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The **REMEDIO** project

Regenerated mixed-use MED urban communities congested through innovative low carbon Mobility solutions

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REMEDIO REgenerating mixed-use MED urban communities congested by traffic through Innovative low carbon mobility sOlutions



Would you like to live in a Horizontal Condominium?

In a Horizontal Condominium citizens, local public authorities, small and larger business enterprises, providers of public transport...



all toghether participate for a common goal:

a better quality of life in high congested roads

by solution for the logistic processes of freight and services by choosing cycling and public transport for small and medium urban journeys by an urban renewal toward a more sustainable city









#1

GOVERNANCE PILLAR

a new participative governance model for roads of middle sized Mediterranean cities, based on "horizontal condominium"

Strategy

Giving identity, visibility and voice to urban communities congested by traffic



















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Pilot area Thessaloniki, Greece





Major Development Agency Thessaloniki S.A. &



Aristotle University of Thessaloniki

#2 HARD PILLAR

small scale investments as pilot measures fostering urban low carbon transport

Type of intervention

Redesign/upgrade of an urban axis based on the principles of SUMP with a high-participatory approach



















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Pilot area Thessaloniki, Greece



Type of intervention

Redesign/upgrade of an urban axis based on the principles of SUMP with a high-participatory approach

















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Pilot area Thessaloniki, Greece

Current situation of the axis Proposed redesign

























Agenzia Regionale per la Prevenzione e Protezione Ambientale del Veneto Project co-financed by the European Regional Development Fund

câmara municipal

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THESSALONIKI S.A.



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Thessaloniki



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#3

SOFT PILLAR

an Integrated Modelling Tool (IMT) to evaluate low carbon mobility actions to be implemented in highly congested roads

Strategy

Assessment of urban solutions for congested roads

Integrated Modelling Tool (IMT)



















Integrated Modelling Tool #3 Soft Pillar

Customized modelling tool to assess the environmental-related performance of low carbon mobility actions at local street level

A Decision Making Tool

IMT integrates the following Modules for the estimation of traffic related impacts: MODULE DEVELOPER LEVEL

- Pollutant Emissions
- **Carbon Footprint**
- Atmospheric Dispersion
- **Energy Consumption**
- Traffic Noise

TECNICO

SROA

Health Events and related Costs

















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Integrated Modelling Tool Conceptual Modelling Approach





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Integrated Modelling Tool Environmental Assessment of Mobility

Actions in Thessaloniki: Redesign/upgrade of an urban axis based on the principles of SUMP

> -10% passenger cars and motorcycles traffic volume with respect to the base case

> > Scenario

















Integrated Modelling Tool Environmental Assessment of Mobility

Actions in Thessaloniki: Redesign/upgrade of an urban axis based on the principles of SUMP Impacts on Energy, Emissions, Air Quality

Environmental Variable	Reduction
Fuel Consumption	18%
CO ₂ , HC Emissions	18%
NO _x Emissions	10%
PM _x Emissions	15%



Pollutant	Max Concentration [*] Reduction
PM _x	12%
NO _x	9%
	*spatially unpaired





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Integrated Modelling Tool Environmental Assessment of Mobility

Actions in Thessaloniki: Redesign/upgrade of an urban axis based on the principles of SUMP **Impacts on Health and Related Costs**



What if... daily concentrations of NO₂, PM_{10} , $PM_{2.5}$ were reduced by 10% due to the implementation of measures to mitigate congestion?

- ☆ ~ 1.5% reduction of the median of:
- **Mortality from Respiratory Causes**
- ✤ ~ 0.5 % reduction of the median of:
- Hospitalization costs for Respiratory Causes
- **Hospitalization costs for Cardiac Causes**



















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REMEDIO Take home message

Further steps From planning to implementation & Added value of the experience gained

1. Efforts for the proposal integration in the Thessaloniki SUMP











ΣΒΔΚ Thessaloniki Sustainable Urban Mobility Plan (SUMP)





SBAK Thessaloniki Sustainable Urban





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REMEDIO Take home message

Further steps From planning to implementation & Added value of the experience gained

2. MoUs for further collaboration with i. the involved relevant authorities and ii. social actors



















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REMEDIO Take home message

Further steps From planning to implementation & Added value of the experience gained

3. Investigation for financing of the further studies and the implementation



ΠΕΡΙΦΕΡΕΙΑ ΚΕΝΤΡΙΚΗΣ ΜΑΚΕΔΟΝΙΑΣ ΕΙΔΙΚΗ ΥΠΗΡΕΣΙΑ ΔΙΑΧΕΙΡΙΣΗΣ Ε.Π. Περιφέρειας Καντρικής Μαικεδονίας

Αποτύπωση προτάσεων Φορέων Πολιτικής ενόψει του νέου αναπτυξιακού σχεδιασμού της Περιφέρειας Κεντρικής Μακεδονίας για την περίοδο 2021-2027

ΕΡΓΟ 2: Ολοκληρωμένος ανασχεδιασμός του Ανατολικού Οριζόντιου Άξονα της Θεσσαλονίκης: Οδοί Εθνικής Αντιστάσεως – Βασιλίσσης Όλγας – Βασιλέως Γεωργίου – Μανόλη Ανδρόνικου και προώθηση λόσεων χαμηλού ανθρακικού αποτυπώματος

- Κυκλοφοριακές ρυθμίσεις με έμφαση στα ΜΜΜ, διευθέτηση σύγχρονης αποκλειστικής λωρίδας λεωφορείων, διευθέτηση στάθμευσης και ένταξη ποδηλατοδρόμοι
- Ανάπλαση δημόσιου χώρου με αύξηση παρόδιου αστικού πρασίνου, αναβάθμιση πεζοδρομίων και βελτίωση αστικού εξοπλισμού

 Σχεδιασμός ένταξης καινοτόμων τεχνολογιών (εφαρμογές και ουστήματα TΠΕ) για ενημέρωση πολιτών, υποστήριξη ομαλής ροής κυκλοφορίας και πρόληψη παραβατικότητας

ανασχεδιασμός του έξονα μελετήθηκε, σε ατρατηγικό etitinέδο. Στάρος, στη βάση των αρχών του Σχεδιασμού Βιώσμης Αστικής Κνητικότητας, ήταν ή πρότοση πανασχεδιασμού του άξονα για αναδειχθεί μέσα από διαδικασίες ευριείας διαβούλευσης με φορείς και αρχές, άμισα ή έμμεσα εμπλεκόμενους στη διαχείριση και λειτουργία ου άξονα, καθώς και με το εωρί κοινό, ώστε να επιλεγεί η λόση που θα έχει την ευρίστερη δινατή απόδοχή.

νός προσανατολισμός με το ΣΒΑΚ Θεσσαλονίκης και ανάγκη ένταξης της πρότασης σε αυτό













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REMEDIO Take home message

Further steps From planning to implementation & Added value of the experience gained

4. Transfer of the gained experience for the redesign/upgrade of the axis EPO2



















REMEDIO Take home message

A local human ecosystem of knowledge

Citizens, users, experts, stakeholders, organisations, local authorities

Collective intelligence and participatory actions

4P effect: Place – People – Participatory Policy





Thank you for your attention!



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Territorial partners

- Municipality of Treviso
- Major Development Agency Thessaloniki S.A.
- City of Split
- Municipality of Loures

Scientific Institutions

- Environmental Agency of Veneto Region
- Aristotle University of Thessaloniki
- Instituto Superior Técnico of University of Lisbon
- University of Seville













