



G7 Transport Academic Workshop

From infrastructure monitoring to Resilience of Transportation networks

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Politecnico di Milano, Bovisa Campus, Milan (Italy)

Reference context

Services



Mobility of People

Mobility of Goods



Networks & Infrastructure
Shipping



Roads



Railways

Facilities



Bridges



Viadotti



Galleries

Skills Needed



Structural Engineers



Telecommunications



Geotechnics



Transporters

Electronic



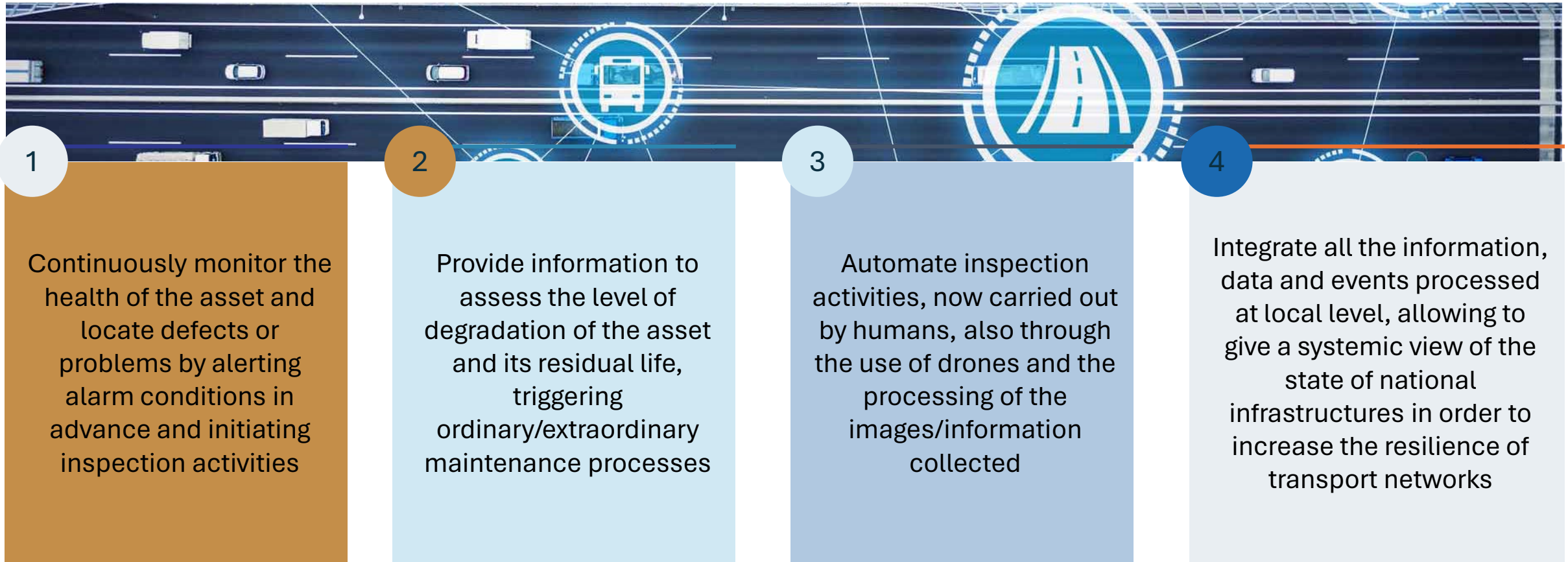
Computer



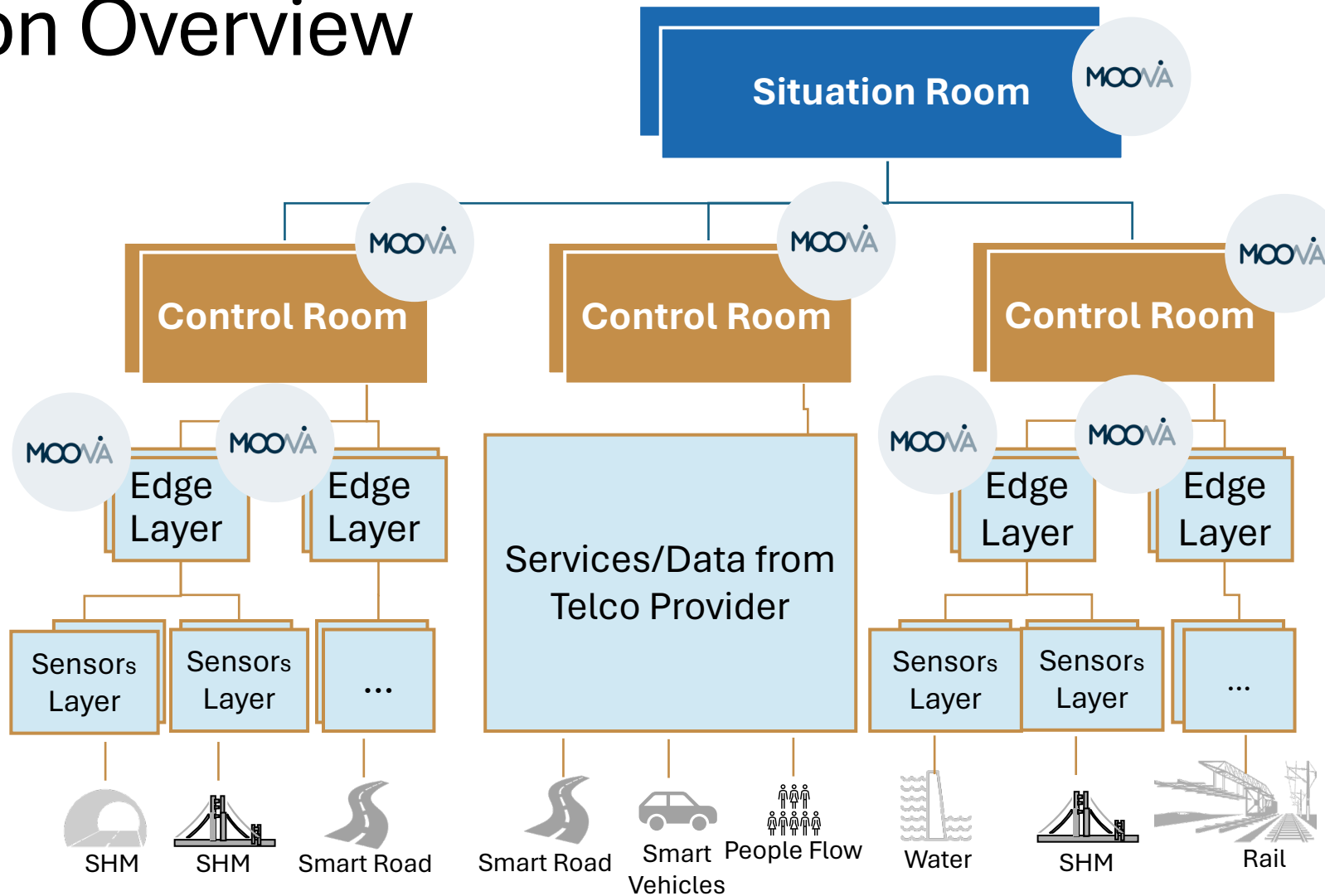
Installers



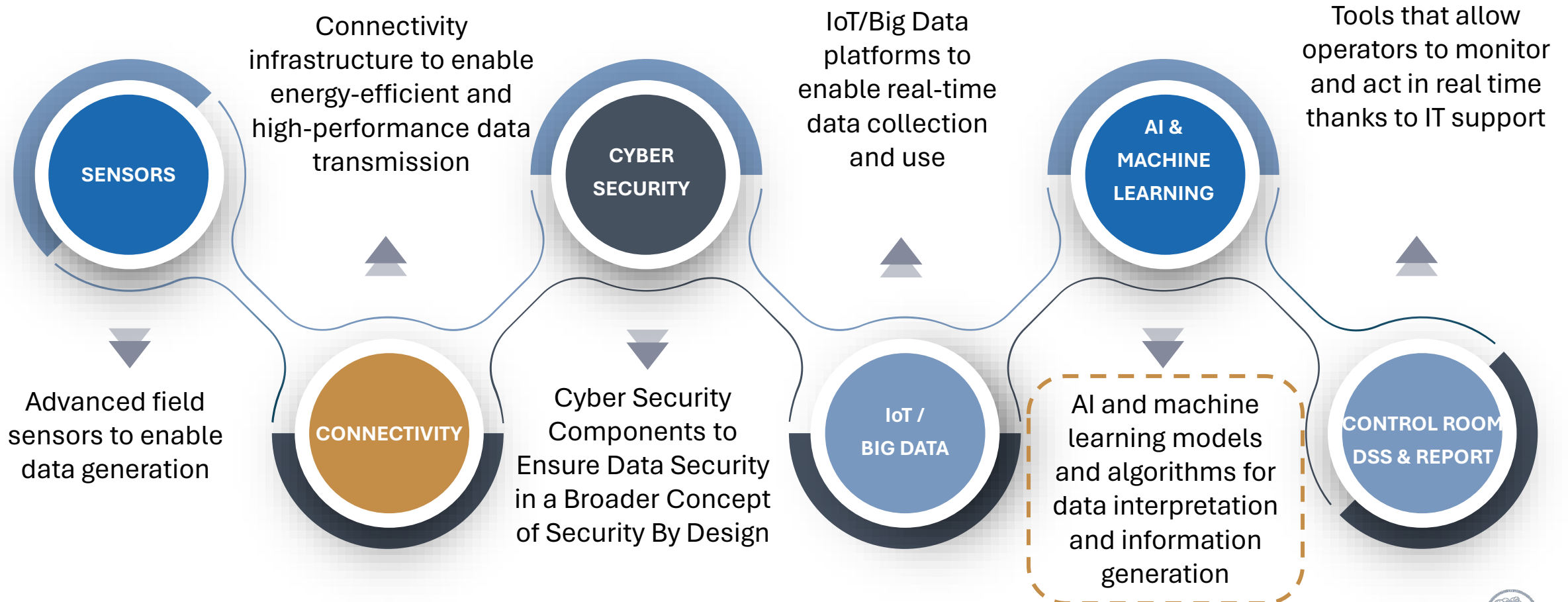
Resilience of transport networks and infrastructures: targets



Solution Overview



Technological components



Almaviva's role within the PNRR: operational projects

FOCUS INFRASTRUCTURE

MONITORING OF CRITICAL INFRASTRUCTURES, WORKS AND PLANTS

CIVIL SYSTEMS MONITORING

45.000
ELEVATORS, ESCALATORS, LIGHTING, FIREPROOF, ACCESS CONTROL, VENTILATION, TEM, PUMPS, TURNSTILES, ENERGY LINES, TECHNOLOGICAL EQUIPMENT PIS

TERMINAL HUB

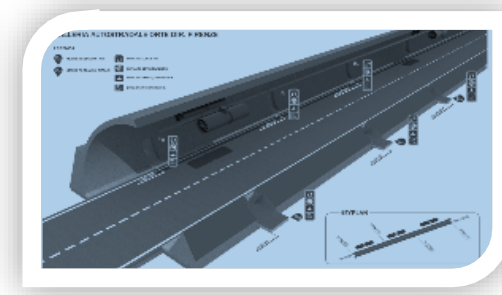
1.600
STATIONS, FACILITIES, PORT

BRIDGES

1200
In delivery

Almaviva developed the Platform that enables the **Real-time monitoring and control of plants, critical infrastructures and works of art** in order to:

- Continuously monitor their health status
- Assess the level of degradation by estimating the remaining life
- Automate inspection tasks
- Streamline Maintenance, Safety and Service Levels and Quality
- Integrate information, data and events by providing a systemic vision at territorial and national level.



Almaviva's role within the PNRR: research

▶ Almaviva participates in major national and European research programmes involving universities, research centres, public and private actors to create advanced and sustainable solutions for mobility

NATIONAL CENTER for Sustainable Mobility

SPOKE 4
Rail Transportation

PoliMi

SPOKE 7
CCAM, Connected Networks and Smart Infrastructures

UniNA

SPOKE 9
Urban Mobility

UniRM1

SPOKE 10
Freight & Logistics

UniNA

▶ Almaviva supports the activities of CN MOST by providing: MOOVA, the platform dedicated to mobility and infrastructure, RESOURCES, with technological and specialist domain skills and the MOOVA LAB

PARTENARIATO ESTESO multi-Risk sciENCE for resilientT commUnities undeR a changiNg climate

TS1

UniNA

Urban and Metropolitan Districts

TS2

PolITO

Resilience of critical infrastructure

▶ Almaviva stimulates the creation of new services by exploiting Moova as a technological incubator of solutions created by Partners, Startups and innovative SMEs



