



# How Public Safety Agencies Optimised Critical Comms During the Paris Olympics

### Presented By Brad Welch - General Manager TPL Systems Asia Pacific



# Reseau Radio du Futur (RRF)

- Designed to replace existing radio networks from 2025
- Fully implemented by 2027
- Uses existing commercial Infrastructure- Orange, Bouygues
- Uses 4G, 5G with Radio Capabilities in 700Mhz



# Reseau Radio du Futur (RRF)

- Designed to replace existing radio networks from 2025
- Police Radio- ACROPOL
- Gendarmerie Radio RUBIS
- Fire Brigade Radio Antares



# Reseau Radio du Futur (RRF)

- Existing Radio Networks based on TETRAPOL
- Originally Developed by Airbus Space and Defence in the 90's
- Considered end of life
- Original Budget 700 million Euros, Likely cost 2 Billion euros



# **Leading into Paris Olympics**

- Police and Gendarmerie directed to utilise RRF
- Combined 30,000 users



# Hurdles to overcome

- Users not confident in MCPTT only network
- Accessing screen locked smart phones problematic
- MCPTT accessories for smart phones limited
- 2 devices = 2 different accessories



# **Hurdles to overcome**

• Limited real estate:



# **User Wishlist**





#### **Smartphone Connexion**



Via Bluetooth or wired, through a lockable USB cable

#### **Radio Terminal Connexion**

Connexion via cable or BT. Radio terminal provides battery charging to the MDR

### 4 PTT



Personalization of PTT assignment (smartphone or radio terminal)

### SOS

SOS settings either to the smartphone and/or the radio



#### **Noise cancelling**

Integration of a software solution for noise cancellation

### Accessories

Wired or BT connection. 3.5mm Jack for earphone and Nexus or Leno or Fischer connectors for audio headsets



#### **Knob Dual Functions**

Volume + group selection



# Solution





# **Gateway Mode**

- The gateway mode, developed in the MDR, makes it possible to pair communications coming from the LMR radio to a smartphone group call and vice versa.
- The aim is for example to forward communications coming from the direct mode channel (DMO or Simplex) of the LMR radio to an MCPTT group call of the smartphone.
- This mode is activated via the configuration menu and the user always has the possibility to speak on one or the other communication.





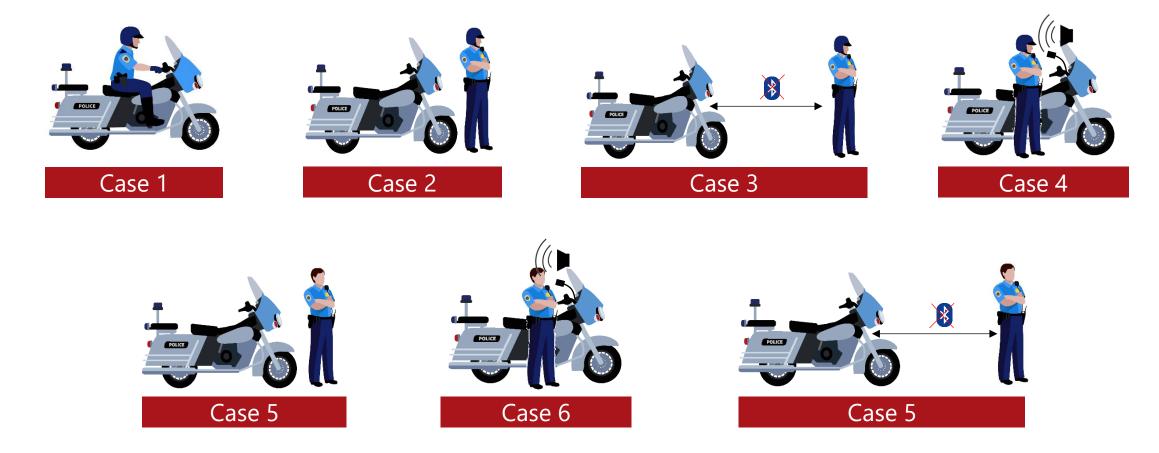
# More hurdles to overcome

- The French Police and Gendarmerie needed to equip all of their motorcycles with a new communications system, offering the rider the possibility to communicate on the current radio network and the new MCPTT radio network, but using the same modus operandi.
- They want to re-use the same cabling, PTT button, volume selector and audio system in the helmet





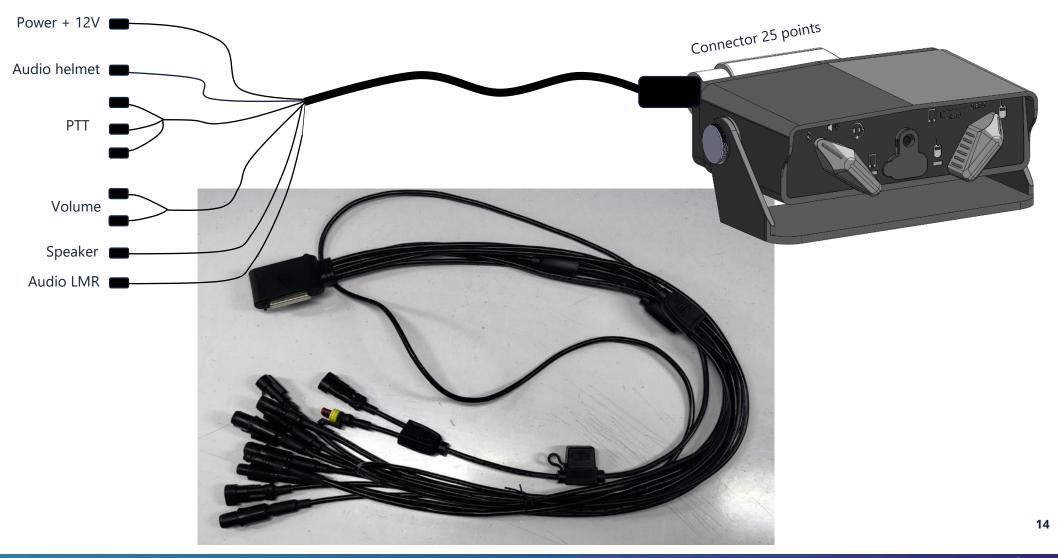
### **More hurdles to overcome**







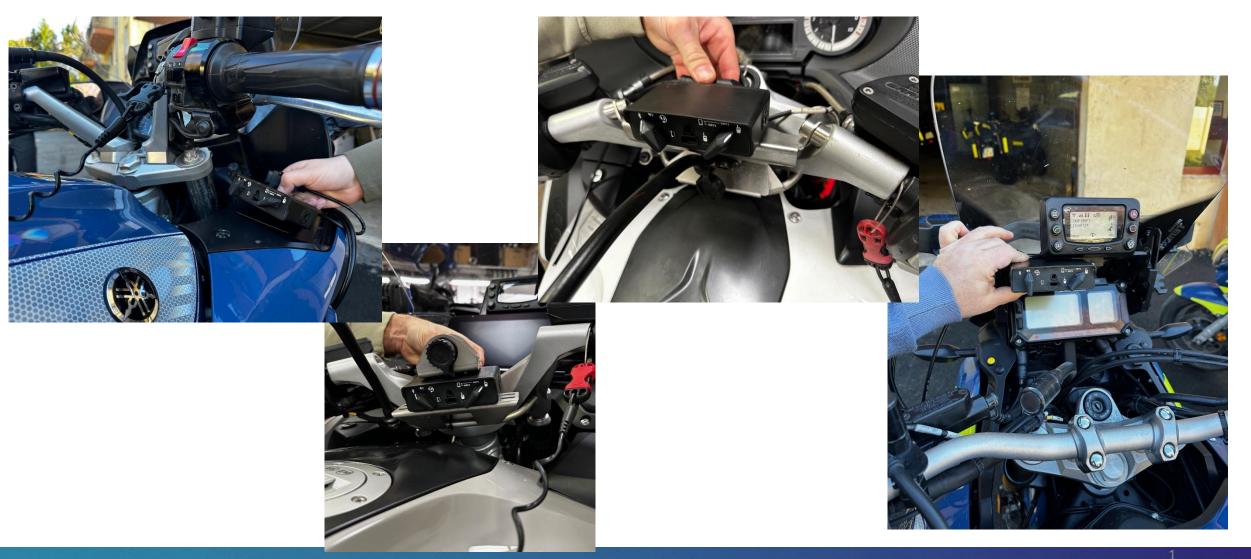
## The cable





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# The installation





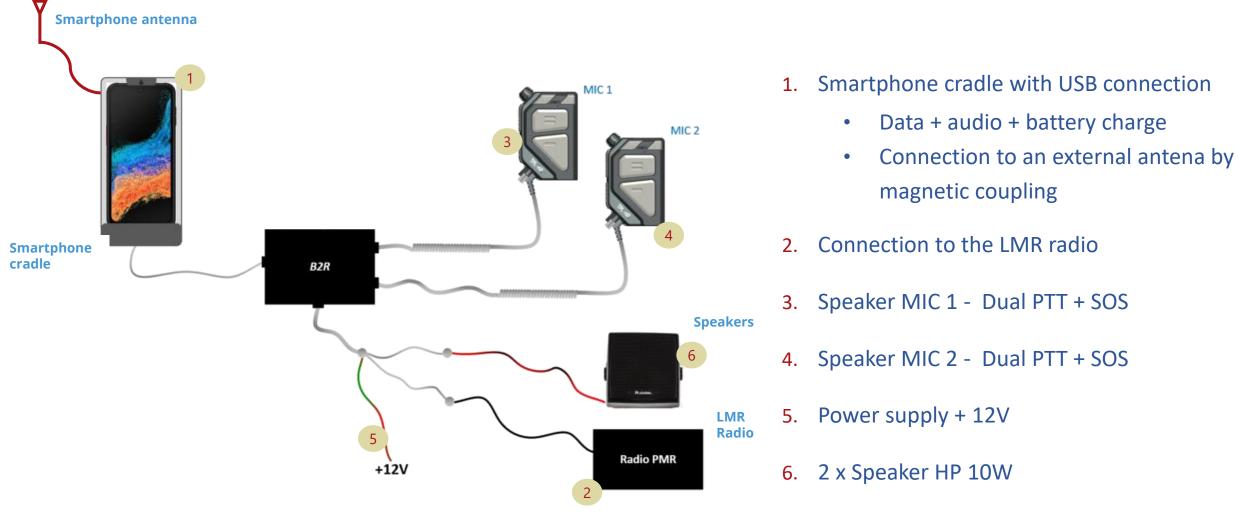
# More hurdles to overcome

 The French Fire Fighters needed to equip all of their appliances with the new communications system, offering the driver/ Captain the possibility to communicate on the current radio network and the new MCPTT radio network, but using the same modus operandi.



# Schematic





# **Solution**





**Connexion to the smartphone and radio mobile terminal** 



Enjoy powerful and clear sound thanks to a high-power speaker



Facilitate use with the connection of speaker-micro that can control both the smartphone and the PMR radio Possibility to have 2 speaker-mic



Charge the smartphone to benefit from a battery



Improve the reception quality of 4G and 5G networks in the vehicle



# Conclusion

- MCPTT is here and growing quickly so agencies need to adapt
- Making the transition easy helps introduce the technology
- Combining the networks offer resilience
- Listening to the customer is key in development of solutions



## **Merci Beaucoup**









