"The pan-European Master Plan for Cycling Promotion (PEMP) - A framework for starter, climber and champion countries"



### The Role of UNECE Sustainable Transport Division

Mr. Konstantinos Alexopoulos Secretary Sustainable Transport Division United Nations ECE









Contract for the International Carriage of Goods by Road













International Carriage of Dangerous Goods by Road



European Code for Inland Waterways



Harmonization of Frontier Controls of Goods



Convention on Road Signs and Signals

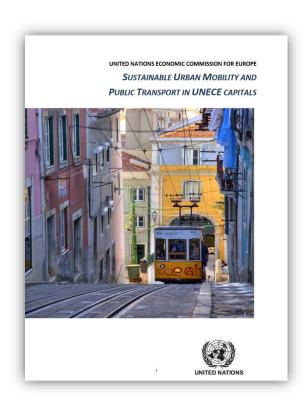


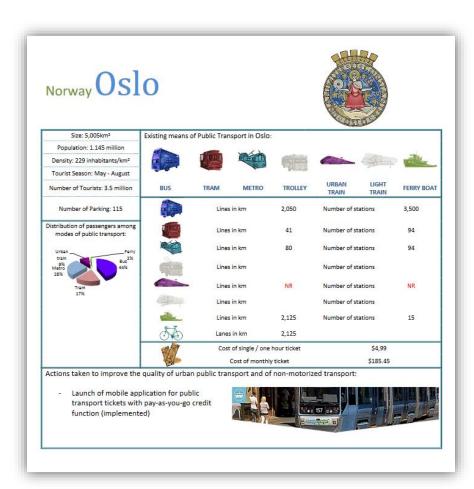
Infrastructure Agreements for roads (AGR), Rail (AGC), Inland Water Transport (AGN), Intermodal Transport (AGTC)



Work of Crews of Vehicles engaged in International Road Transport / Digital Tachograph

### Sustainable urban mobility and public transport







### Sustainable urban mobility and public transport pillars



### **Transport Infrastructure Master Plans**





European Agreement on Main International Traffic Arteries (AGR), of 15 November 1975

European Agreement on Main International Railway Lines (AGC), of 31 May 1985

European Agreement on Important International Combined Transport Lines and Related Installations (AGTC), of 1 February 1991

European Agreement on Main Inland Waterways of International Importance (AGN), of 19 January 1996





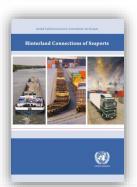
















### Methodology on the infrastructure module of the Cycling Master Plan

(International/City

#### Review of related Work

103K 1.1	minoduction	ιυ	Cycling	(IIIICIII	iational/ City	ievei)	
characteristi	cs, benefits and cha	alleng	es				
Task 1.2	International	and	Citv	level	Cycling	techni	ical

Task 1.2 International and City level Cycling technical specifications/standards, respective decisions and guidelines for their implementation

Task 1.3 Summary of the existing International and City level Cycling lanes technical, operational and maintenance parameters

Task 1.4 Collection and review of existing relevant studies, assessments and works

Task 1.5 Introduction of the existing and future Cycling Lanes networks and plans in International and City levels

Task 1.6 European Union cycling funded projects and initiatives and its impact in the ECE region

### Cycling Lanes status and needs in the UNECE member Countries / Cities

Task 3.1	Collection of necessary information and data				
Task 3.2	Analysis and control of information obtained				
Task 3.3	Approved or proposed national legislation and standards				
Task 3.4	Cycling Lanes links in operation, under construction, planne				
(accompanied b	y maps)				

Task 3.5 Pre-feasibility, feasibility and alignment studies (under elaboration, approved)

Task 3.6 Technical parameters (speed, gradient, stations, safety measures etc.)

Task 3.7 Existing and future traffic flows

Task 3.8 Information and communication systems at present, in the

future

Task 3.9 Agreements on Cycling Lanes with neighboring countries

Task 3.10 Construction costs and timing, maintenance and operation

costs Task 3.11

Financial sources – available and proposed

### Methodology and main assumptions for the work

Task 2.1 Review and identification of the necessary parameters and assumptions for the work:

- a) Social, environmental and safety aspects;
- Interoperability / Intermodality between Cycling and Public transport modes;
- c) International connections, interrelations and dynamism towards neighbouring regions;

Task 2.2 Transport demand and traffic forecasting, development scenarios;

Task 2.3 Elaboration and distribution of the questionnaires to the UNECE countries / Capitals (or major cities);

Task 2.4 Analysis and processing of the returned questionnaires:

# Elaboration of Environmental – Health benefits analysis by using existing tools (HEAT - FoFITS) from Cycling development

Task 4.1 Review of existing tools requirements and preparation of appropriate questionnaires in order to facilitate data collection;

Task 4.2 Identification of the main parameters that these tools should include and analyse

Task 4.3 Use of the tools based on data received for International and Cities level;

Task 4.4 Analysis of case studies the results of which will be included at the final report

### Methodology on the infrastructure module of the Cycling Master Plan

### Elaboration of pan-European master plan for cycling at International level –

Task 5.1	Economic and social characteristics as well as economic growth
analysis in ECE	egion;

Task 5.2 Design speeds, upgrading of existing lanes/building of new lanes, types of operation (types of bikes);

Task 5.3 Construction, maintenance and operation average unit costs (new links, rehabilitation);

Task 5.4 Information, communication and signaling systems as well as other safety features/technical parameters;

Task 5.5 Maintenance, operation and management;

Task 5.6 Costs and benefits/revenues, economic and risk analyses, social and environmental impacts;

Task 5.7 International Network of Cycling Lanes including its connections to neighboring countries and its position vis-à-vis the EU transport core network and the ECE AGR agreement;

Task 5.8 Alignment of individual corridors/links;

Task 5.9 Construction schedule, priorities, phasing, Master Plan time limits (2030 and 2050);

Task 5.10 Construction, maintenance and operation costs;

Task 5.11 GIS maps of International Network of Cycling Lanes in the individual member Countries and in the whole ECE region;

Task 5.12 Identification of interconnections with other transport components (railways, sea ports-inland ports-airports);

Task 5.13 Identification of possible connections and extensions to other regions (East Asia etc.)

Task 5.14 Identification of possible missing links, border crossings bottlenecks and of other inefficiencies along the ECE region.

## Elaboration of pan-European master plan for cycling at Cities level –

Task 6.1 Economic and social characteristics as well as economic/population growth analysis for each city;

Task 6.2 Basic design principles – size of cities/agglomerations, bikes parking spaces, distances from train stations/ buses-trams stops, their design, equipment and services;

Task 6.3 Design speeds, upgrading of existing City lanes/building of new lanes, types of operation (types of bikes);

Task 6.4 Construction, maintenance and operation average unit costs (new links, rehabilitation);

Task 6.5 Information, communication and signaling systems as well as other safety features/technical parameters;

Task 6.6 Maintenance, operation and management;

Task 6.7 Costs and benefits/revenues, economic and risk analyses, social and environmental impacts:

Task 6.8 Cities' Networks of Cycling Lanes including its connections to Cities public transport networks;

Task 6.9 Alignment of individual lanes/links;

Task 6.10 Construction schedule, priorities, phasing, Master Plan time limits (2030 and 2050);

Task 6.11 Construction, maintenance and operation costs;

Task 6.12 GIS maps of Cities' Networks of Cycling Lanes for each City;

Task 6.13 Identification of interconnections with public transport components (buses, trams, light trains, underground);

Task 6.14 Identification of connections with the International Network of Cycling Lanes;

Task 6.15 Identification of possible missing links along Cities Cycling networks or with public transport networks.



### Methodology on the infrastructure module of the Cycling Master Plan

### Addressing funding questions

Task 7.1 Estimate of budget for the implementation of both Cycling Lanes networks;

Task 7.2 Possibilities of stage construction;

Task 7.3 Definition on a macro-scale of the necessary technical and institutional actions for assisting the implementation of the proposed Cycling Lanes networks :

Task 7.4 Estimate of financial resources available and of potential

revenues;

Task 7.5 Possibilities and potential sources of funding the proposed Cycling Lanes networks including the EU grants and project bonds, PPP and BOT

schemes

Task 7.6 Remarks on the perspectives to construct the Cycling Lanes networks;

Conclusions/Recommendations – Public awareness actions and dissemination of results – Follow-up preparations

Task 8.1 Presentation of final report with conclusions and recommendations;

Task 8.2 Presentation of the pan-European Cycling Master Plan in International and Cities level;

Task 8.3 Publication of a project newsletter, brochures and a summary report, findings and conclusions;

Task 8.4 Organization of workshops to present the progress of the project and the final results;



Thank you...!