

Leonardo @ Comunicazioni radio per la sicurezza II punto sulle reti mission critical

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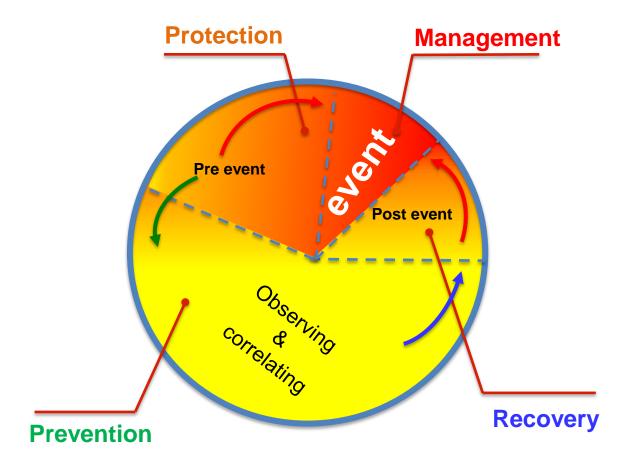
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TECHNOLOGICAL SUPPORT

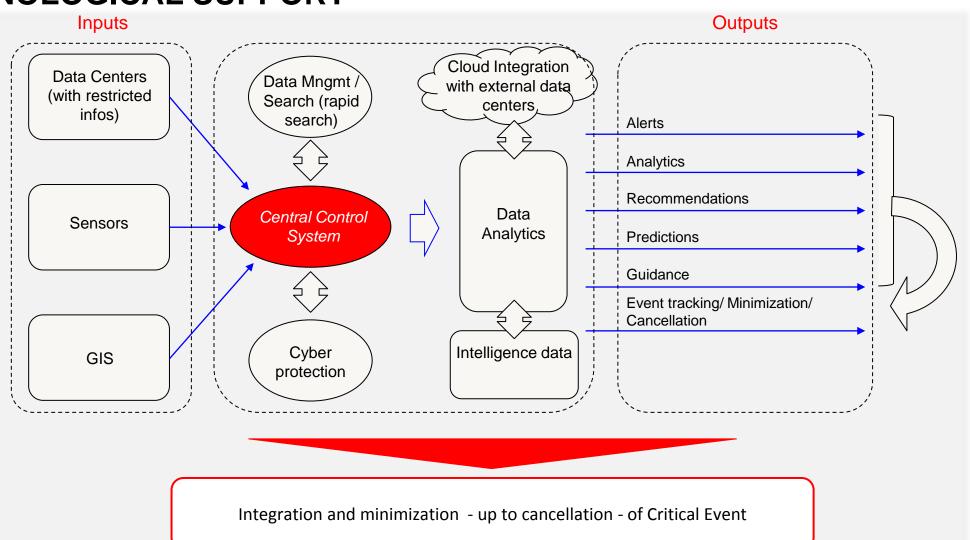


- Prevention sensors, threat intelligence and advanced analytics allow better readiness
- Protection integrated physical and logical security mitigate events' likelihood
- Management impact and duration is reduced through better operations
- Recovery support to resilience allows reduction of recovery time





TECHNOLOGICAL SUPPORT



Source: consulting report on security market dynamics





MISSION CRITICAL TECHNOLOGICAL SUPPORT

- High Availability
- High Usability
- Coverage
- Priority & emergency calls
- Group call
- Coordination and field supervision
- Secure and protected operations
- Specialized terminals





MISSION CRITICAL TECHNOLOGICAL SUPPORT

- High Usability → Voice quality / best effort data
- Coverage

 Also in areas with low commercial value
- Priority & emergency calls

 Available bandwidth & Preemption
- Group call → Allow heterogenous distribution of users
- Coordination and field supervision → Analytics / Control Rooms
- Secure and protected operations → Cyber protection / resilience
- Specialized terminals → vs. General purpose Devices





MISSION CRITICAL PARTNER

- High Availability → Service Partner (full service on Tetra network)
- High Usability → Hybrid Network with MC Core
- Coverage → Hybrid Network + Deployable
- Priority & emergency calls → QoS, PTT + MCPTT
- Group call → Interworking, MC services
- Coordination and field supervision → Integrated Control Rooms
- Secure and protected operations → Users DB, SIMs, Cyber & NW protection
- Specialized terminals → BoB + Specialized applications





The COMMS SCENARIO: a Public & Private effort...



System implementation

Standards

Industry

3GPP/ETSI

- Coexistence will be a fact until 2025-2030 (Broadmap, TCCA)
- Hybrid networks (leading towards 5G) will be needed
 (all major players consider to merge dedicated PMR and BB services
 according to different levels of severity, availability, reliability, etc.)
 (TCCA, 3GPP, IEEE, 5GPPP-5GIA, EU DGCOM COCOM)

M-R mission critical Vo

2025/30?

• EU strategy for across borders interoperability must be adopted to manage transnational events (ISITEP, UE roadmap) and frequencies must be harmonized (e.g. Option B of ECC n.218 report, 2x8Mhz)

BroadMap Transition Window Primary window for UK PPDRlooking forward managed transition of national PPDR to move to LTE from narrow band to critical TETRA networks broadband WRC2015 * Critical LTE Roll-out Critical LTE data + voice technology available TETRA/TETRAPOL/P25 technologies are available 2015 Priority and National next gen. frequency lobby

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THANK YOU FOR YOUR ATTENTION

