



# TEN-T and urban nodes: How to bridge the gap?

## Rome experience in the MOVE 21 project

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 953939



# Managing mobility in Rome: the context

**Motorization rate:** 620/1000 inhab (n° 1 in Europe)

**Modal Share:** PT: 19,7%, Private (Car+Motorbike): 61,6%, Walking: 19,2%,  
Cycling+sharing: 2,4%

**Road safety:** about 130 fatalities per year.

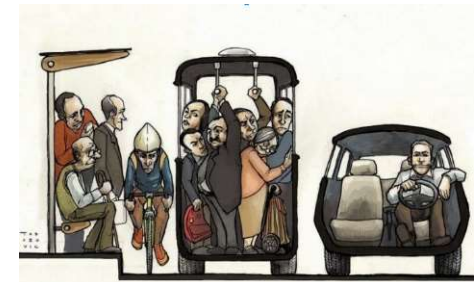
**Status of PT:** backbone on surface network, mainly with bus that run without reserved lanes

**Status of double Capital** open 7 days per week

**Special Events and Vatican Jubilees:** special visitors

**Tourists:** 46.539.097 per year (2019)

**Historical & Cultural Heritage** to be preserved



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# To build new metro lines in the historical centre



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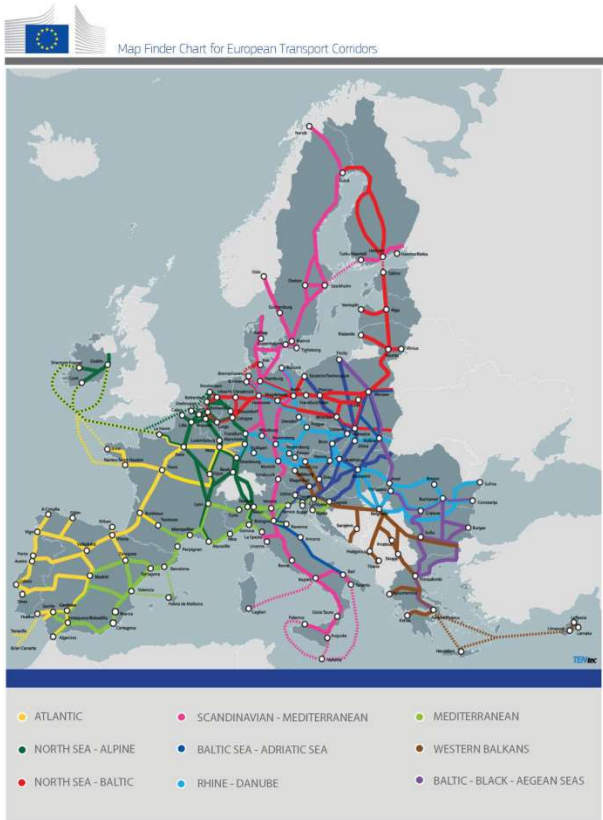
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# Trans-European transport Network

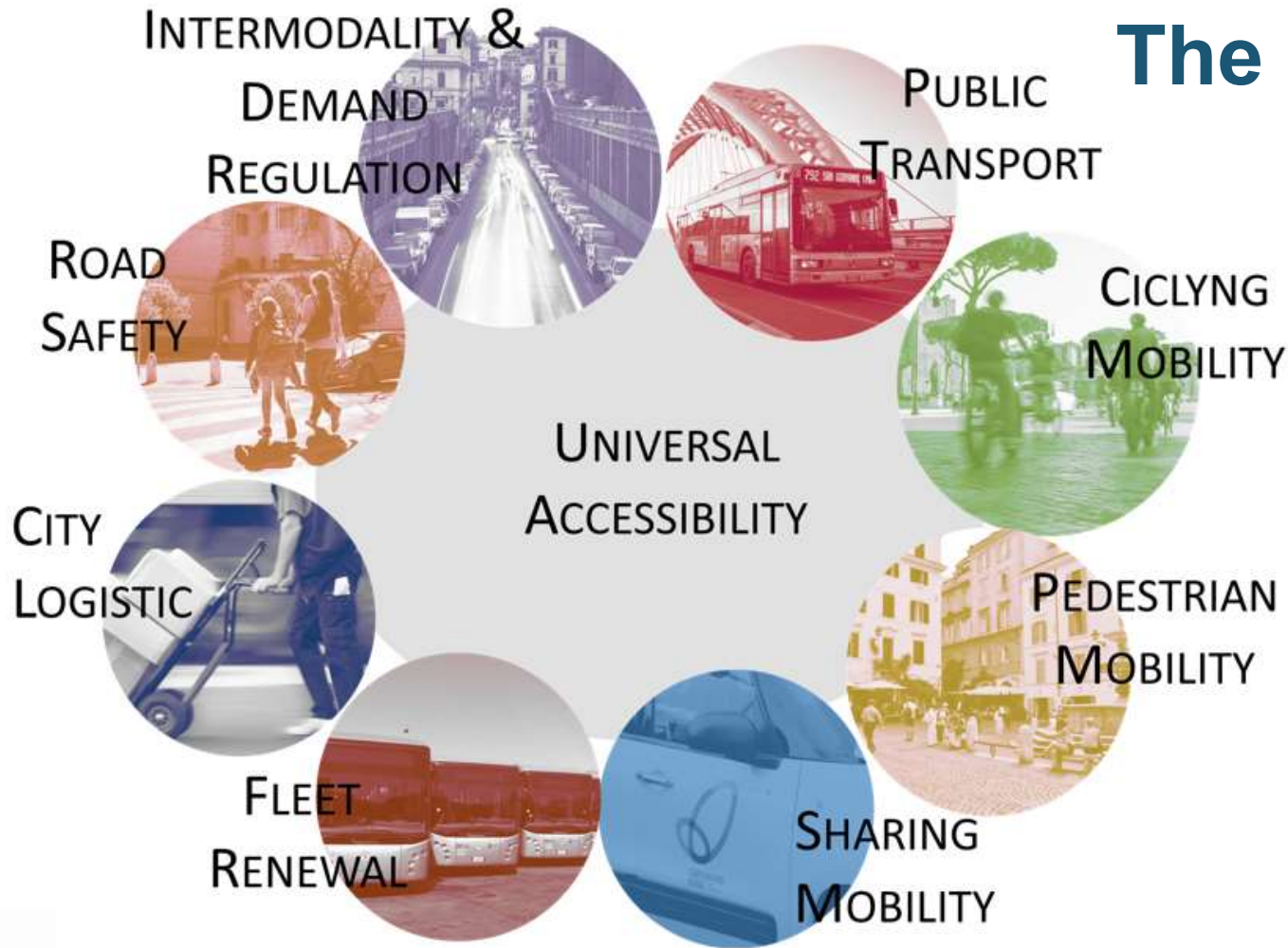


- December 2021 new Trans-European transport Network (TEN-T) Guidelines and the new Urban Mobility Framework (UMF)
- **Urban nodes** on the TEN-T network increased from 88 to **424**)
- More importance to European cities in the TEN-T network
- Cities expected to develop **SUMPs** by **2025**
- At least **one** multimodal passenger **hub** and one multimodal freight **terminal** by **2040**



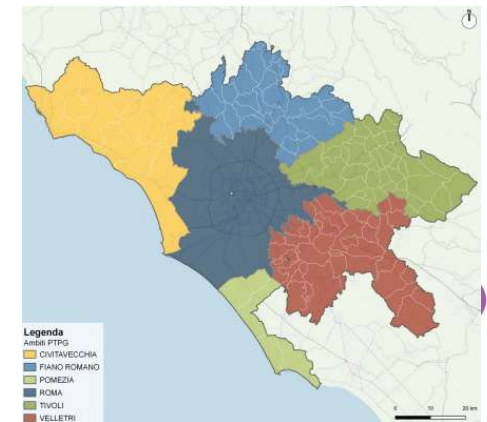
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# The SUMP in Rome



22/02/2022 approval of Rome Municipality SUMP

28/12/2022 adoption of SUMP of the Metropolitan Area of rome



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# Planned growth of transport infrastructures

## Legenda

### Infrastrutture per la mobilità

- Rete metropolitana
- Rete ferroviaria
- Rete tranviaria
- Corridoi EPR
- Stazioni principali
- Nodi di scambio

### Stato di attuazione delle tramvie

- Esistente
- Opere finanziata (BRT)
- Opere finanziata (PMR)

### Identificativi degli interventi

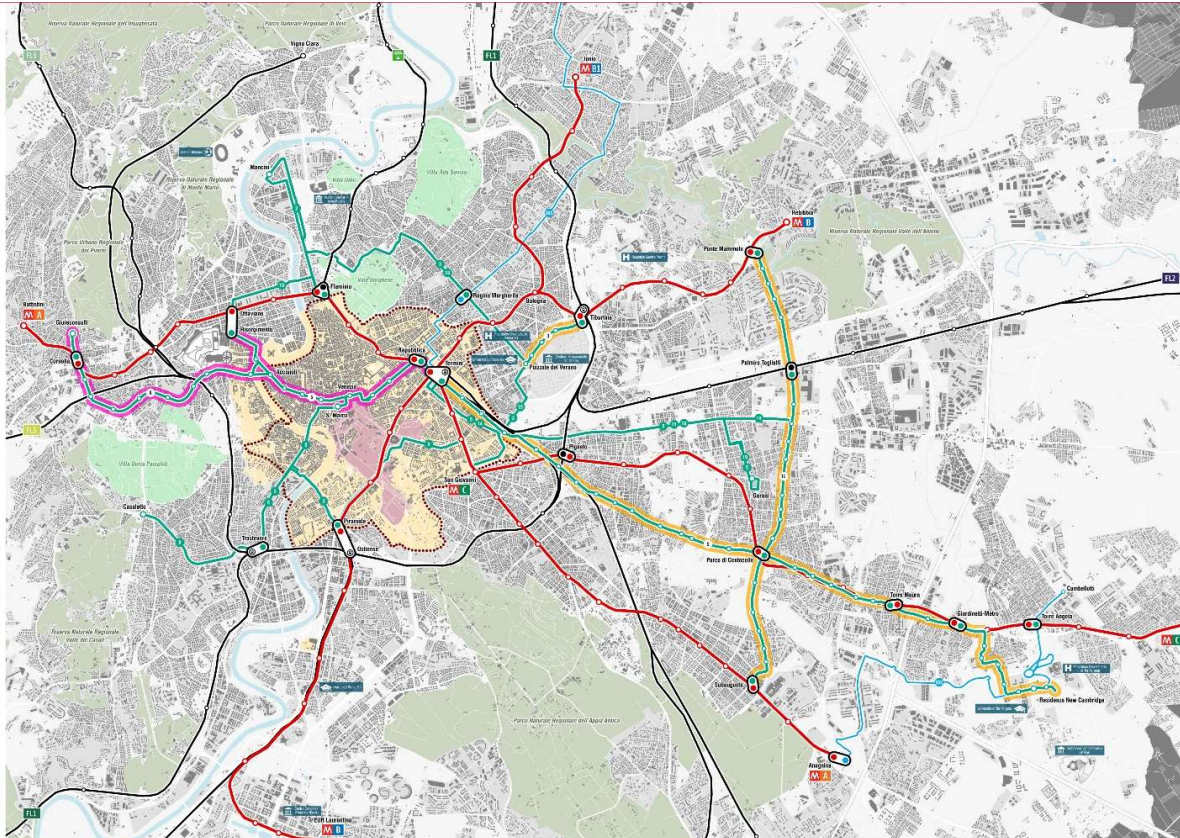
1. Collegamento tranviario: viale di Porta Nuova
5. Collegamento tranviario: Stazione Ferroviaria - Piazza della Repubblica
6. Collegamento tranviario: Lungo corso Porta Nuova - E. Caviglioglio
8. Linea tranviaria: viale di Porta Nuova - Piazza della Repubblica
12. Tronconi tranviario: viale di Porta Nuova - Piazza della Repubblica

### Il Sistema storico-memoriale e naturalistico

- Patrimonio dell'UNESCO
- Centro Storico Monumentale (CSM)
- Riva Aemilia (R.S. - S.C.)
- Parchi storici e Riserve Naturali
- Ville Storiche

### Punti di interesse

- P.zze ospedaliere
- P.zze universitarie
- Edifici storico-architettonici
- Impianti ed. storico-architettonici

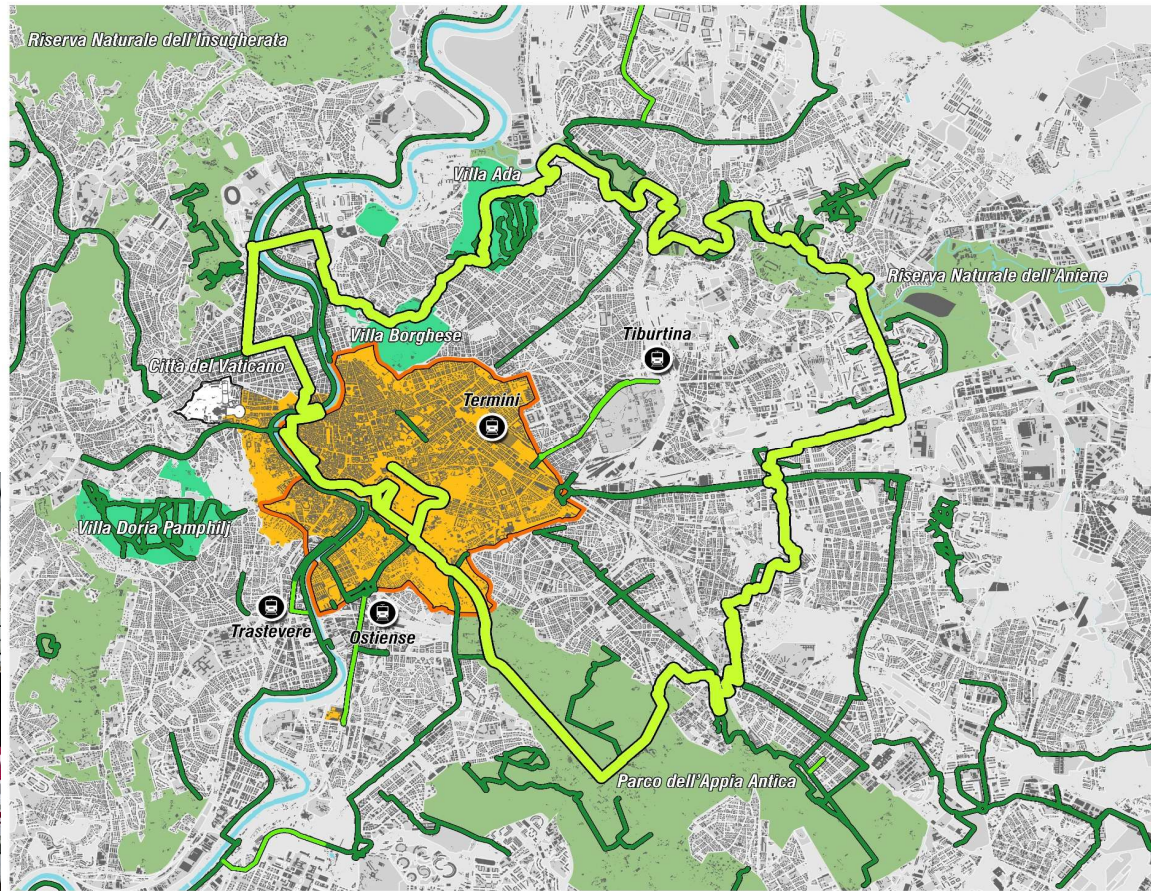


**Tramway Network extension in 2026 = 63,7 km**

# Cycling Plan



- Legenda**
- ▬ GRAB  
*Grande Raccordo Anulare delle Bici*
  - Piste ciclabili - attuazione**
    - ▬ Esistenti
    - ▬ Nel breve periodo
  - Il Sistema storico-naturalistico**
    - Parchi Istituiti e Riserve Naturali
    - Ville storiche e giardini configurati
    - Patrimonio UNESCO
    - ▬ Mura aureliane
  - ⊕ Stazioni internazionali
  - Aree urbanizzate













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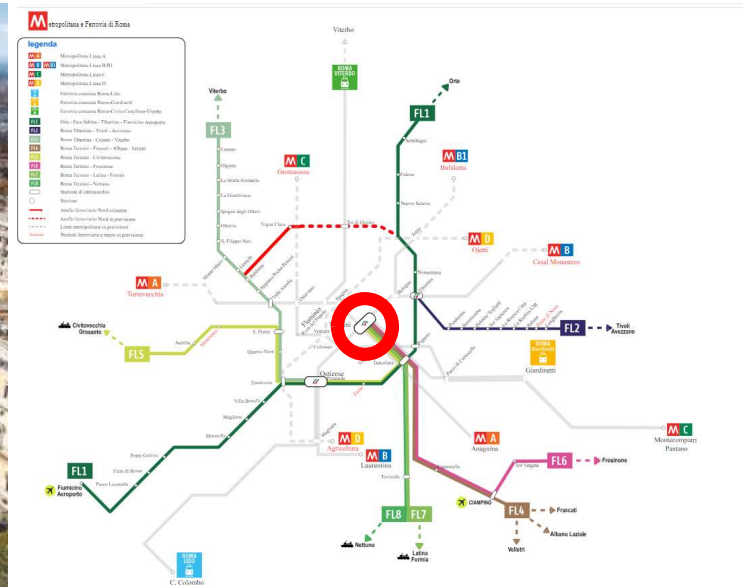
# Urban Logistic measures

| PRIORITY  | MEASURES   |  |
|---|------------|--|
|    | Measure 1  | Rationalisation and reinforcement of loading/unloading bays in the LTZ |
|    | Measure 2  | Review of LTZ Access Rules   |
|    | Measure 3  | Incentives for the purchase of low environmental impact vehicles       |
|    | Measure 4  | Pickup and Drop off Points (PUDO)                                      |
|    | Measure 5  | Cycle-Logistic Incentivation (Cargo-Bikes)                             |
|    | Measure 6  | Collaborative Logistics  |
|   | Measure 7  | Consultation&Dialogue with the Local Authority                         |
|  | Measure 8  | Monitoring of worksites  |
|  | Measure 9  | Micro Hubs (proximity logistics areas)                                 |
|  | Measure 10 | Urban Distribution Centres (UDC)                                       |



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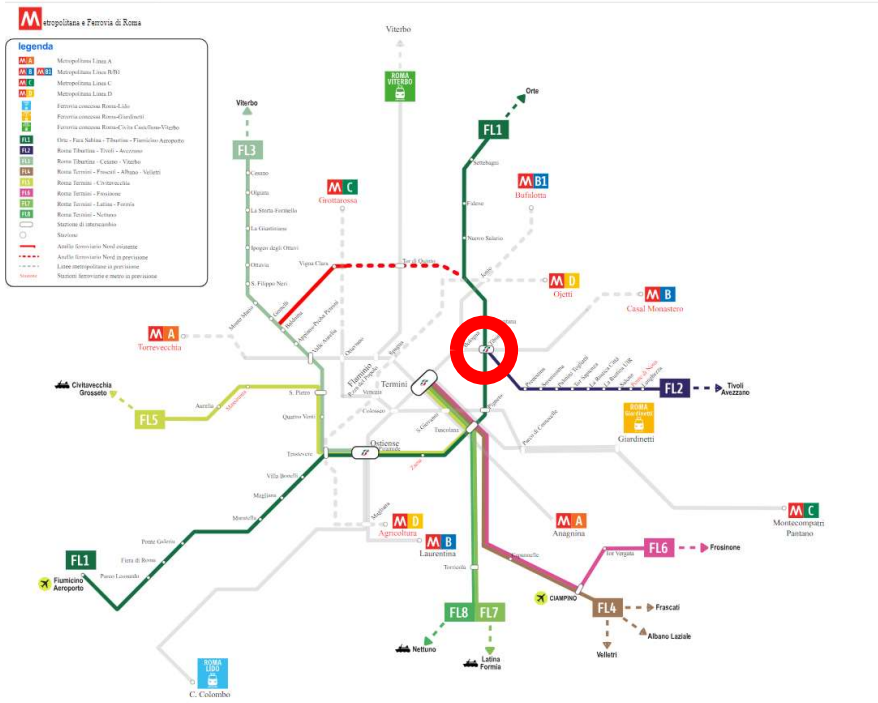
# Passenger Mobility hubs – Termini Station



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# Passenger Mobility hubs – Tiburtina Station



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# Tiburтина area: ex-ante



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# Tiburtina area: tram terminal



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# Activities in MOVE 21

Integrated approach for passenger and freight transport in urban nodes: 3 living labs (Oslo, Gothenburg, Hamburg) and 3 replicator cities (Munich, Rome, Bologna).

The goal for Rome:

- Zero emission zone with terminal to deliver the goods (developed from Oslo)
- Evaluation of technical guidelines for mobility hubs (Bologna)
- Mobility hub: PT, Sharing, Cargo Bike (Gothenburg)



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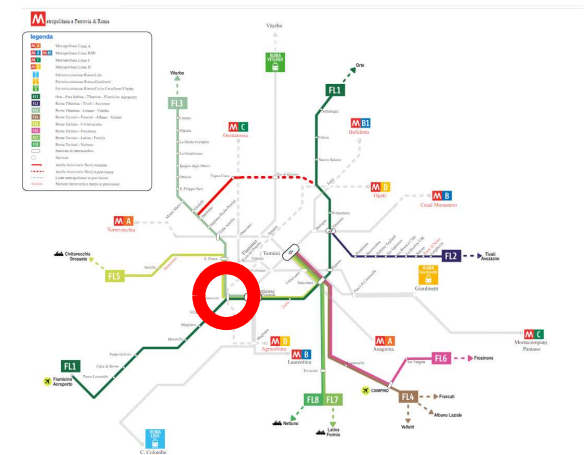




# Technical guidelines for Mobility Hubs

Guidelines for mobility hubs

- A summary document was drawn up in Italian based on the documentation produced by Bologna.
- We are thinking about how to reconcile what is written in the Bologna guidelines and what we have put in place in terms of planning in the Piazzale Flavio Biondo hub (the first example of a Mobility Hub in Rome with certain characteristics)



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# Passengers Mobility hubs –Trastevere Station



*Hub for passengers and logistics mobility*

- Central area dedicated to PT
- Special pathways to connect the station and PT stops
- Bike parking and car/bike sharing & recharging e-vehicles parking places
- Parking lots for loading and unloading goods
- Kiss & ride area



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# Cargo bike deliveries

## Park & bike node

- Pilot test in the San Paolo area with a small fleet of sharing cargo bikes
- involve supermarkets and retailers in the area to encourage delivery by cargo bike



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# Logistic Living Lab: open discussion

- Permanent working environment on city logistics
- Continuous involvement of public and private stakeholders
- Co-create, test and implement effective and sustainable solutions in line with SUMP (SULP)
- More info: <http://www.trelab.it/living-lab/>



TRANSPORT  
RESEARCH  
LAB

ROMA

mobilità  
ROMA



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