



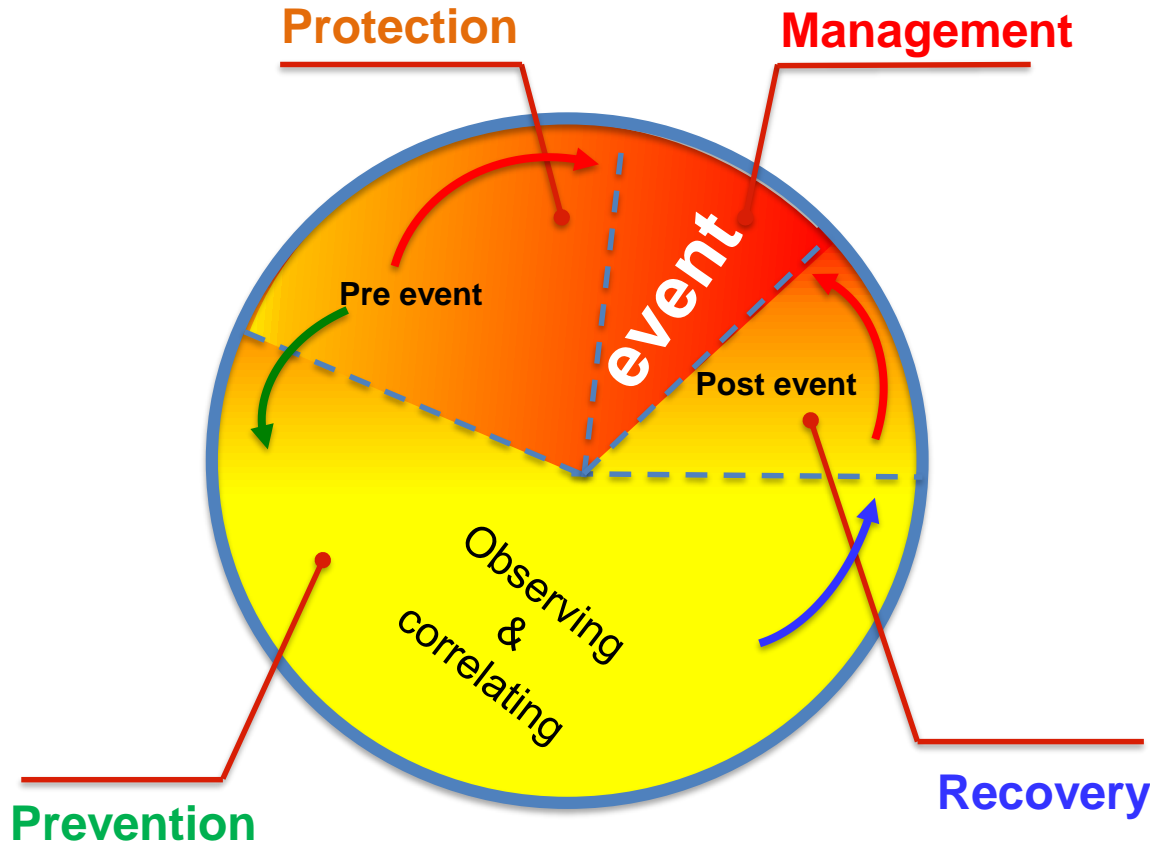
Leonardo @ Comunicazioni radio per la sicurezza **Tavola rotonda: le novità relative ai servizi radiomobili in Italia e all'Estero**

Giorgio Mosca – Strategy & Technology Director – S&IS Division

Milano, 16 Aprile 2018



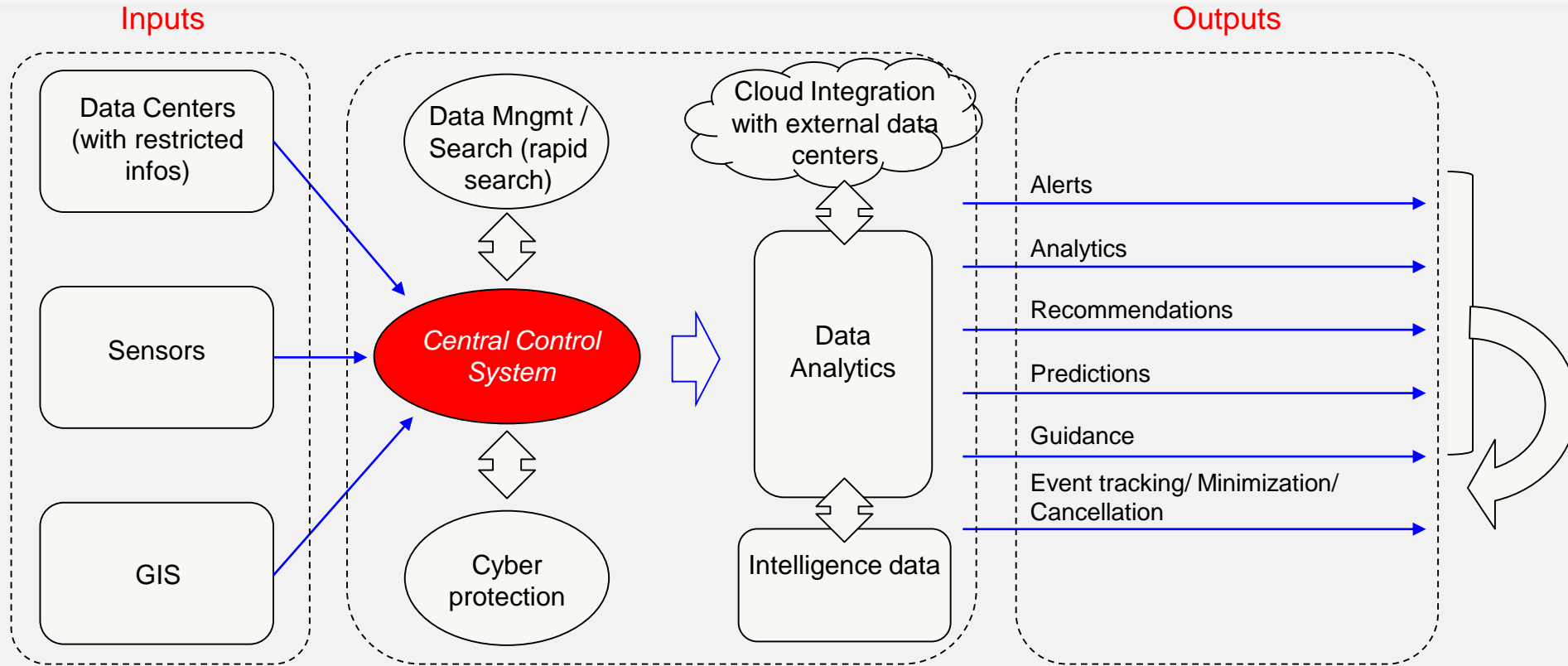
The PROBLEM: from REACTION to PREVENTION



- **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

*Technology supports mitigation of risks and impacts
and increases efficiency and effectiveness*

The APPROACH: INTEGRATED SECURITY



Integration and minimization - up to cancellation - of Critical Event

Source: consulting report on security market dynamics

The SOLUTION: INTEGRATED PLATFORMS AND COOPERATIVE DEVICES

Ground Control Rooms



Mobile Control Room



PRESENTATION

**SECURE
COMMS**

*Workflow
Management*

*Decision
Supporting
System*

Event correlator

Planner

*Resource
management*

Analytics

GIS 2D & 3D

**Cyber Security
and Intelligence
System**

*Data cleaning and normalization
Data storage and analysis
Ontology management
Data interlinking*

Security and Safety Integration Platform

Radar and EO Sub
System

Perimeter Intrusion Detection
Sub System

Video Management
Sub System

Access Control
Sub System

Safety
Subsystem

RPAS
UAV
Subsystem



RADAR

Electro Optical

Active and
Passive
Barriers

Fiber

Thermal & Optical
Cameras

Video Analytics

People Access
Control

Vehicle
Access
Control

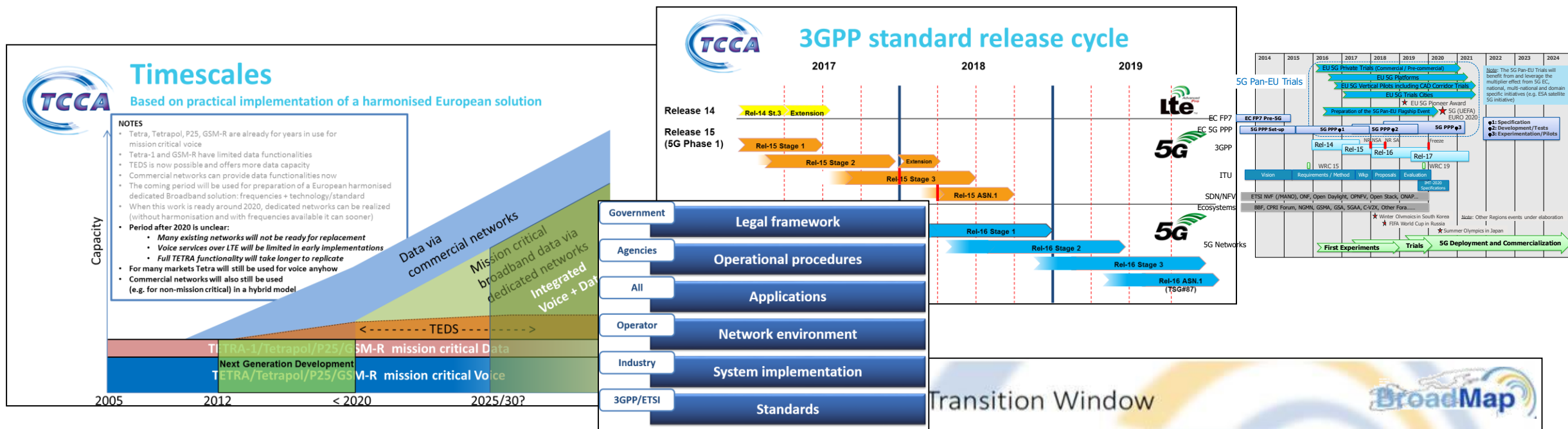
Fire
System
PAGA
Etc.

Satellite Imagery
Subsystem

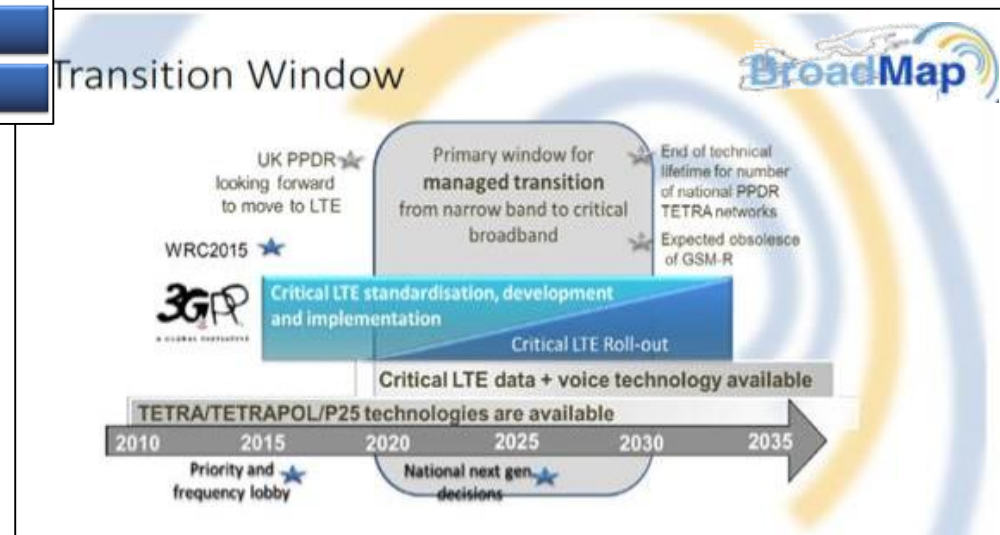
PHYSICAL SECURITY

3D Face / IRIS

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



- 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 DGC0M – COCOM*)
- 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*)



Giorgio Mosca

Director Strategy & Technologies
Security & IS Division, Leonardo

THANK YOU FOR YOUR ATTENTION

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