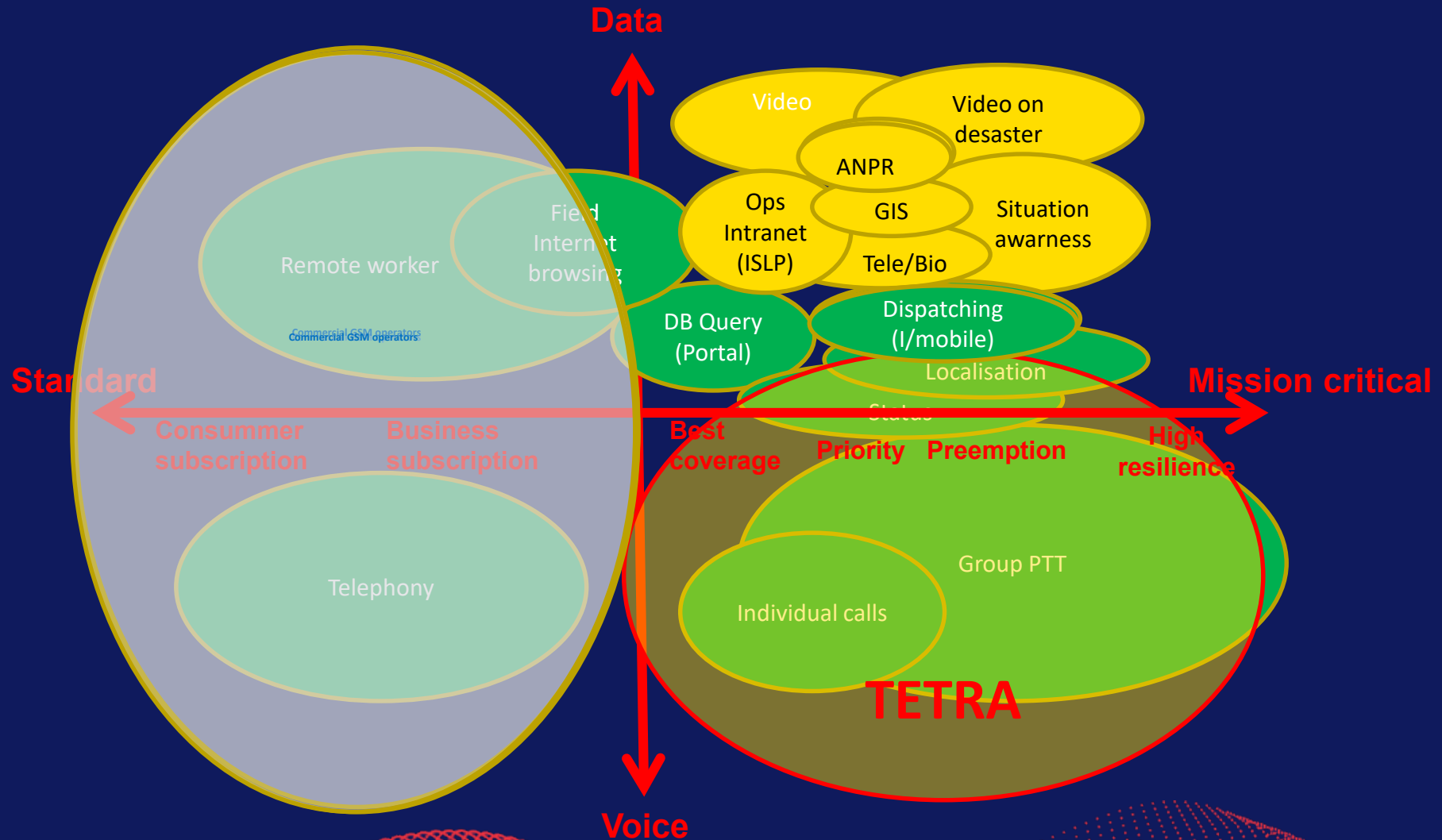
**Training centre**

# Evolution towards "Mission Critical" Data (and Voice)

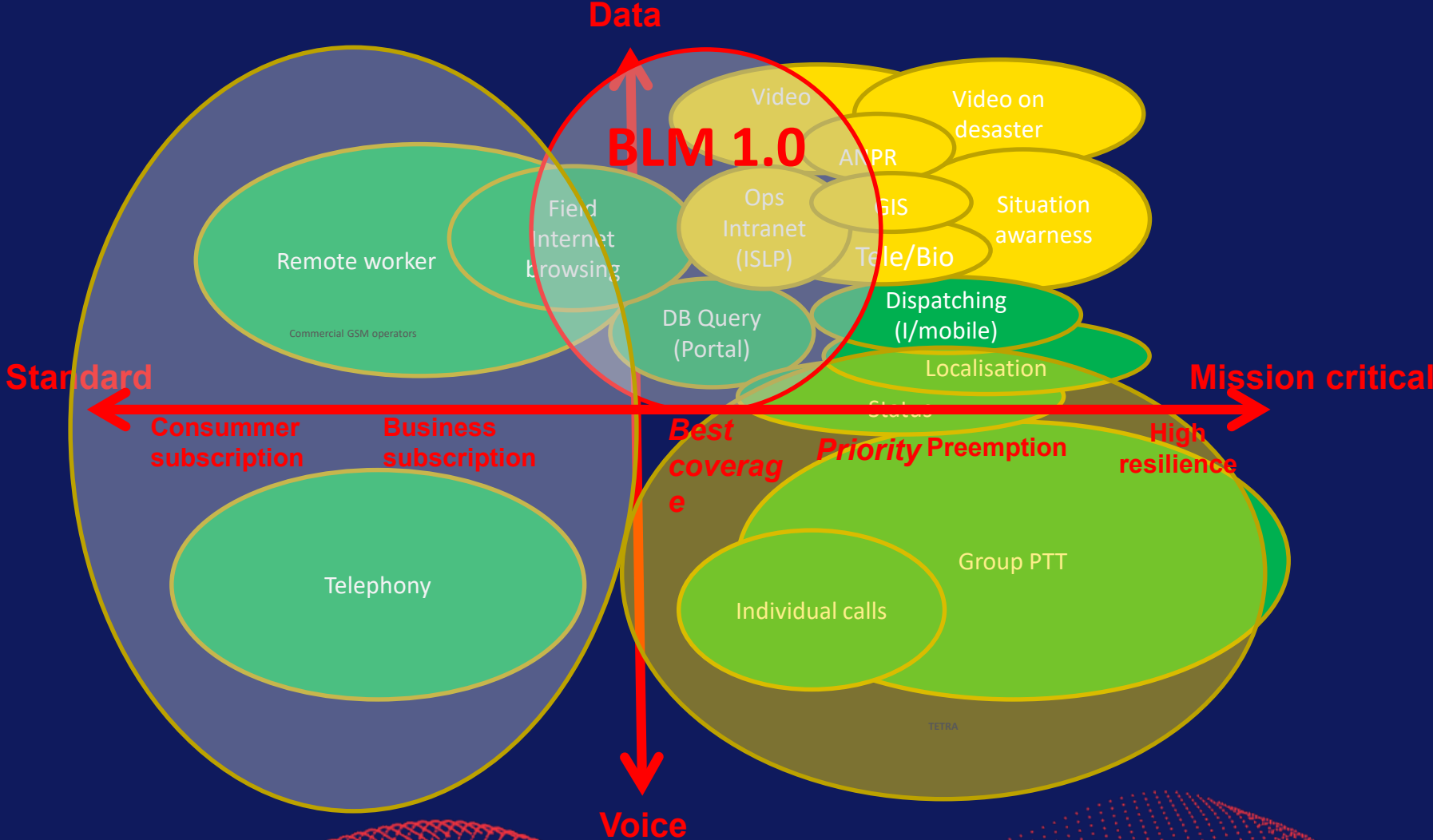




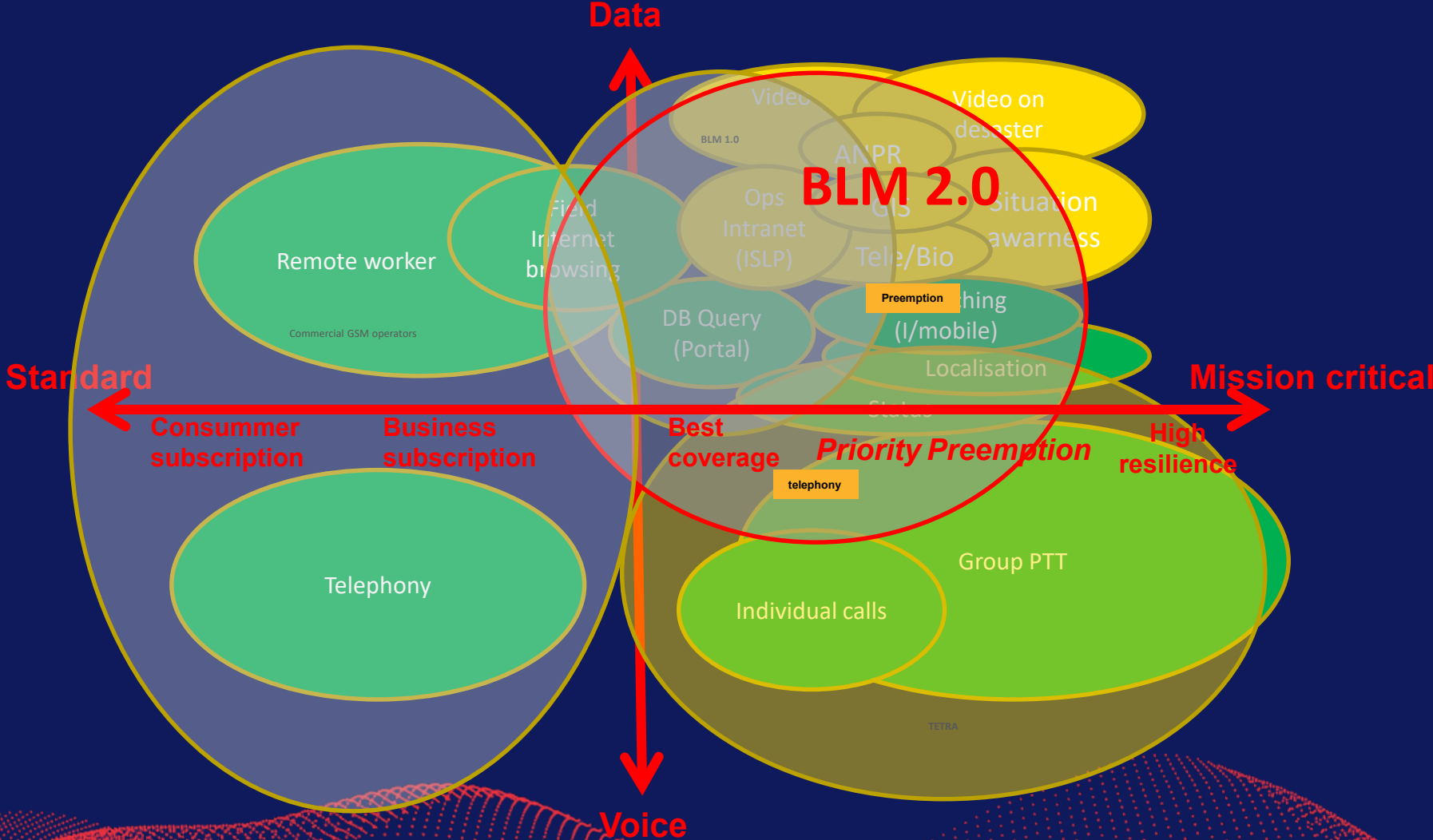
# TETRA Service Domain



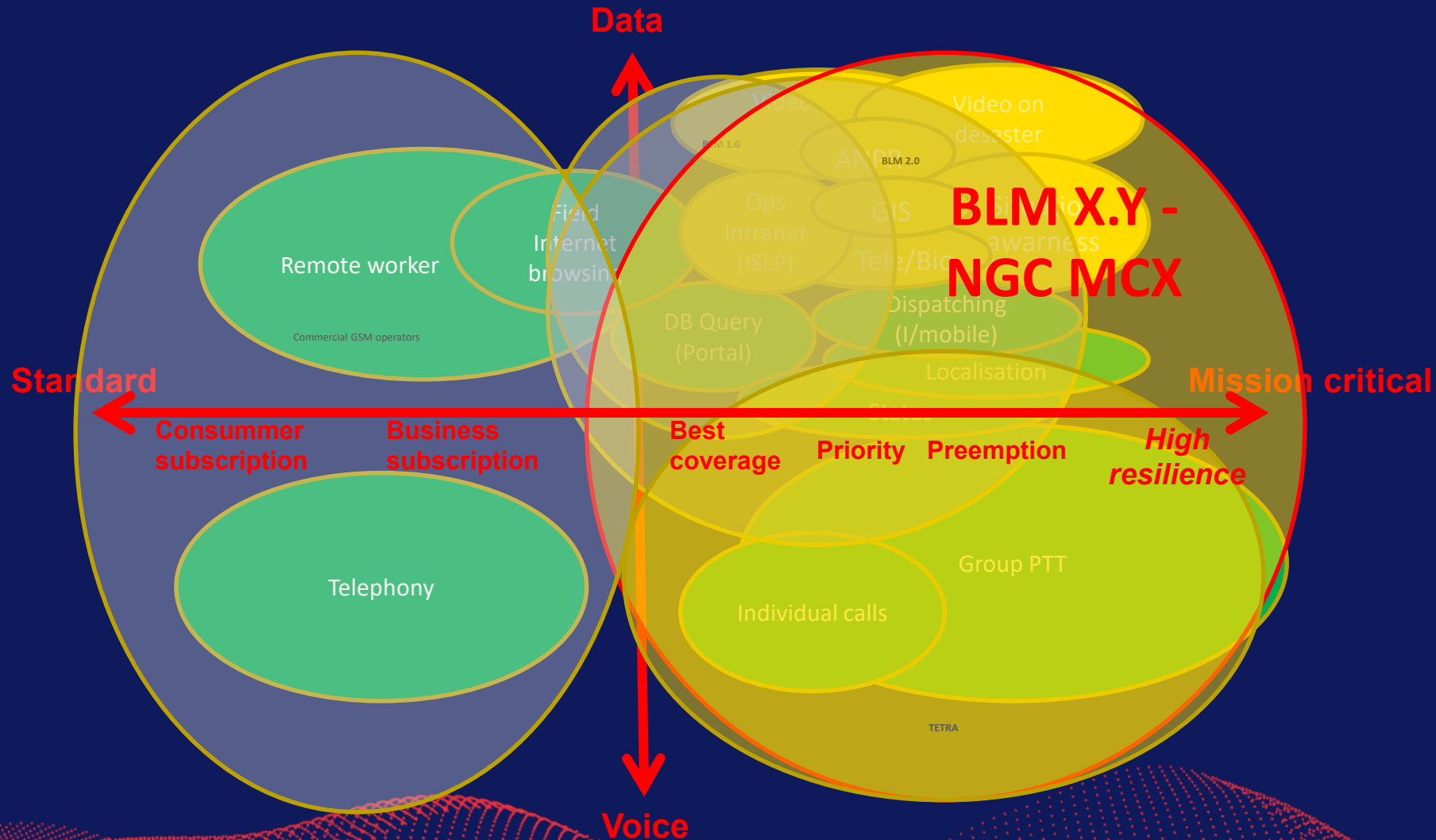
# BLM 1.0 Service Domain



# BLM 2.0 Service Domain



# Long Term : BLM X.Y – NGC MCX (convergence)



# Mission Critical ecosystem



## APPLICATIONS

Group discussions  
Push-to-Talk  
Video & Data  
Fast call set-up  
etc.



## NETWORK

Availability  
Confidentiality  
Reliability  
etc.



## TERMINALS

PTT button  
DMO  
Robust  
etc.

**The solutions must support Mission Critical operations.**

## ASTRID Mobile Communication Solutions

Mission Critical

Based on User Operational Requirements

"Safety Critical"

Hybrid Solution

Light MVNO Model

Dedicated Network (MCRAN)  
MNO Partnership (MOCN)

Blue Light Mobile Enhanced  
(2025 +)



### Focus on Mission Critical requirements

- Handover MCRAN - MOCN
- QPP
- Continuity of service
- Security, Confidentiality & Souverainity
- Integrated MCx
- Limited & Control on devices

### Focus on Flexibility

- National Roaming (3 MNO's)
- QPP
- Flexibility (BYOD)
- Voice Telco added value services
- Limited Security, souverainity
- Limited Continuity of Service

@reallygreatsite

# Mission Critical Network Resilience

- **Power (electricity) continuity – autonomy**  
(12 – 24 hours – 1 week - ...) => no public MNOs?
- **Connectivity continuity**  
(12 – 24 hours – 1 week - ...) => no (public) internet?
- **ICT service continuity & sovereignty**
  - No (public) cloud services?
  - No non-EU suppliers?



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