

ASECAP DAYS



MILANO 2024

Innovation as a key tool to reach safe, inclusive and green mobility solutions

CONFERENCE

Alessandro Finicelli

Secretary General Think Smart Mobility @MIND

Panel: “How to establish an effective regulatory framework and standards that facilitate the deployment carbon free and efficient mobility solutions”

Think Smart Mobility @MIND Members (Milano Innovation District)

Airmobility					
Trainmobility					
Busmobility					
Carmobility					 
Roads and Highways				 	
Parts & Design				 	 
Technologies					  
Services					 

Public Istituzioni



Education, Research & Accademy



Think Smart Mobility @MIND Members (Milano Innovation District)

Telco					
Sharing Mobility					
Mobility & Logistics HUB					
Unions					
Federations / Foundations					

Public Istitutions



Education, Research & Accademy

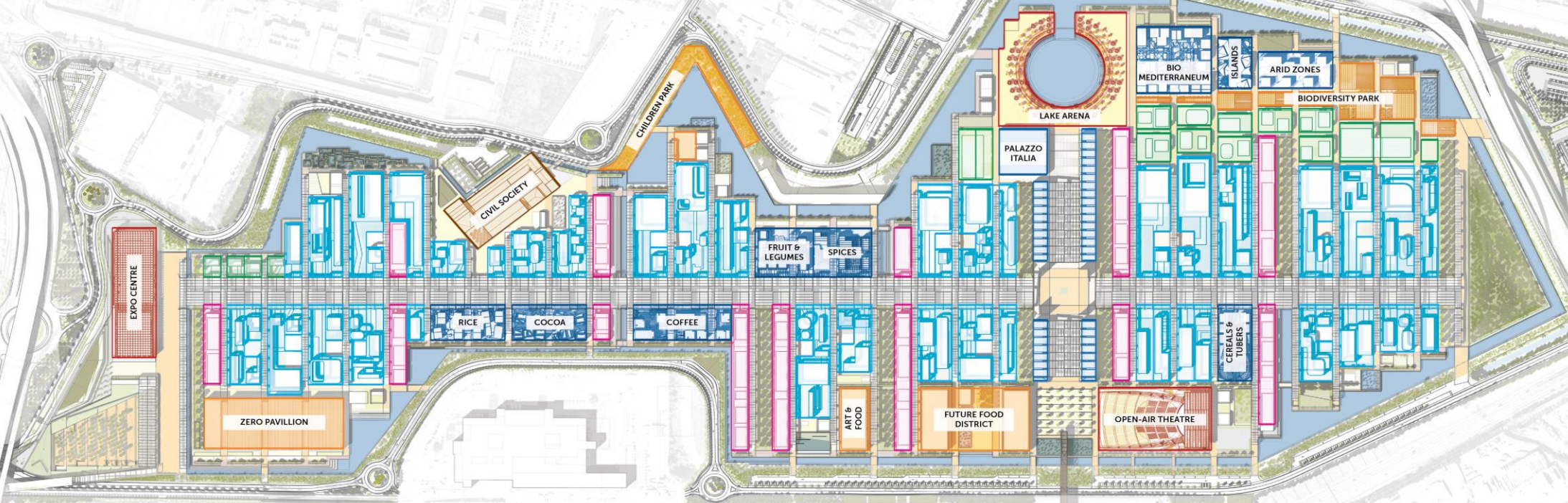


Mission: Think Smart, Mobility @MIND was created with the aim of building a public/private partnership, it wants **to be a driver of innovation and contamination**, finding in the MIND exhibition site the ideal place to experiment and implement new network projects. Creating a system, this is the invitation addressed to those who decide to participate in the initiative.

Past: Bricks and Mortar

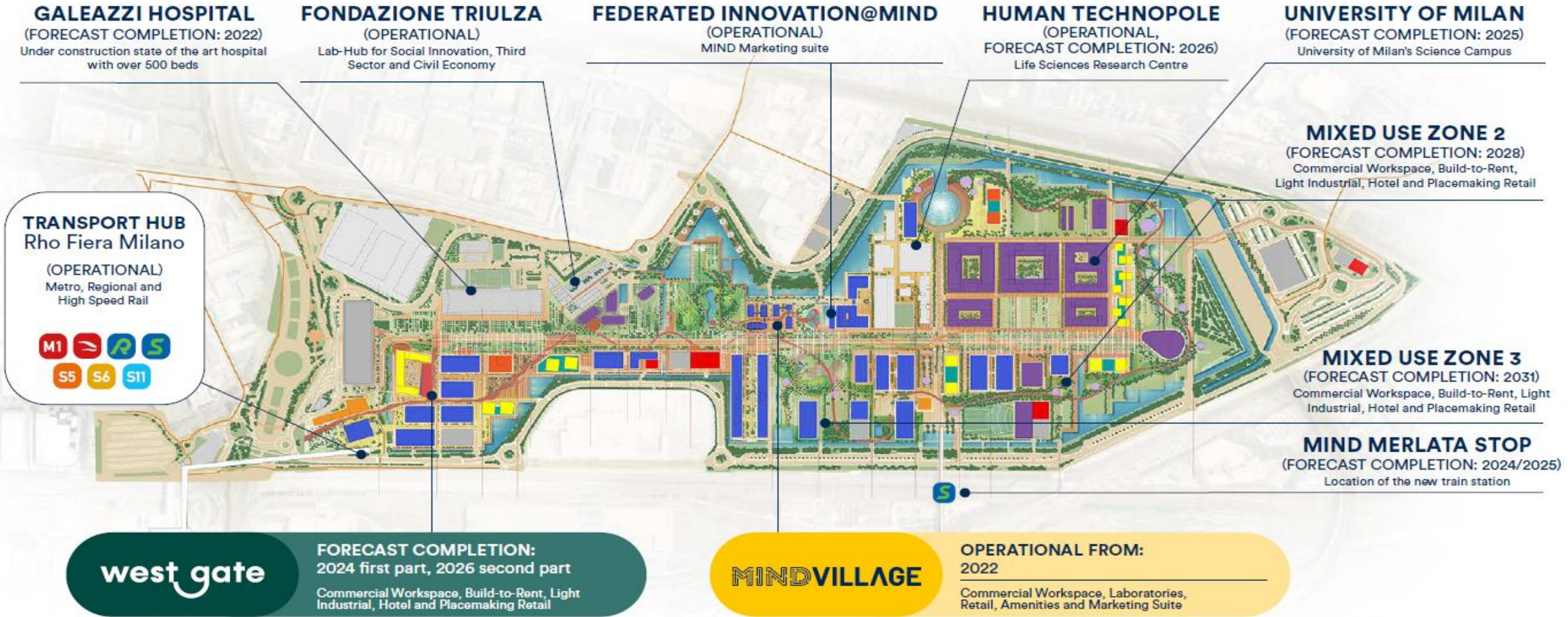


MILANO 2015
FEEDING THE PLANET
ENERGY FOR LIFE



- THEMATIC AREAS
- EVENT AREAS
- SERVICE AREAS
- OFFICIAL PARTICIPANTS SELF BUILT LOTS
- OFFICIAL PARTICIPANTS CLUSTERS
- PALAZZO ITALIA
- CORPORATE
- CIVIL SOCIETY

Present & Future: Bricks and Clicks



■ COMMERCIAL
 ■ RESIDENTIAL
 ■ RETAIL
 ■ HOTEL
 ■ LIGHT INDUSTRY-LAB
 ■ STUDENT HOUSING
 ■ PUBLIC PROGRAMME
 ■ PUBLIC PROGRAMME PARKS
 ■ PARKING
 ■ TECHNOPOLO

THEMES AND CHALLENGES (ENERGY, DATA AND MOBILITY)

1) Hydrogen Mobility

Hydrogen is playing a key role in the race to create a sustainable European economy. **The Lombardy Region has launched important projects in the field of mobility.** Theme and challenges in public/private collaboration between the subjects participating in it.

2) Smart Mobility, Data and Artificial Intelligence

Accelerate the affirmation of Smart and Artificial Intelligence for mobility in Lombardy, with skills capable of making the territory a point of reference in the regional strategy. Theme and challenges in public/private collaboration between the subjects participating in it.

3) Smart Rails, Smart Roads and Infrastructures, Autonomous Mobility

The Lombardy Region intends to create an **Innovation Hub (HUB)** for the research and experimentation of assisted and autonomous mobility solutions, intelligent infrastructures capable of communicating with vehicles. Theme and challenges in public/private collaboration between the subjects participating in it.

**STAZIONI DI RIFORNIMENTO
A IDROGENO APPROVATE:**



Aziende e comuni

- Alperia Greenpower Srl**
Brunico (BZ)
- Autostrade del Brennero**
Lavis Est (TN)
Lavis Ovest (TN)
Verona
Vipiteno (BZ)
- Azienda Prov. Trasporti Spa**
Monfalcone (GO)
- Beyfin Spa Soc. Benefit**
Cortona (AR)
- CFFT Spa**
Civitavecchia (RM)
- Dilella Invest Spa Hope Srl**
Bari
- EDISON Spa**
Meolo (VE)
San Bonifacio (VR)
Piacenza
Carisio (VC) vercelli
San Severo (FG)
Ferentino (FR) frosinone
Malpensa (MI)
- Energie Techfem Srl Società benefit**
Bellocchi di Fano (PU)
- ENI Spa S. Mobility**
Taranto
San Donato Milanese (MI)
Mestre (VE)
- F.M.C. Srl - Base House Srl**
Pianodardine (AV)
- Gemmo Spa — Simplify Sb Srl**
San Donà di Piave (VE)
- Green Factory Srl**
Paese (TV)
- IP S.P.A.**
Casale Monferrato (AL)
Cassano d'Adda (MI)
- Italgas Reti Spa**
Sestu (CA)
- Milano Serravalle Spa**
Carugate Est (MI)
Carugate Ovest (MI)
Tortona (AL)
- Q8 Petroleum Italia Spa**
Porpetto (UD)
Roma
- Renco Spa - Az. Agr. Del Poggio Sas - Immobiliare Del Poggio Srl**
Falconara Marittima (AN)
- Res - Recupero Etico Sostenibile Spa**
Pettoranello del Molise (IS)
- Res Integra S.r.l.**
Priolo Gargallo (SR)
- Sapio Srl - Keropetrol Spa**
Mantova
Vicolungo (NO)
- Sasa Spa**
Bolzano
Merano (BZ)
- Snam 4 Mobility Spa**
Arquata Scrivia (AL)
Avezzano (AQ)
Bari
Belforte Ovada (AL)
Limena (PD)
Monselice (PD)
Torrazza Piemonte (TO)
Torre a Isola (PV)
- Sol spa**
Pollein (AO)
- Teca Gas Srl**
Lamezia Terme (CZ)



STAZIONI PER IL RIFORNIMENTO STRADALE



STAZIONI PER IL RIFORNIMENTO FERROVIARIO



Aziende e linee ferroviarie

- Arst Spa**
Sassari-Alghero
Macomer-Nuoro
Monserrato-Isili
- Ente Autonomo Valtorno s.r.l.**
SMCV-Piedimonte
- Ferrovie del Sud Est e Servizi Automobilistici s.r.l.**
Lecce-Gallipoli
Novoli-Gagliano
Casarano-Gallipoli
- Ferrovie della Calabria**
Cosenza-Catanzaro
- Ferrovienord Spa**
Brescia-Iseo-Edolo
- Gestione Governativa Ferrovia Circumetnea**
Circumetnea



Next GenEU Hydrogen Refuelling Stations

Challenges:

- **FCEV Vehicle** (2.5x / (UE) n.406/2010 Omologation, NO Service, Maintenance and Inspection Regulation / NO Incentive Buy, Park, LTZ / BEV regulation extention needed)
- **H2 Refuelling Costs** (500 Km / 90 eur / 18 eur x 100Km / NO contribution)
- **H2 Colours/Production** (Grey, Blue, Green, Pink) Market Deployment
- **H2 Safety Station/Vehicles/Garages** (UE 2014/94/UE / DM 2018)



Pilot Ongoing: MIND Area (MIND Innovation Week May 2024 BUS / CAR)



What's next? MIND Area / MED / Rhine-Alpine TEN-T Logistic Corridors (LIGHT AND HEAVY TRUCKS) Pilot with Retrofit H2 Technology

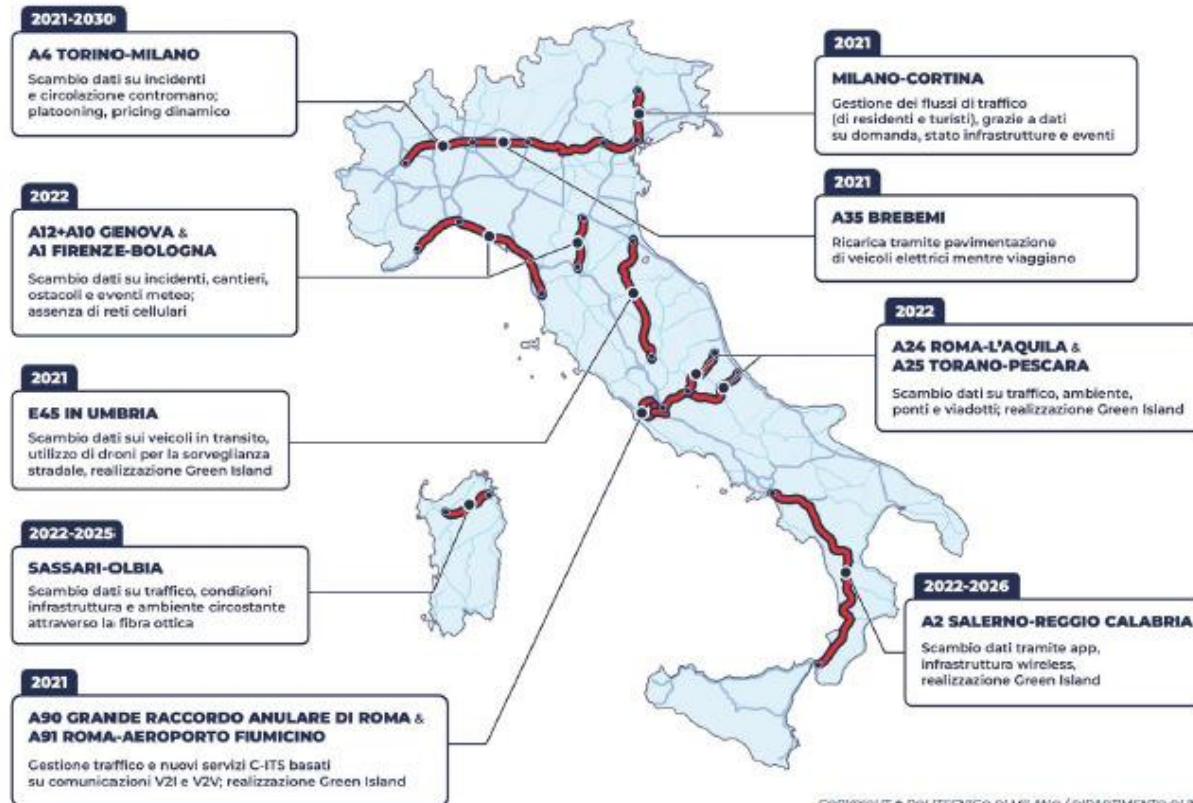


Smart Roads paving the AV way

Challenges:

Smart Road: l'Italia tra i paesi più avanti nello sviluppo

Osservatorio Connected Car & Mobility
26.05.23 #OCCM23



- **AV Vehicle Costs/Availability:** Buy / Rent / Lease / Public Transport / Taxi only ???
Industry process ongoing

- **AV Legislation** (DM 70/2018 Italy / NO Car Maker Permission, Pilot only / NO Public Roads / No Interaction with other vehicles / No Insurance / DL 76/2020 «Sperimentazione Italia» 1Y only for testing / AUTONOMOUS ACT LAW Germany benchmark / SAE L5 Private Area

- **Roads and Highways AV ready** (HD Maps / Traffic Signs / Speed Limits / No Service / Maintenance / Inspection Regulation)

- **Social Impact** (Public education about automated vehicles is needed)



Smart Roads paving the AV way

What's next? Pilots

MIND Area

Fiera Milano Exhibition Center

Fiorenza Train Maintenance Center

Galeazzi Hospital / Municipality of RHO

Target: 1000 Robotaxi Selected Users





Contact

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Thanks for your attention !