

SPM2017

Mobilità sostenibile nell'Industria 4.0: opportunità per lo sviluppo e la coesione territoriale

*Sustainable Mobility and Industry 4.0: opportunities for development
and territorial cohesion*

Enrico Pisino

Director of National Technology Cluster Transportation

web
spm.mesap.it

#spm2017
@mesapcluster

6th, 7th July 2017
Team-up for innovation

Progetto co-finanziato sul bando I1b12_cluster





Sustainable Mobility and Industry 4.0: opportunities for development and territorial cohesion

Embracing Italian Innovation in Transport

Enrico Pisino

Turin – July 6th, 2017

Italian technology Cluster “Transport Italy 2020”

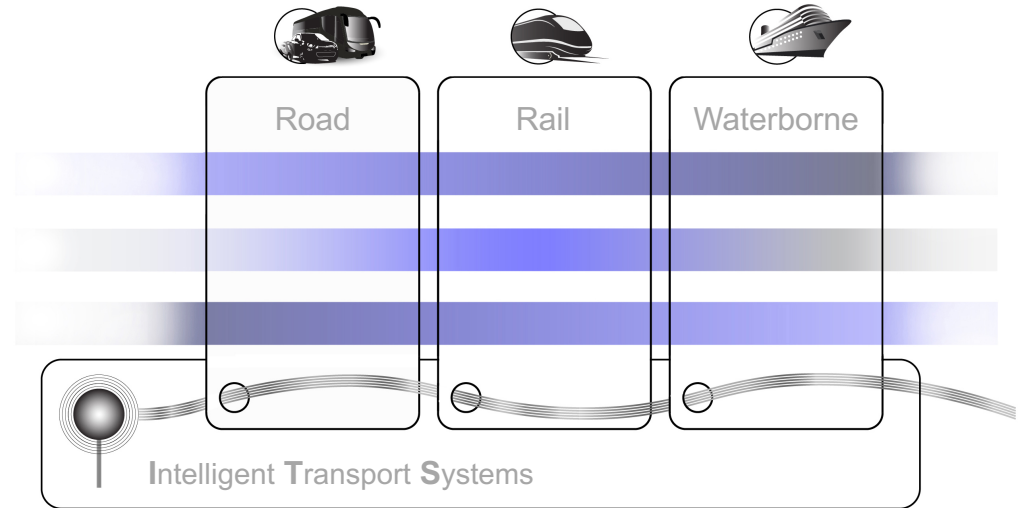


<http://www.clustertrasporti.it/>

“Transport Italy 2020” is the Italian reference association on surface transportation to bring together road, rail, waterborne and ITS, and represent industries, services for transportation & logistics, academia.

Cluster “Transport Italy 2020” President: E. Pisino, FCA

In March 2017 the Cluster prepared
the first “cross domain”
technological roadmaps



THE CLUSTER ASSOCIATION IS OPEN TO ALL TRANSPORTATION STAKEHOLDERS

“Transport Italy 2020” - Key Figures



83

Association members

- 14 Universities
- 2 Public Research Centres
- 6 Research Organizations
- 1 Training Organization
- 45 Enterprises (of which 19 SMEs)
- 12 Local aggregations
(grouping more than 1000 partners)
- 3 Associations

8

Italian Regions



€6.4 BILLION
Investment in R&D

Representativeness - Economics



€33.3 BILLION
Revenues

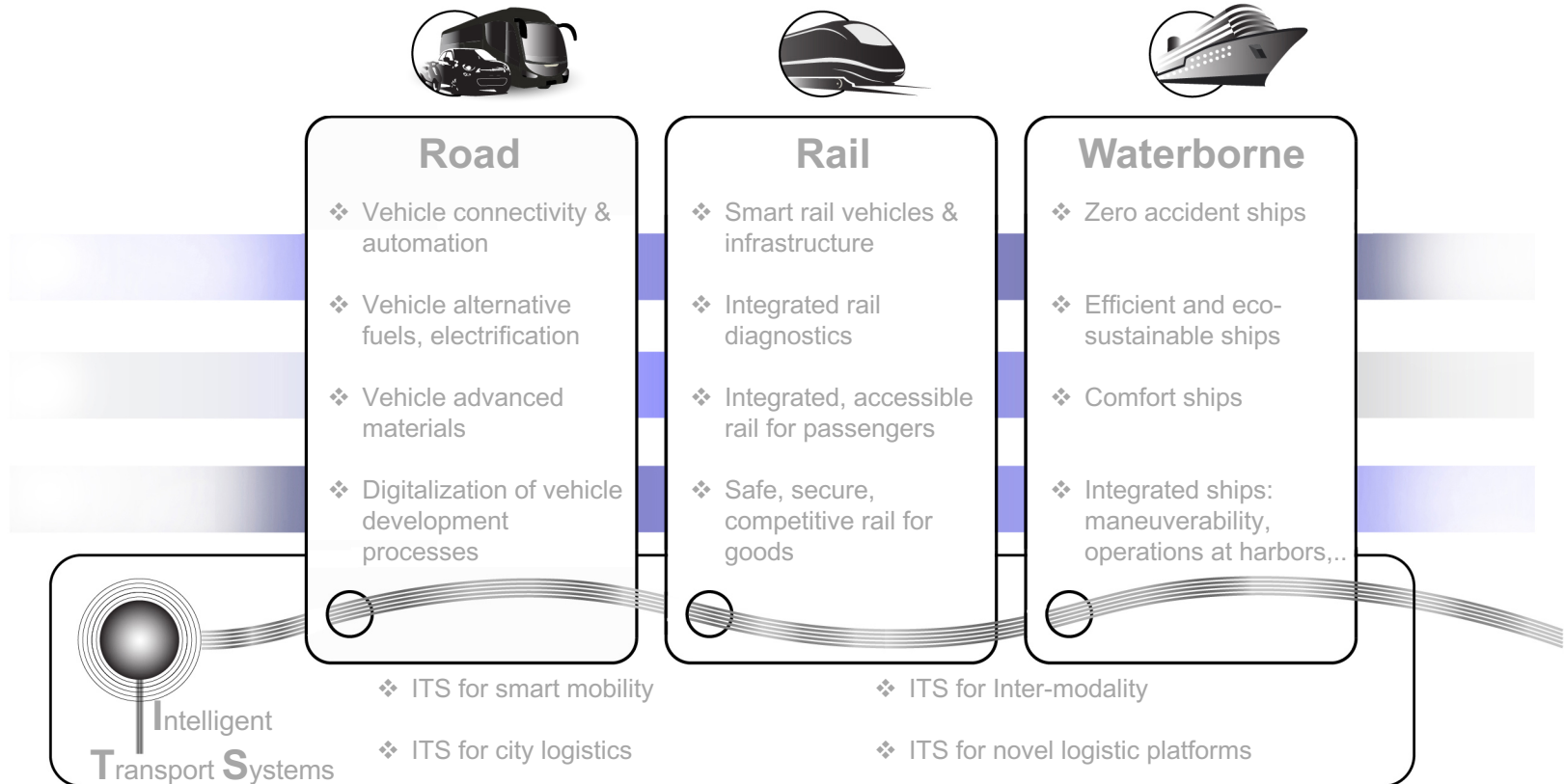


#90
Plants



#200.000
Employees

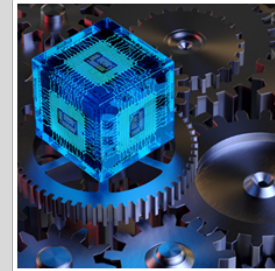
Mobility Sectors and Key Challenges

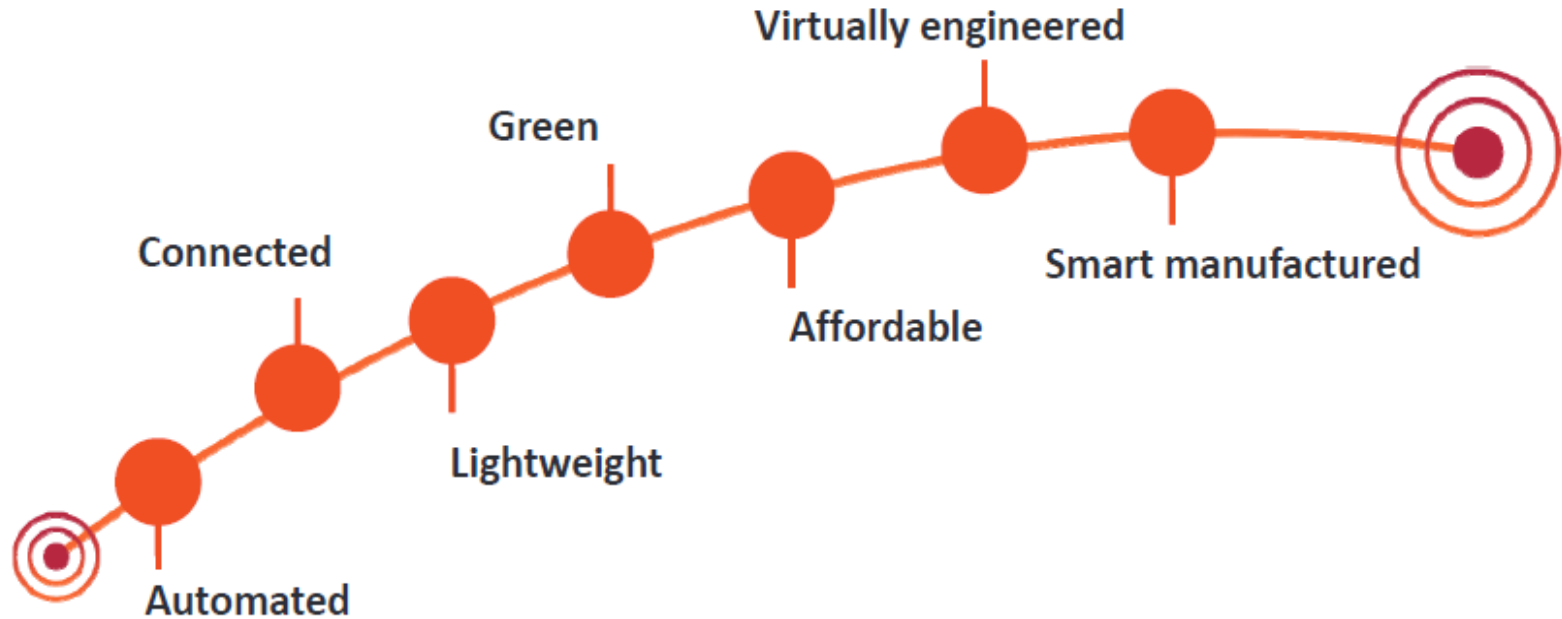


GLOBAL MEGA TRENDS AND SOCIAL NEEDS ARE DEFINING THE KEY CHALLENGES:

- ❖ Decarbonization
- ❖ Air Quality
- ❖ Urbanization
- ❖ Safety
- ❖ Digitalization

**DIGITALIZATION IS NOT ONLY A TREND
IT CAN BE PART OF THE SOLUTION.....**





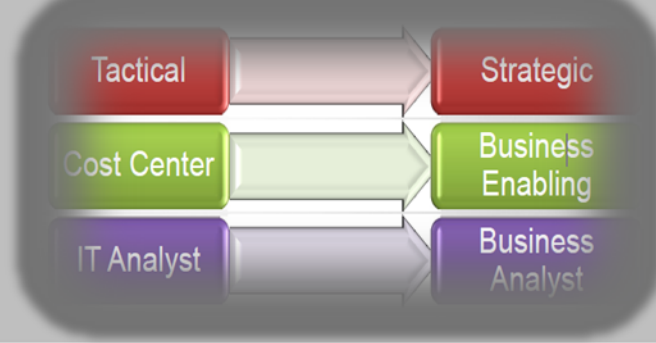
Sustainable mobility and Industry 4.0: the future



GLOBAL COMPANY AND MARKET



IT PARADIGM



ENVIRONMENTAL



SOCIAL

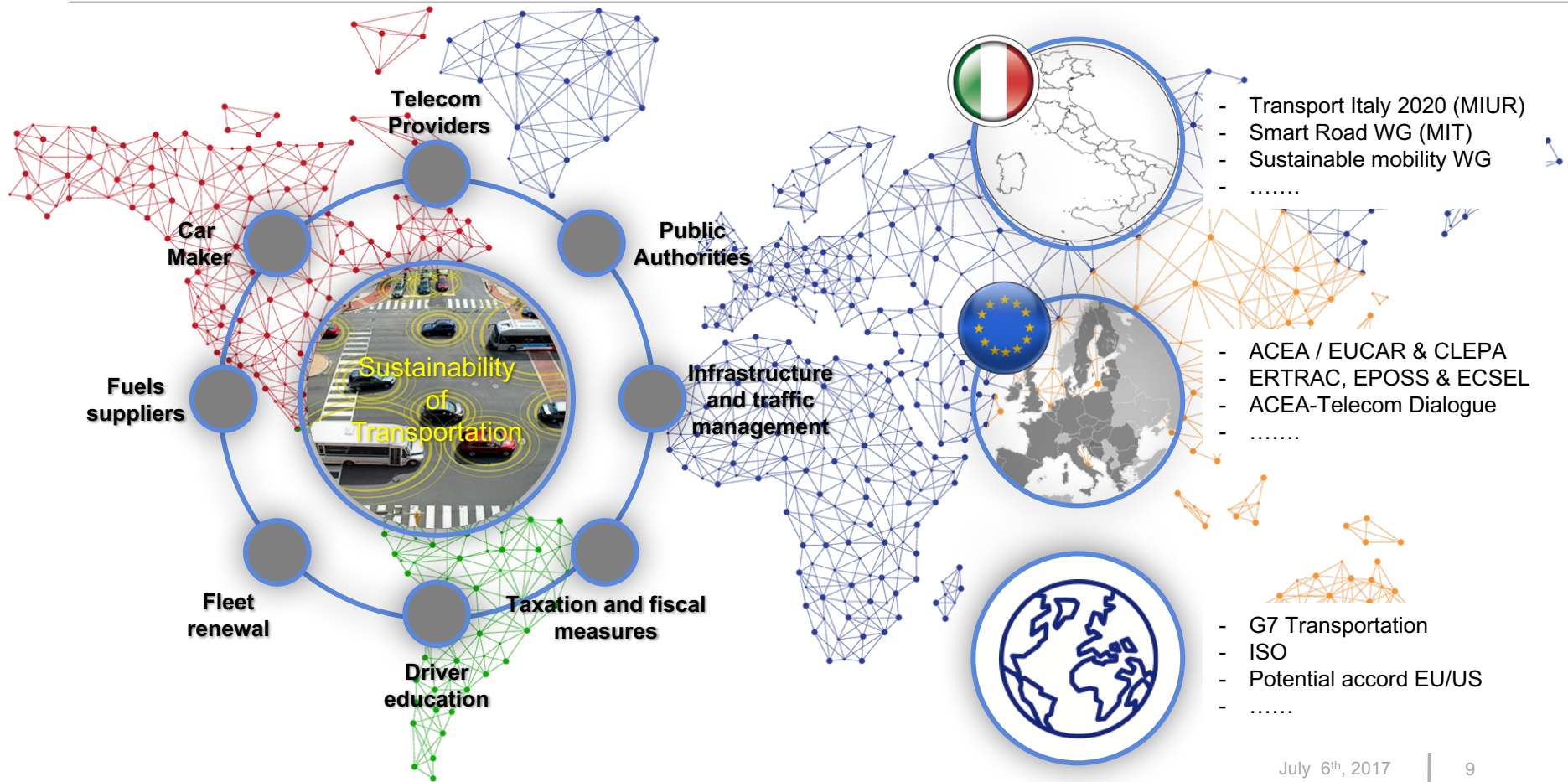


ECONOMIC

3D SUSTAINABILITY

COLLABORATIVE & INTEGRATED
APPROACH

Integrated Approach for Sustainable Mobility



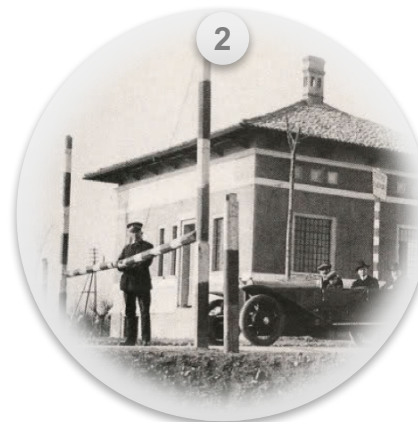
Innovazioni italiane nei trasporti



1. **Tram elettrico:** primo a contatti superficiali indipendenti - 1895



2. **Milano-Laghi** (oggi A8): prima “autostrada” - 1923



3. **Transatlantico REX:** conquista del NASTRO AZZURRO - 1933



4. **ETR 200:** record mondiale di velocità media (Firenze-Milano a 165 km/h) - 1939



5. **Vespa:** prima motocicletta con “struttura portante” - 1946



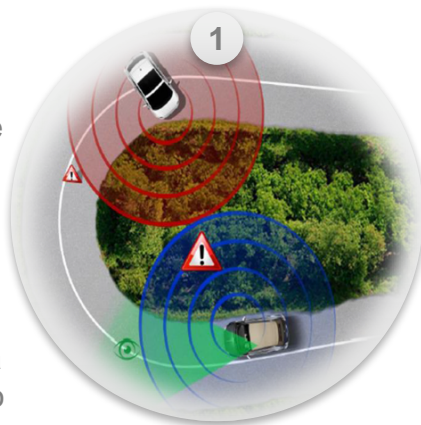
6. **Fiat 600 Multipla:** prima “monovolume” - 1956



Mobilità Sostenibile: le buone pratiche italiane



1. **Mobilità intelligente e sicura:**
nuovi servizi basati su tecnologie
V2X



2. **Simulatore Virtuale Plancia Navale:** sicurezza in last mile



3. **Shelter:** veicolo modulare, per la
consegna merci nell'ultimo miglio



4. **Mobilità ferrotramviaria
elettrica "senza catenaria":**
stoccaggio di energia elettrica
basato su supercapacitori

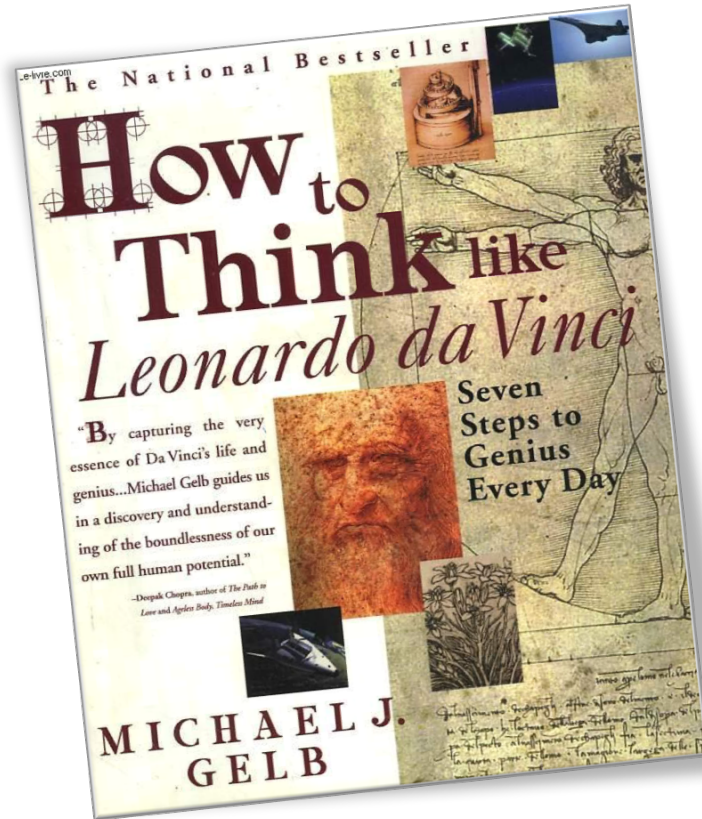


5. **Panda Natural Power a
biometano da acque reflue**



6. **New Stralis per il trasporto e la
logistica del futuro**





.... rispondere alle sfide
con la creatività

.... imparare in fretta

.... guidare
il cambiamento