



DEFENCE AND SPACE

# Comunicazioni radio per la sicurezza

## Evoluzione delle reti mission critical

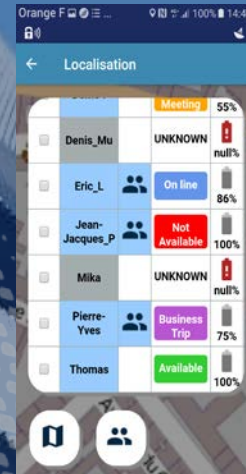
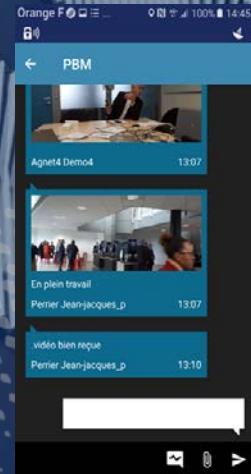
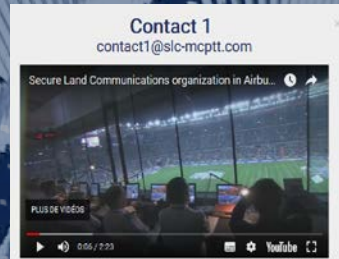
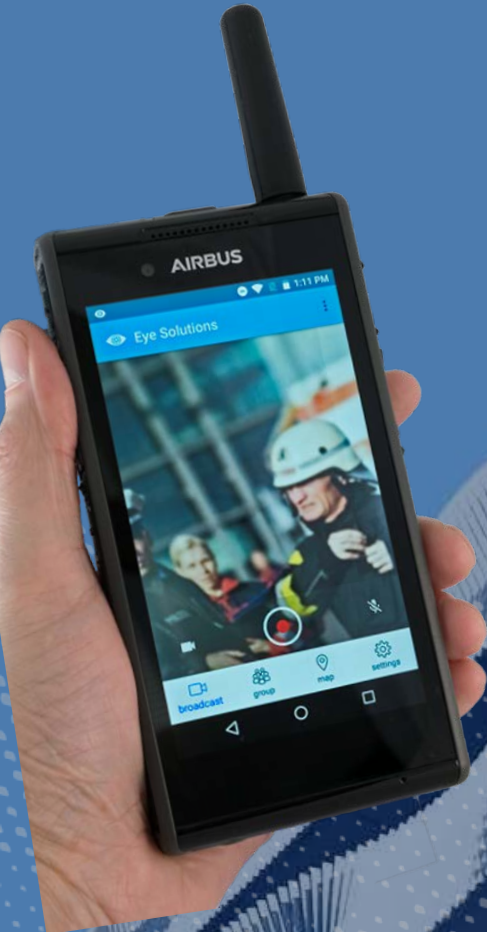
**Lionello Ginelli**

Politecnico di Milano 16 Aprile 2018

**AIRBUS**

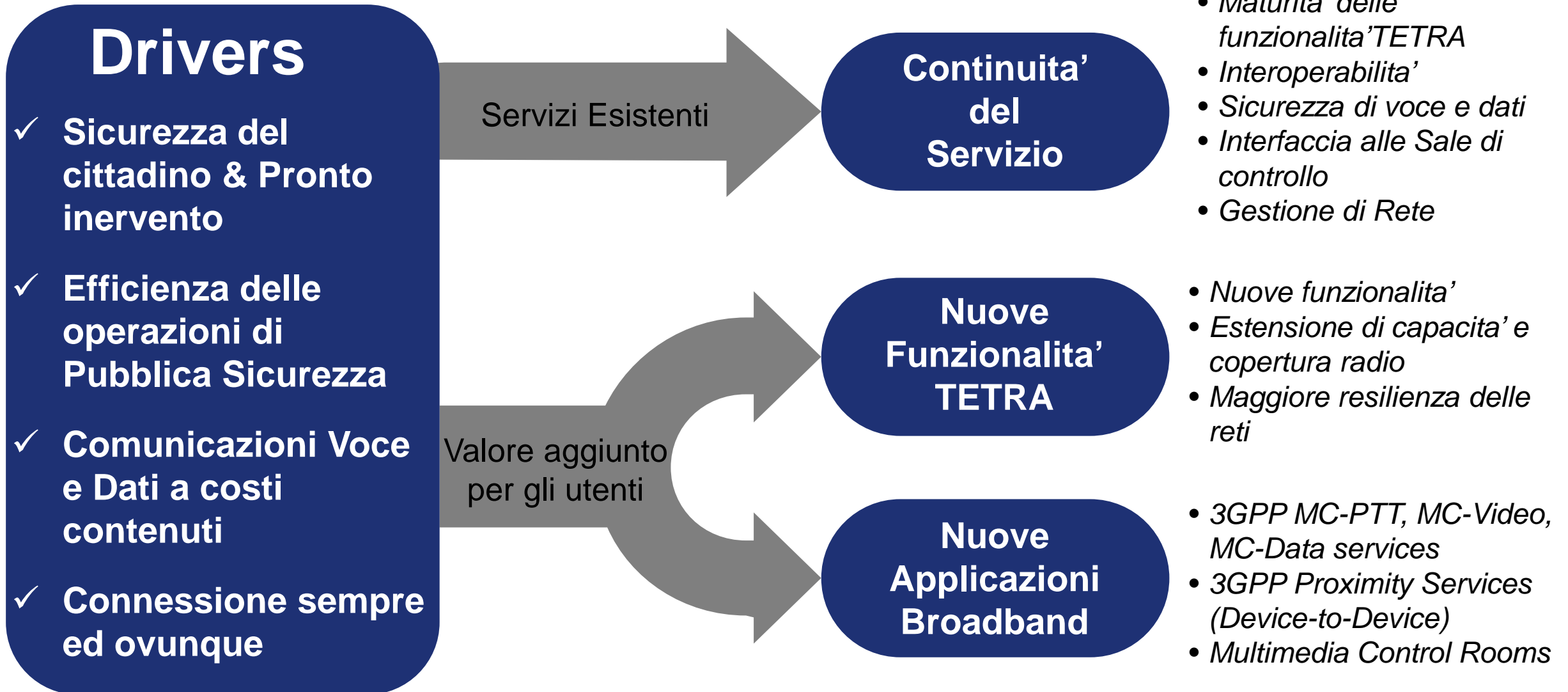
PMR e ICT da sempre alla  
ricerca di sinergie

Nell'attuale scenario  
tecnologico stanno  
convergenndo  
nell'ecosistema di  
"Critical Collaboration" di  
prossima generazione



AIRBUS

# Evoluzione dei requisiti Mission Critical per la Pubblica Sicurezza





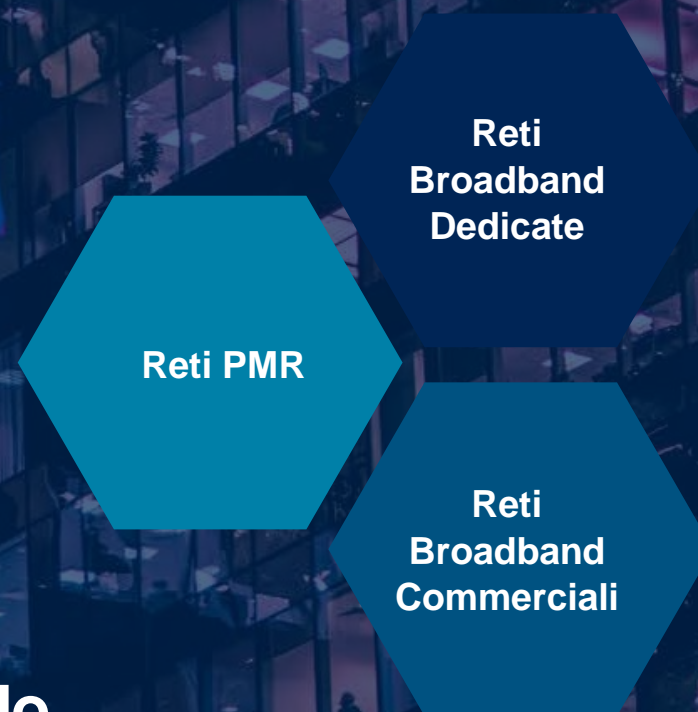
# **Il “Business critical” e la migrazione verso i “Collaboration Services” su reti 4G/5G**

- **Comunicazioni voce “Mission Critical” legate ai sistemi TETRA/Tetrapol in ammodernamento per almeno i prossimi 10-15 anni**
- **Servizi dati introdotti gradualmente dalle reti 4G/5G sulla base di accordi specifici e attraverso reti e dispositivi ibridi**



**Le Soluzioni Ibride offrono una transizione morbida verso il “Mission critical broadband”.**

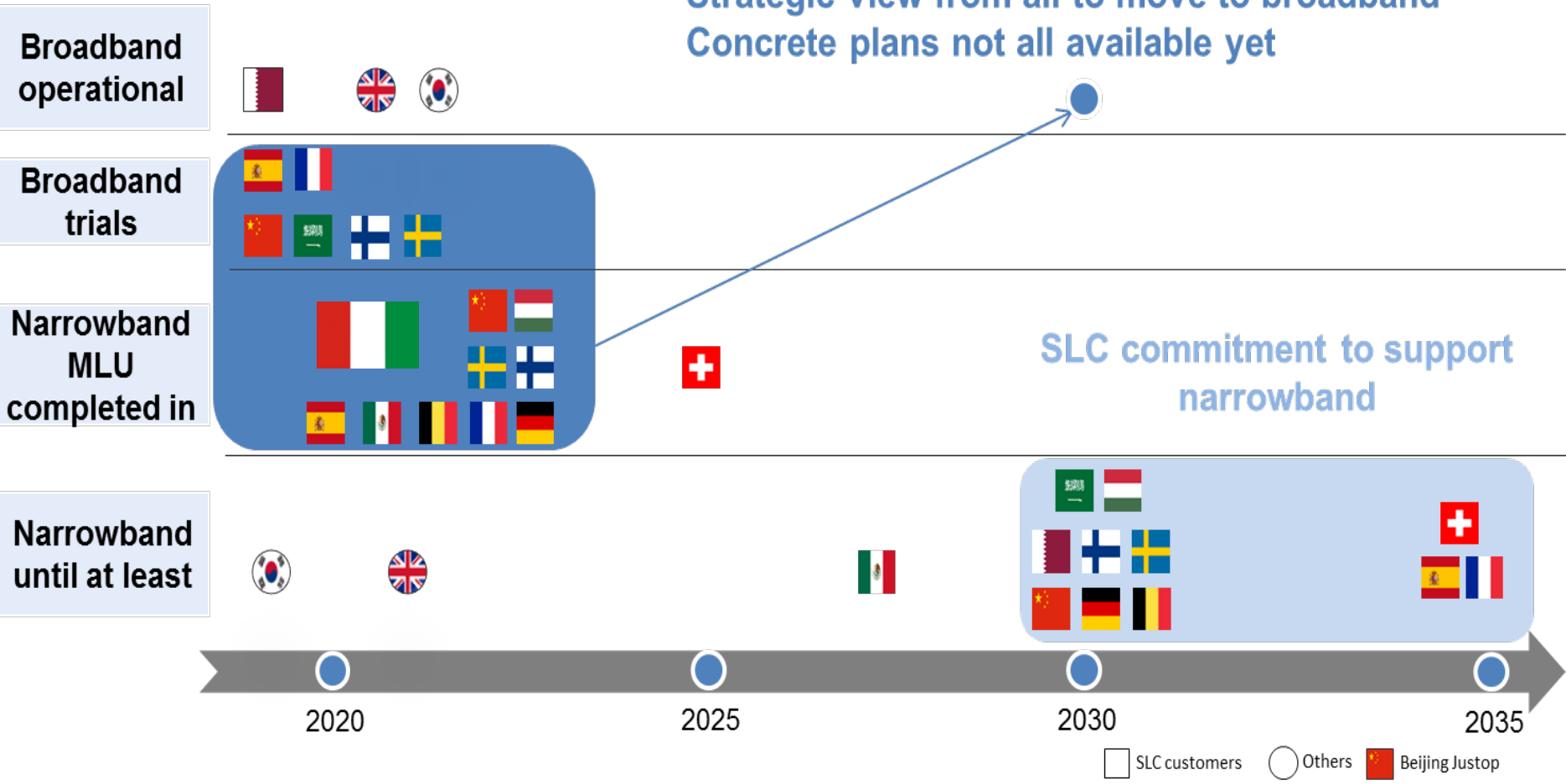
**Con la combinazione tra PMR e mobile broadband, il modello ibrido si adatta ai bisogni delle organizzazioni, ottimizza la migrazione attraverso implementazioni graduali**



# Piani di sviluppo degli operatori della Pubblica Sicurezza

Strategic view from all to move to broadband  
Concrete plans not all available yet

SLC commitment to support narrowband



## Key Takeaways...

- Most major TETRA and TETRAPOL customers have confirmed narrow-band systems use until 2030-2035
- Mid-Life upgrades engaged to secure narrowband systems use for another 13 – 18 years
- Broadband solutions introduced step by step:
  - First driver: non mission critical use of data for operational efficiency
  - Long term driver: convergence towards broadband



# Tactilon® Agnet e' parte essenziale delle soluzioni di Critical Collaboration







## Una Soluzione, due mercati

### Mission critical


- Strictly controlled and managed
- Attention to user group management
  - High-quality voice
  - Dedicated virtual networks
- Highly secured solutions for devices and apps
  - Devices with special needs and extending the user groups with
    - Off-the-shelf smartphones



### Business critical

- Easy-to-use smart devices and accessories
  - Mostly off-the-shelf smartphones
  - Connection over the public internet
- Possibility for apps utilizing user groups





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