

**ALSTOM**

**FREQUENTIS**

**funkwerk** )))

**ISKRATEL**

*kapsch* >>>

 **LEONARDO**

**NOKIA**

**SIEMENS**

  
triorail

 **WENZEL**  
ELECTRONIC SYSTEMS



**3<sup>rd</sup> world Conference on Rail  
Transport Telecoms**

**Inter-domain  
convergence of digital  
communication**

**Markus Myslivec**  
Head of PT Solutions  
Frequentis AG

Paris UIC HQ

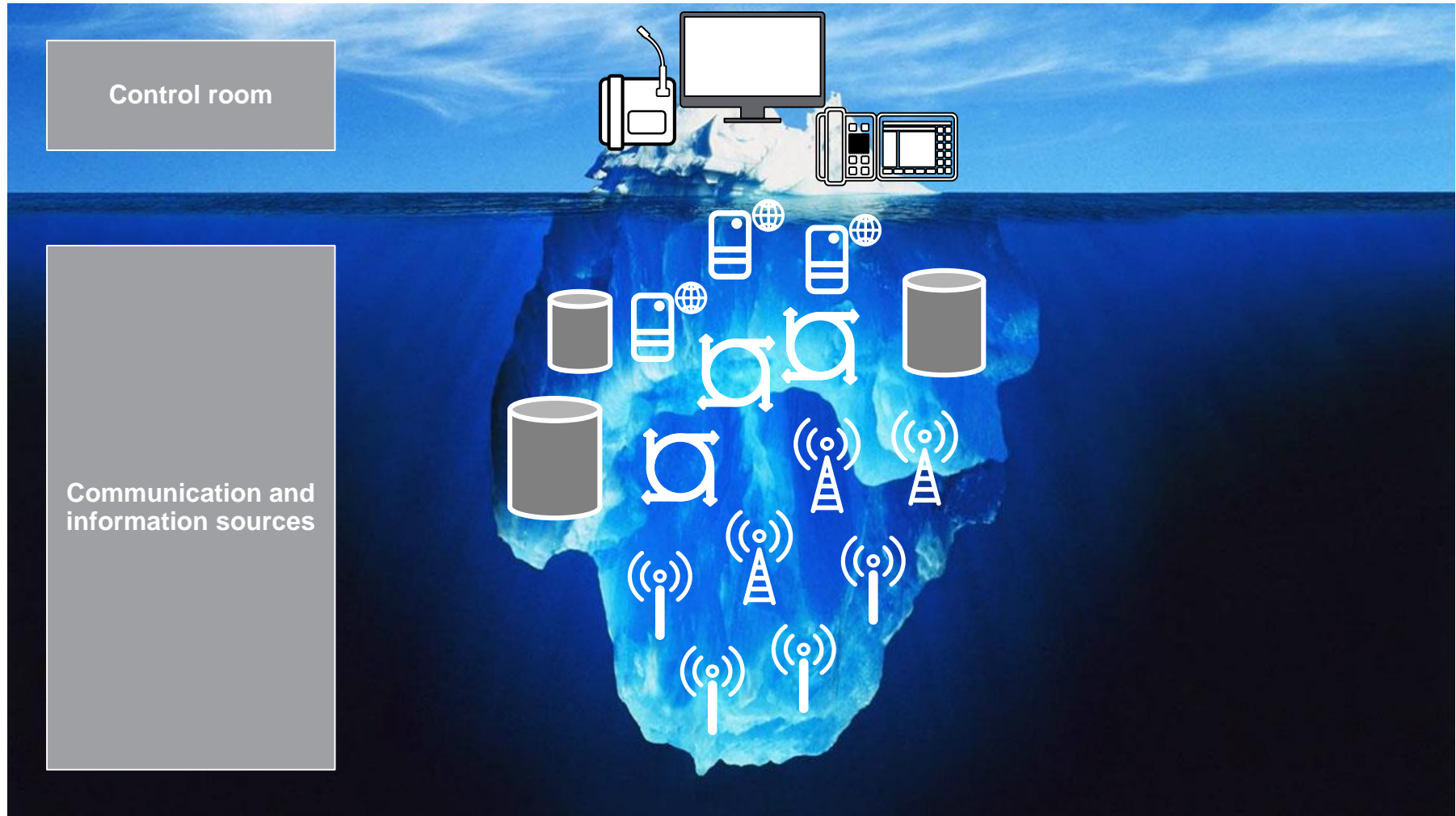
17<sup>th</sup>/18<sup>th</sup> of May 2017

**Ensuring an interoperable transition**

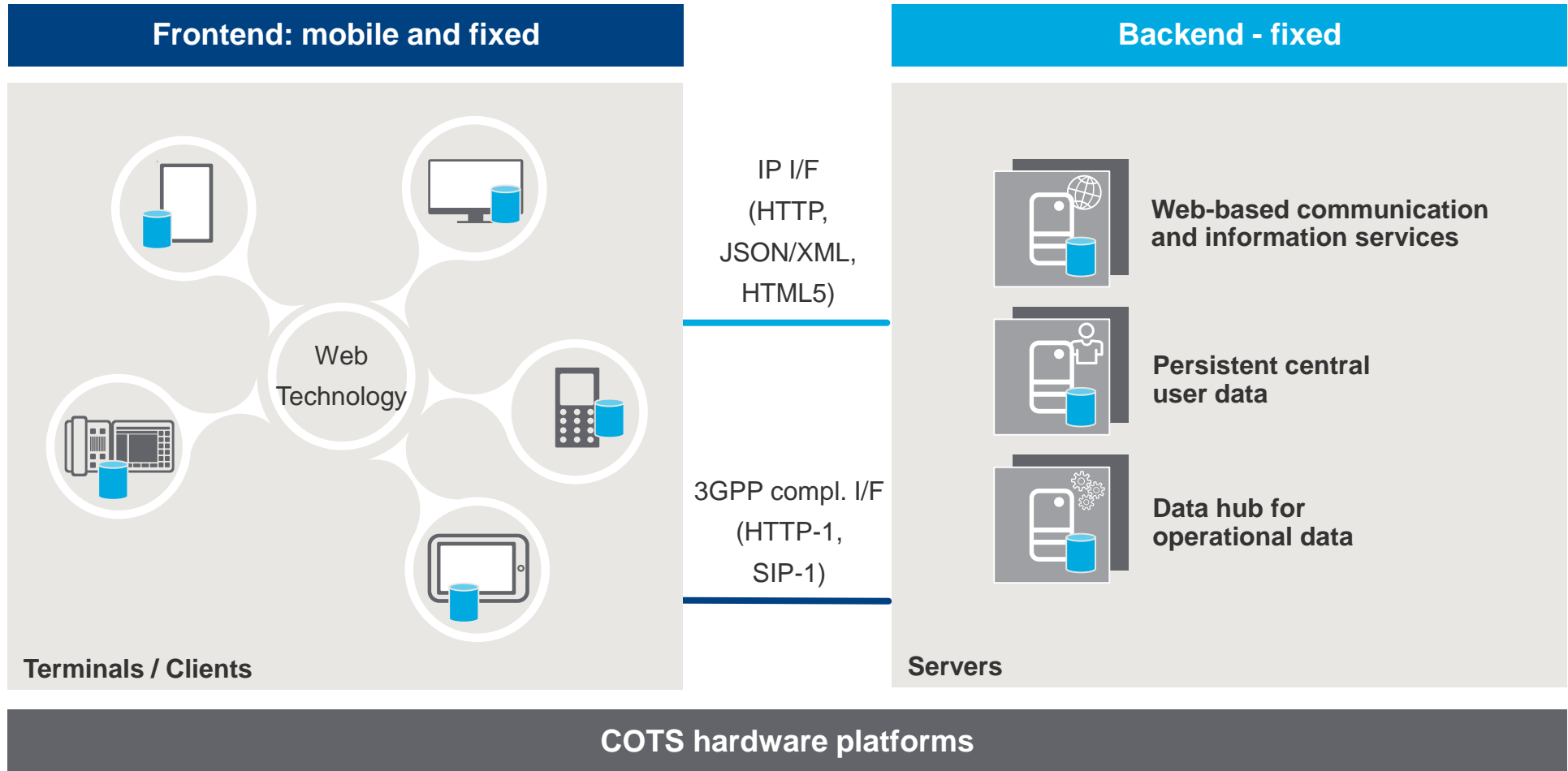
# A typical control room ... of which domain?



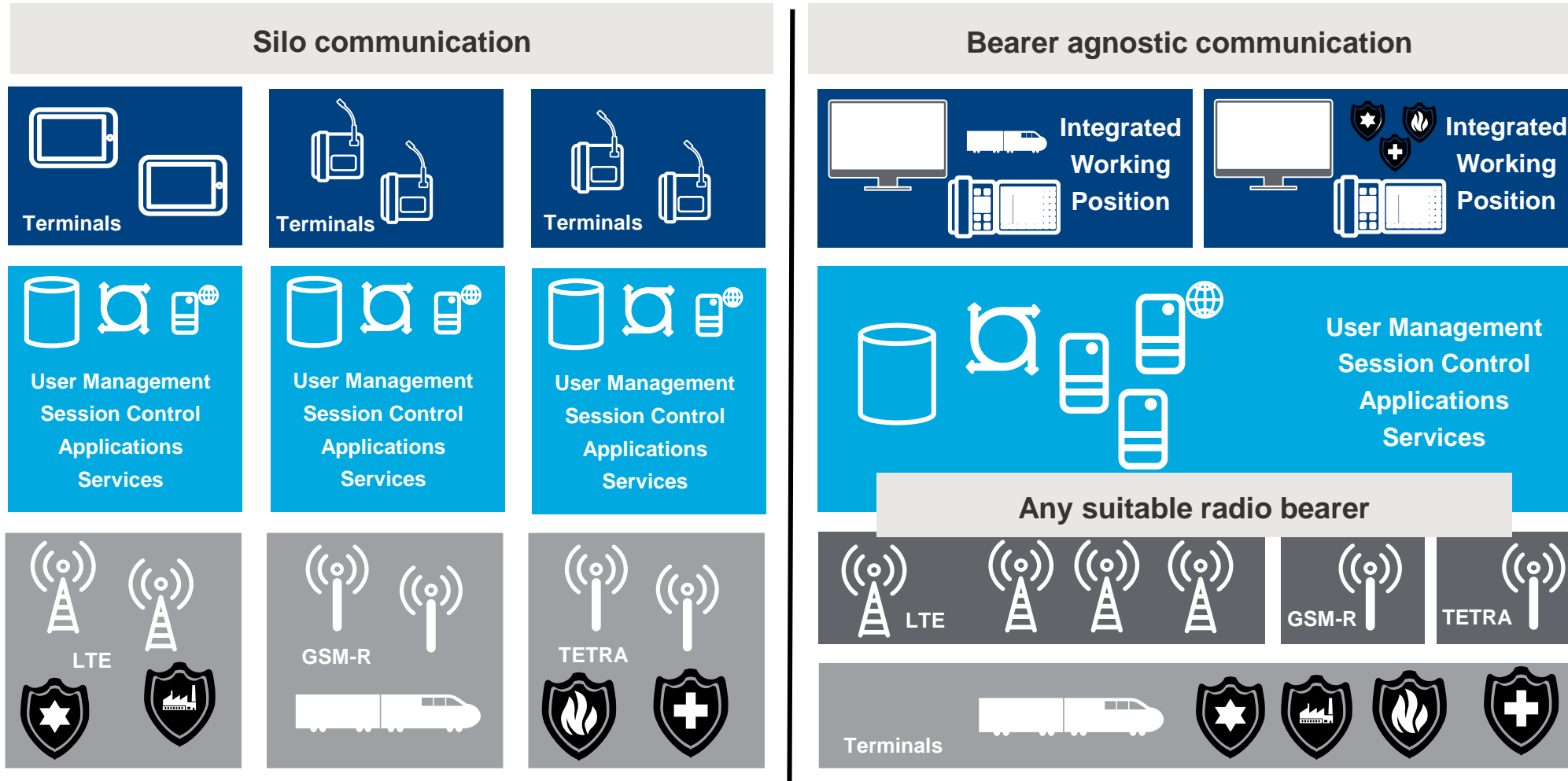
# The iceberg dogma at a control room



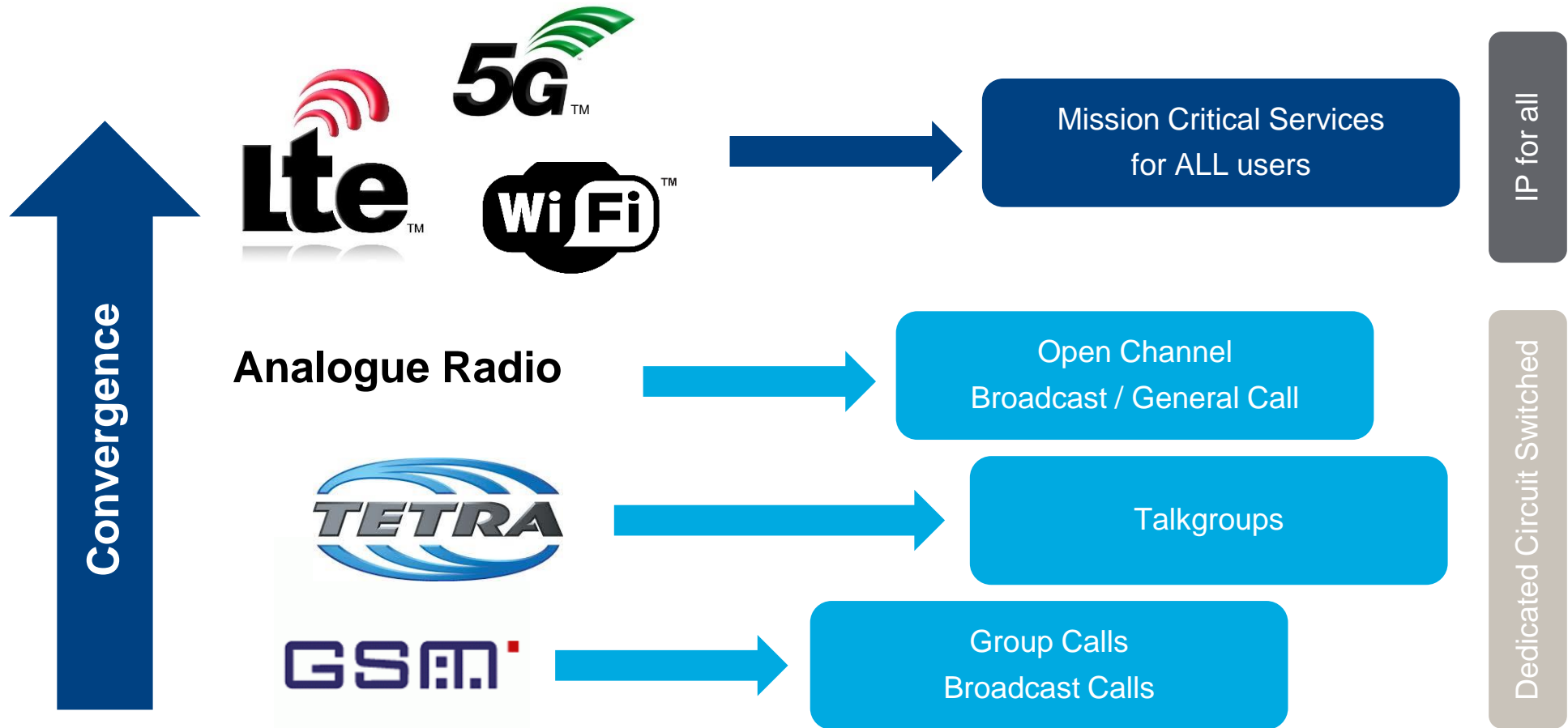
# Convergent client/server terminal architecture



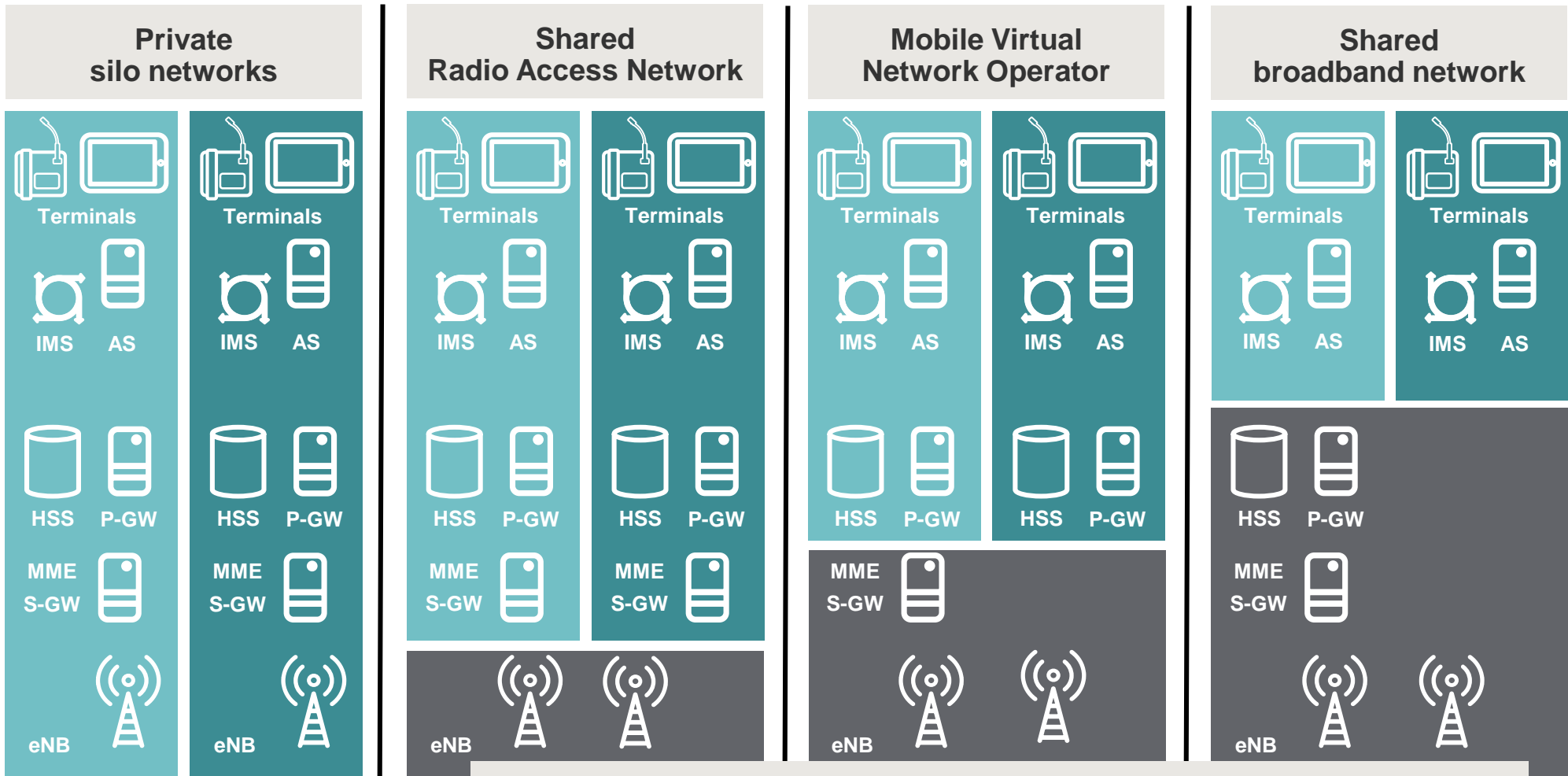
# Converged bearer agnostic network architecture



# Convergent applications & services



# Sharing principles – network deployment models



Any suitable radio bearer

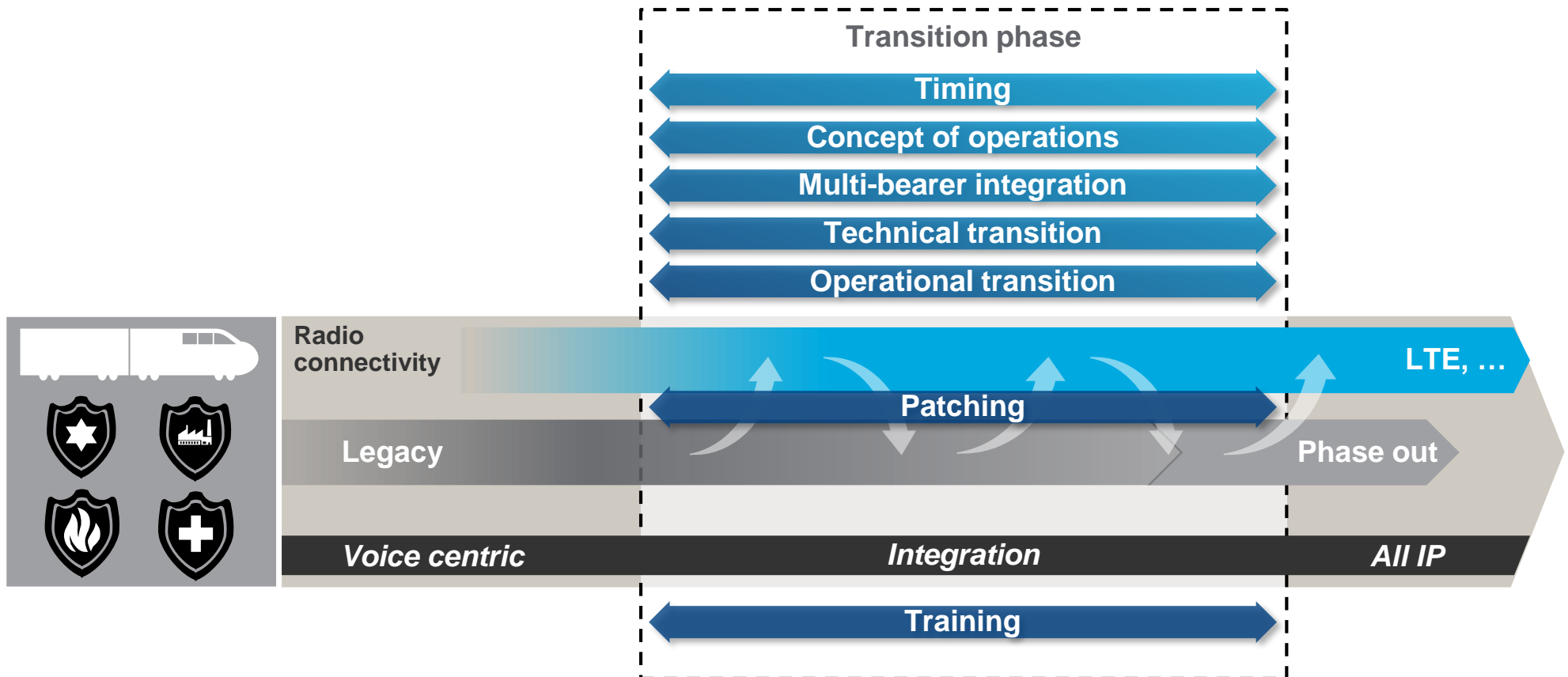
# Benefits & challenges of inter-domain convergence

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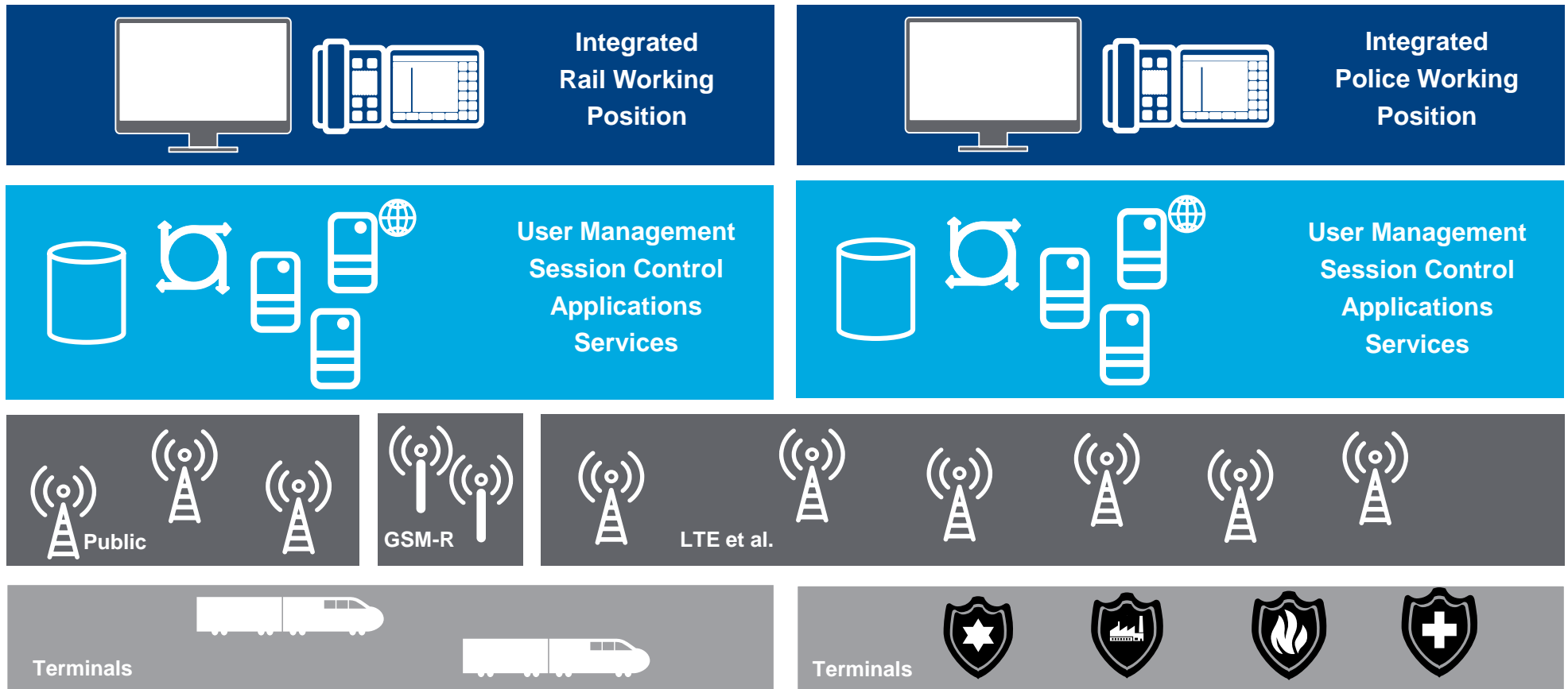
- Benefits
  - Optimised, yet lower, CAPEX and OPEX
    - Shared infrastructure
    - Shared technology
    - Shared spectrum
  - More efficient use of bearer capacity
  - Easier change of network parts to follow technological evolution
- Challenges
  - User separation
  - Security
  - Quality-of-Service



# Transition required in all domains



# Outlook on implementation scenario ... discussing



# Conclusion

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- Transition from legacy to next generation is a common topic in all vertical markets  
... accept it.
- Convergence happens in multiple domains on multiple levels  
... consider it.
- Any suitable radio bearer can provide access  
... think about it.
- Inter-domain experience with focus on convergence and transition is there  
... use it.

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**On track!**

**Thank you**

**Ensuring an interoperable transition**