



Rethinking how we move

Safer Streets, Smarter Cities: Evaluating Road Safety in REALLOCATE

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28/03/25



Welcome & Agenda

- Today's agenda:
 - About the project
 - Key facts and the cities
 - Road safety in REALLOCATE
 - Evaluation methods and tools
 - Highlights from some of the pilot cities
 - Lesson learnt so far & ways forward
 - Q & A





About REALLOCATE

REALLOCATE transforms streets into inclusive, green, safe and future-proof urban spaces, where communities live and thrive.



The project enables researchers, mobility experts, urban planners and local citizens to collectively re-imagine our cities and redesign how we move from one place to another.



key facts

1 May 2023 - 30 April 2027

Mission project & CIVITAS project

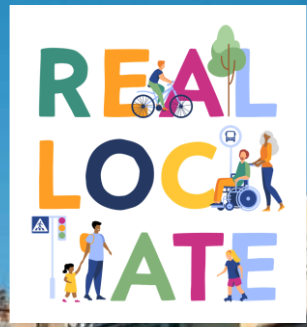
Coordinator: University College Dublin

Call: HORIZON-MISS-2022-CIT-01

37 partners

Budget: EUR 12,690,025





The Pilots

Safe & Sustainable Mobility Labs

Cities are piloting two interventions, while Twin Cities are piloting one intervention.

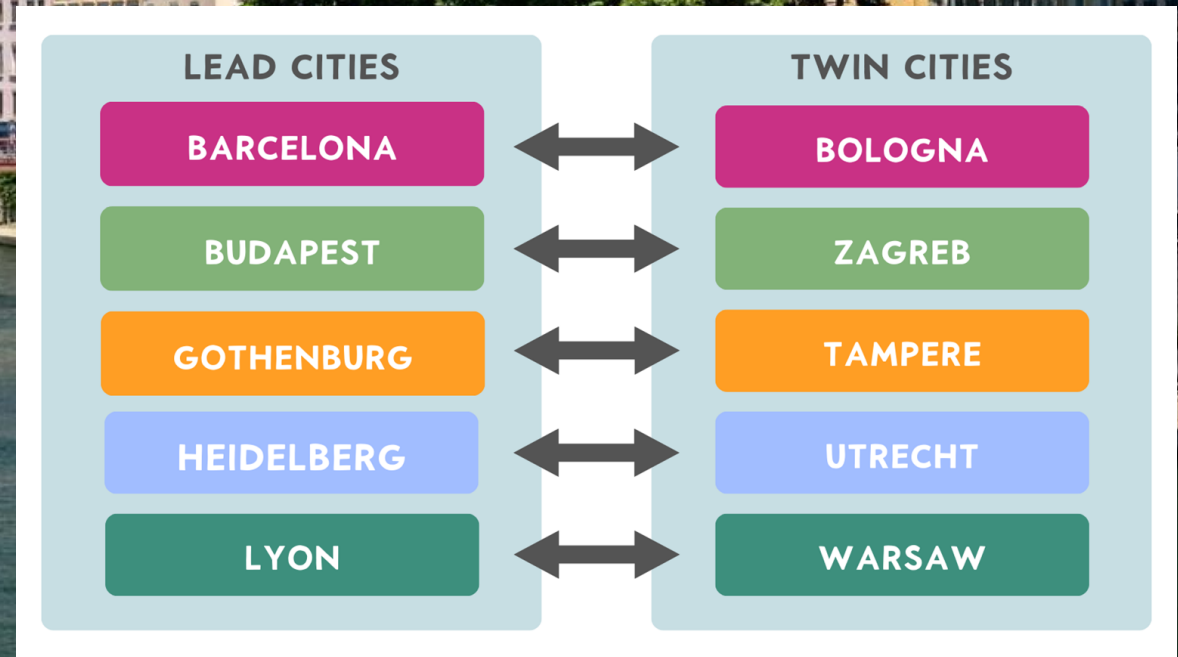
Piloting mobility solutions focusses on co-designing and co-developing technologies and interventions, promoting a modal shift towards more active travel.



Twining - Lead & Twin Cities

Each Lead City is twinned with a Twin City.

The cities closely follow each others' activities and collaborate to foster knowledge transfer.





replication

Cascade Cities

REALLOCATE is scaling up its impact by engaging with 11 Cascade Cities. They will test the replication packages, by creating their own unique implementation plans and replicating one of REALLOCATE's mobility measures.



The cascade Cities will participate in capacity building activities and receive guidance from technical experts.



Project Cities





Thematic clusters

CENTRAL AREAS
TRAFFIC
REORGANISATION

GOTHENBURG 2
ZAGREB 1

PERIURBAN
TRAFFIC
REORGANISATION

GOTHENBURG 1
HEIDELBERG 1
BUDAPEST 2

TACTICAL SPACE
REALLOCATION

HEIDELBERG 2
BUDAPEST 1
BARCELONA 2

SCHOOLS SAFETY
PROOFING

LYON 2
UTRECHT 1
WARSAW 1
BOLOGNA 1

HI-TECH SAFETY
SOLUTIONS

LYON 1
BARCELONA 1
TAMPERE 1

Thematic expertise

- SUMP & space reallocation
- Citizen empowering planning
- Urban design & traffic calming
- Transport economics & business models
- Pedestrians & inclusive design
- Transformative governance
- Cycling policy
- Nature-based street interventions
- Urban road safety & safety auditing
- Modelling & AI
- Digital tools & new mobility services
- Mobility & innovation management
- Behaviour & choice design
- Circularity lifecycle & carbon assessment



Methods

For capacity building and knowledge exchange towards pilot development



Peer-review visits



Mentoring sessions



Technical webinars

Work shadowing

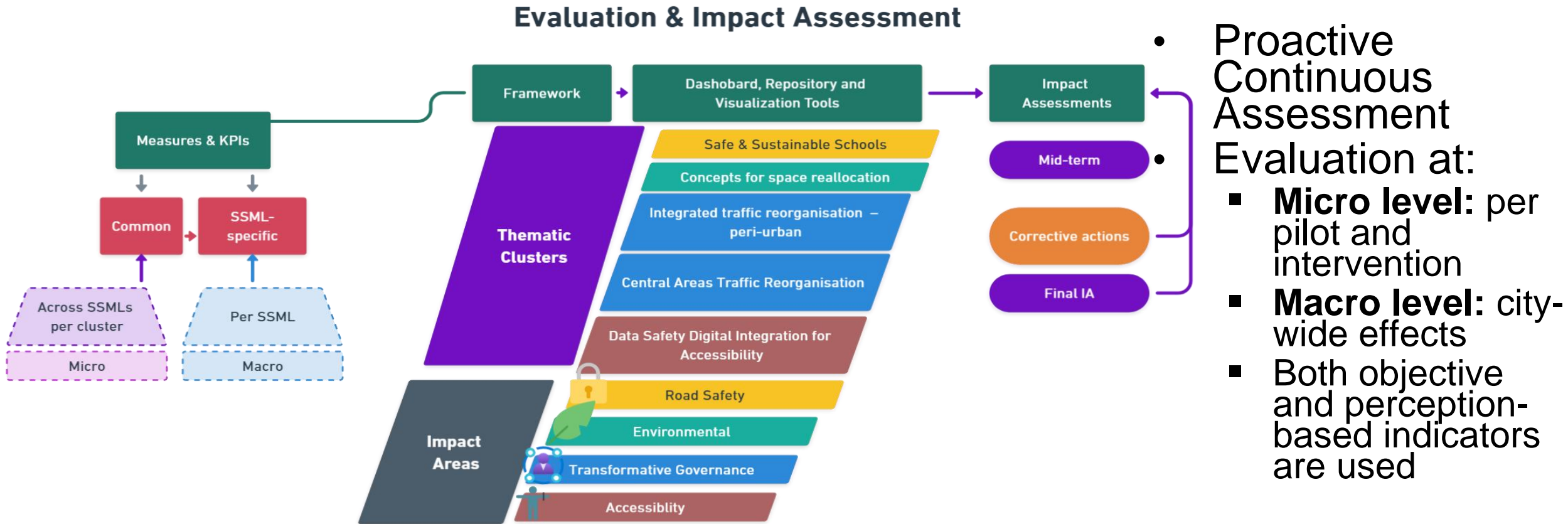
Study visits

Knowledge exchange webinars





The REALLOCATE Evaluation Approach





Why Road Safety in REALLOCATE?

- Over 20,000 road fatalities annually in the EU
- 70% occur in urban areas – mostly involving VRUs
- Safety remains a barrier to active mobility uptake
- REALLOCATE tackles this by rebalancing space for people, not just car





Road Safety KPIs in REALLOCATE

- **KPI #1:** Increase in active modes
- **KPI #2:** Pedestrian & disabled comfort
- **KPI #4:** VRU interaction improvements
- **KPI #5:** Reallocation of space
- **KPI #9:** Public acceptance





Pilot Evaluation Logic

- What we measure:
 - Safety outcomes (crashes, near-misses)
 - Safety perception (fear, comfort)
 - Infrastructure changes (speed, visibility)
 - Triangulating data to assess impact



From Traditional Safety to Safe System

- **Traditional:** reactive, human-blame-oriented
- **Safe System:** proactive, shared responsibility
- **Vision Zero:** no loss of life is acceptable
- Focus on prevention and resilience instead of blame

- Human error is inevitable; fatalities are not
- Shared responsibility across the mobility system
- Six pillars adapted to cities: roads, speeds, vehicles, users, post-crash care, governance
- CEREMA: Operationalised via self-assessment framework with 26 indicators
- Used for baseline and final assessments across 10 cities



Vision Zero in Urban Context

- **DEKRA:** 221 EU cities had 0 fatalities in at least one year since 2011
- **Factors include:** income, modal share, local policies, investment
- We need to expand from intersections to whole neighbourhoods

- Urban road safety audits and crash data processing
- Combines EU datasets with local accident statistics
- Assesses planned interventions for safety relevance
- Strong pilot coverage; expansion to smaller pilots in progress
- Final goal: turn data into concrete street-level solutions



Perceived Safety & How We Measure It

- Collected via surveys, walk audits, mapping exercises
- Special focus on youth and vulnerable users
- Tools: drawings, Minecraft, co-creation feedback
- Tracks behavioural change as indirect evidence
- Complements objective data and guides interventions





Overview of Data Sources & Tools

- Walk audits (children, parents, experts)
- Accident data analysis (pre/post)
- AI-driven video analysis of near-misses
- Surveys, mapping, Minecraft
- Sidewalk scanners
- Safe System questionnaire





Co-creation = Key to Safe Design

- **Engaging users:** children, elderly, people with disabilities
- Local knowledge enriches safety design
- Helps anticipate behavioural issues early





Lyon – Safer School Streets

- Over 110 school zones are/ to be redesigned
- Children + parents co-created/ -ing frescos, plans
- Strong support enabled quick roll-out
- Measured decrease in car presence & increased child safety perception





Barcelona – Shared Spaces, Shared Safety

- Conflicts between pedestrians, cyclists & MMVs addressed
- Workshops with urban police, accessibility experts, local orgs
- Guidelines to be/ developed for design of new shared spaces
- Open Streets acts as testbed





Warsaw – Citizen Science for Safer Schools

- Teenagers lead safety walks in school surroundings
- “School Street” design piloted near 2 schools
- Walkability, parking, and traffic flow restructured
- High replication potential in city’s programme





Tampere – AI for Near-Miss Detection

- Pilot: 2 schools, crossings
- AI algorithm tracks near-misses via traffic camera feeds
- Citizen input + school campaigns = targeted interventions





Gothenburg – Event District Reimagined

- Selected area perceived unsafe, multi-modal area
- Digital twin used to simulate safety scenarios
- Nudging strategies tested to shift modal choices
- Parking converted to drop-off zones





Zagreb – Intersection Transformation

- 5000+ vehicles/hour + heavy pedestrian flow
- Redesign for VRU priority
- UAV video, microsimulation, sidewalk scanner used to inform plan





What Works: Enablers of Success

- Political will & leadership
- Linking safety to climate & public health
- Citizen trust through transparency





From Local to Scalable

- Use of real-world pilots to inspire national replication
- Safety KPIs embedded in wider mobility policies
- Results to be shared via dashboards, policy briefs, and Climate City Contracts (CCCs)





Safer Streets, Smarter Cities

- Road safety is the foundation of climate-neutral, inclusive cities
- REALLOCATE shows safety must be systemic, data-driven & co-created
- We need courage to reclaim public space for people



partners



REAL

LOC

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THANK YOU!

CONTACT US



reallocate-project



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This project has received funding from the European Union's Horizon Europe programme under grant agreement No. 101103924



REALLOCATE is a project under the CIVITAS Initiative, an EU-funded programme working to make sustainable and smart mobility a reality for all, and contributes to the goals of the EU Mission Climate-Neutral and Smart Cities.