

Cross-Border Cooperation in Urban Areas To Improve Environmental Conditions Through The Use Of Intelligent Transport Systems

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The future of (micro)mobility: How do we get there?



Dr Suzanne Maas SMILE conference, Nicosia, Cyprus 8 December 2022



What is micromobility?

- Small, lightweight vehicles
- Generally operating at speeds <25km/h
- Driven by individual users
- Suitable for short trips, including first and last mile
- Examples: bicycles, e-bikes, e-kickscooters, eskateboards, shared bicycles, shared scooters

Some fast facts:



Majority of urban trips are <5km

- A 5 km trip:
- on foot: ~60 min.
- by bicycle: ~20 min.
- by e-bicycle: ~12 min.
- **by car:** anything between 10 min. to an hour, or more (?)

What benefits can micromobility bring?

Reduced space use

Reduced carbon emissions

Healthier lifestyles

Less local air pollution

Connection with bus

Fast, reliable travel time

Increased liveability

Safer roads

Sustainable mobility: a shift to micromobility?

Avoid the need for travelling, by reducing trip length through mixed and compact urban planning, or by substituting trips, for example through online communications or video conferencing.

Shift to low-carbon mobility modes, such as active transport, public transport and shared mobility modes.

IMPROVE

SHIFT

Improve vehicle and fuel technologies, by promoting electric, hybrid or hydrogen vehicles in place of those using petrol and diesel fuels.

How to promote a shift to micromobility?

Effective change in mobility behaviour only occurs when there is a **combination of 'carrots', 'sticks' & 'sermons'**

'Carrots'	'Sticks'	'Sermons'
Positive and negative	Rules & regulations,	Education and
incentives, such as:	such as:	information, such as:
Subsidies	 Land use planning 	 Awareness campaigns
• Tax relief	Infrastructure	 Service provision
Road taxes	 Parking management 	 Educational activities
Paid parking	Low emission zones	Public events
Congestion charging	Emission standards	 Promotional activities
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How to promote micromobility?

Make it safe & direct:

- Road safety is the biggest barrier for vulnerable road users.
- Create safe infrastructure: segregated paths where vehicle speed and mass differences are great (>30km/h); traffic calming and shared spaces where vulnerable road users can be prioritised.
- Restrict private car access and reduce vehicle speeds; prioritise micromobility traffic flows through solutions such as 'filtered permeability' and 'contraflows'.

Make it attractive & cool:

- Exposure and experience are key to forming new mobility habits.
- Organise educational and promotional activities, such as 'safe routes to school', mobility challenges, 'cycle/scoot to work' schemes, cycling events, etc.
- Create awareness raising campaigns on the benefits of sustainable mobility, green travel and the need to shift away from private car use.

A micromobility plan for Cyprus?

Governance

- create coherence with existing urban and transport planning policies (e.g. SUMP documents), revising and aligning these where necessary, and coordinate between departments
- ensure there is real public participation, including the opportunity for users and potential users of micromobility to partake in discussions and decisions

Infrastructure

- create a safe and direct infrastructure network that connects key origins and destinations (i.e. residential, commercial, schools/universities, public transport hubs)
- adopt design standards and guidelines for infrastructure to ensure safety, quality and cohesion

Legislation

revise mandatory helmet law, which discourages cycling; instead consider adopting a legal framework to protect vulnerable road users, e.g. presumed liability

Measures

- include an action plan with measures, with timeframes, targets and indicators
- monitor and evaluate frequently to adjust approach and increase / improve targets

Thank you

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