



Development and implementation of a monitoring and assessment tool for CO₂ emissions in inland transport to facilitate climate change mitigation (funded by UNDA)

- Duration: 3 years (January 2011 – December 2013)
- Leading agency: UNECE
- Implementing entities: ECA, ECLAC, ESCAP & ESCWA

Presentation at the CCNR Workshop on Inland Navigation CO₂ Emissions held in Strasbourg on 12 April 2011

by Dr.-Ing. Romain HUBERT, UNECE Transport Division,
Vehicle Regulations and Transport Innovations

12 April 2011

UNECE Transport Division



1



Objective and expected achievements

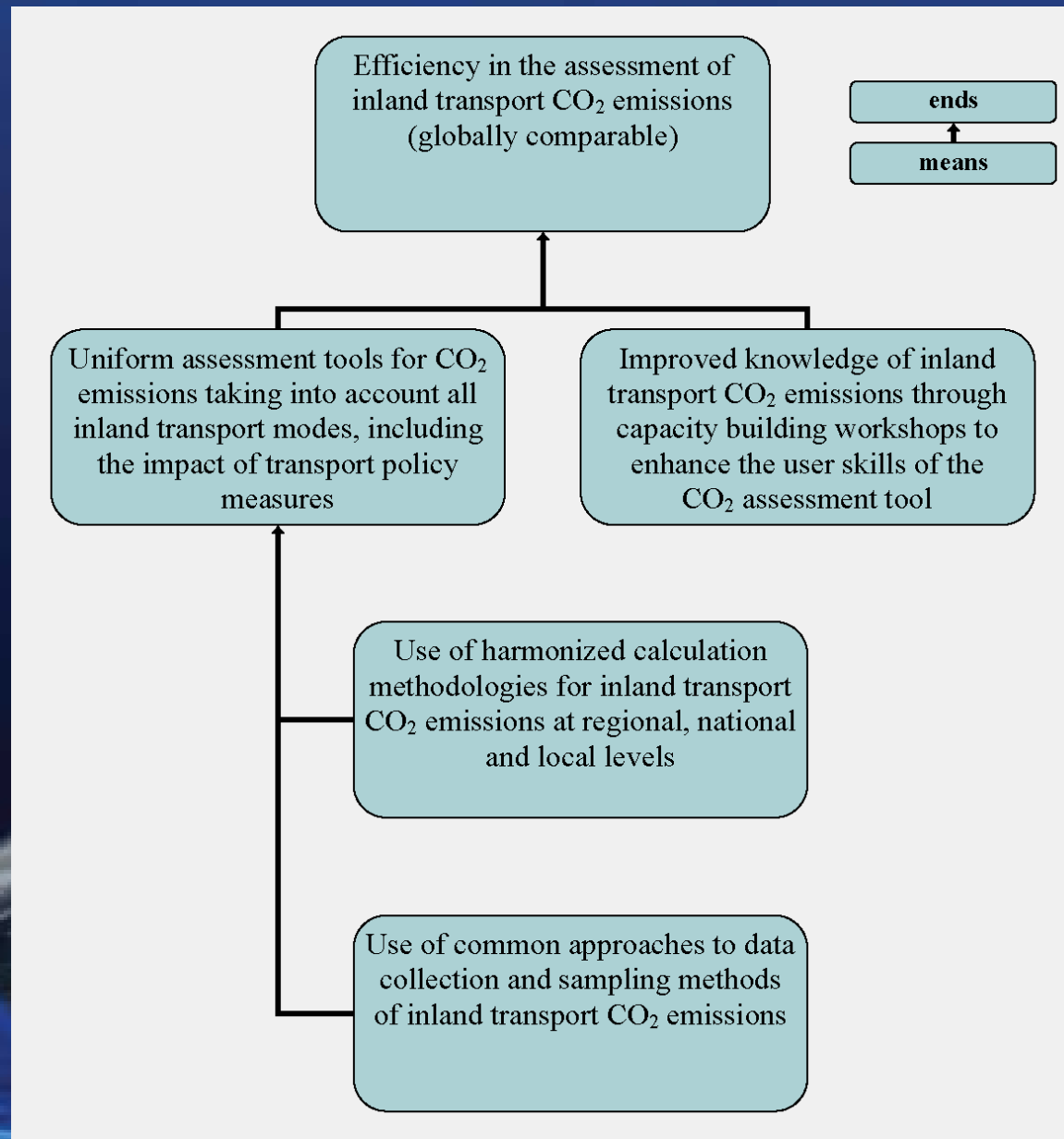
Objective:

To develop an information and analysis tool based on a uniform methodology for the evaluation of CO₂ emissions in the transport sector in order to enable all UN countries to optimize the use of energy sources in the transport sector, taking into consideration: road vehicle fleets, types of propulsion systems, transport infrastructure, sustainable energy sources, intermodal transport on railways & inland waterways and appropriate policy measures.

Expected Achievement:

Capacity building workshops in all UN RCs on inland transport CO₂ emissions and on how to use the powerful analysis tool in order to develop their future strategies for inland transport and to support their policy decisions.







Main development steps (1)

1 Step (2011):

- Preparation and distribution of the questionnaire on inland transport CO₂
- Evaluation of the replies to the questionnaire
- Drafting the global status report
- Review of existing emission assessment methodologies
- Drafting a recommendation on existing emission assessment methodologies

- Organization of an international emissions expert meeting (September 2011)
- Drafting the meeting report and selection of the most appropriate model(s)





Main development steps (2)

2 Step (2012):

- Development of the standard tool ForFITS for the assessment of CO₂ emissions
- Implementation, verification and validation of ForFITS
- Preparation of a user manual for the application of ForFITS

3 Step (2013):

- Piloting out ForFITS and its application
- Organization of capacity building workshops in all UN RCs
- Project evaluation





Cooperation with other institutions

1. Questionnaire on inland transport CO₂ emissions:
 - Reply to questionnaire send out by UNECE in the second quarter of 2011
 - Provide information on statistics, tools & methodologies, policy converters, etc.
2. International expert meeting (September 2011):
 - Contribute in the discussion on a methodology to assess CO₂ emissions
3. Once the new CO₂ assessment tool is established (end of 2012):
 - Assist in piloting out phase of ForFITS
 - Promote the tool to pave the way for the future inland transport system (ForFITS)





Thank you

Please send your email of interest and contributions to the:
UNDA Project manager at: romain.hubert@unece.org
UNDA Project assistant at: miquel.gangonells@unece.org

More information on the UNDA project is made available at:
http://www.unece.org/trans/theme_global_warm.html
http://www.unece.org/trans/theme_ForFITS.html

12 April 2011

UNECE Transport Division



7

ID	Task Name	Who	Start	Finish	2011												2012												2013											
					D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N
1	Development and implementation of a monitoring and assessment tool for CO2 emissions in inland transport including transport policy converter (F or FITS)	Consultant 1, Consultant 2, Consultant 3, Regional Commissions, GTA, stakeholders and external evaluator	Mon 10.01.11	Tue 31.12.11	[Gantt bar: 10.01.11 to 31.12.11]																																			
2	EAI-increased awareness of the cause-effect relationship between the different transport modes, energy and CO2 emissions based on internationally comparable information on inland transport CO2 emissions	Consultant 1, Consultant 2, Consultant 3, Regional Commissions, GTA and stakeholders	Mon 10.01.11	Fri 15.06.11	[Gantt bar: 10.01.11 to 15.06.11]																																			
3	(1.0) Launching of the UNDA project on Inland Transport CO2 emissions		Mon 10.01.11	Fri 10.03.11	[Gantt bar: 10.01.11 to 10.03.11]																																			
4	First contact with all Regional Commissions in order to make them aware of the project and to invite them to cooperate with it (video-conferences, information emailletter, ...)	Regional Commissions	Mon 10.01.11	Fri 26.01.11	[Task bar: 10.01.11 to 26.01.11]																																			
6	Review of the Terms of Reference for UNECE and other Regional Commissions as well as for the consultants and GTA	UNECE	Mon 17.01.11	Fri 11.02.11	[Task bar: 17.01.11 to 11.02.11]																																			
6	Administrative procedures (Preparation of the vacancy announcement for GTA and Consultant 1, engagement of both...)	UNECE	Mon 14.02.11	Fri 18.03.11	[Task bar: 14.02.11 to 18.03.11]																																			
7	Draft questionnaire (to be revised on a further stage)	UNECE	Mon 24.01.11	Fri 18.03.11	[Task bar: 24.01.11 to 18.03.11]																																			
8	List of existing models and its specifications (to be completed on a further stage)	UNECE	Mon 24.01.11	Fri 18.03.11	[Task bar: 24.01.11 to 18.03.11]																																			
9	Creation of the new website regarding the UNDA project	UNECE	Mon 17.01.11	Fri 18.02.11	[Task bar: 17.01.11 to 18.02.11]																																			
10	Collection, structuration and classification of the information (subjectively with all relevant files on the G disk, library, database with contact list, ...)	UNECE	Mon 24.01.11	Fri 18.03.11	[Task bar: 24.01.11 to 18.03.11]																																			
11	(1.1) Preparation of a global status report based on the regional surveys on inland transport CO2 emissions - surveys to be carried out by the Regional Commissions	Regional Commissions, GTA and Consultant 1	Mon 21.03.11	Fri 02.06.11	[Gantt bar: 21.03.11 to 02.06.11]																																			
12	Revision of the draft questionnaire and preparation of its final version (see TOR for consultant 1)	Consultant 1 and GTA	Mon 21.03.11	Fri 08.04.11	[Task bar: 21.03.11 to 08.04.11]																																			
13	Distribution of the questionnaire to all UN/Regional Commissions	GTA	Mon 11.04.11	Fri 15.04.11	[Task bar: 11.04.11 to 15.04.11]																																			
14	Regional survey (each UN/Regional Commission contacts different countries of its respective Region)	Regional Commissions	Mon 28.03.11	Fri 15.04.11	[Task bar: 28.03.11 to 15.04.11]																																			
15	Regional survey (Distribution of the questionnaire to the countries contacted, collection of the replies and send it back to GTA and Consultant 1)	Regional Commissions	Mon 18.04.11	Fri 06.05.11	[Task bar: 18.04.11 to 06.05.11]																																			
16	Set up of a global status report based on the replies to the questionnaires (see TOR for consultant 1)	GTA and Consultant 1	Mon 09.05.11	Fri 03.06.11	[Task bar: 09.05.11 to 03.06.11]																																			
17	(1.2) Review study of existing and under-research assessment models, methodologies for evaluation of transport CO2 emissions	Regional Commissions, GTA and Consultant 1	Mon 09.06.11	Fri 01.07.11	[Gantt bar: 09.06.11 to 01.07.11]																																			
18	On the basis of the data provided in the replies to the questionnaire: Complete the inventory of existing models and its specifications	Regional Commissions	Mon 08.05.11	Fri 03.08.11	[Task bar: 08.05.11 to 03.08.11]																																			
19	Analysis and ranking of the models which will be considered during the international expert meetings (see TOR for consultant 1)	GTA and Consultant 1	Mon 08.06.11	Fri 01.07.11	[Task bar: 08.06.11 to 01.07.11]																																			
20	(1.3) Development of recommendations on common approaches to data collection and sampling of inland transport CO2 emissions	GTA and Consultant 1	Mon 04.07.11	Fri 15.07.11	[Gantt bar: 04.07.11 to 15.07.11]																																			
21	On the basis of the analysis and the ranking prepared, development of recommendations on common approaches on data collection and sampling methods (see TOR for consultant 1)	GTA and Consultant 1	Mon 04.07.11	Fri 15.07.11	[Task bar: 04.07.11 to 15.07.11]																																			
22	(1.4) Organization of an International Experts' Meeting on the uniform Inland transport CO2 Assessment and Monitoring framework tool (F or FITS) with a transport policy converter	UN staff, stakeholders, Consultant 2, GTA	Mon 04.07.11	Fri 07.10.11	[Gantt bar: 04.07.11 to 07.10.11]																																			
23	Preparation of the invitations to the experts and distribution of it	GTA	Mon 04.07.11	Fri 29.07.11	[Task bar: 04.07.11 to 29.07.11]																																			
24	Collection and upload on the Division webpage the background documents (global status report (1.1), ranking list of the existing models (1.2) and recommendations on common approaches to data collection and sampling for each input parameter (1.3))	GTA	Mon 18.07.11	Fri 29.07.11	[Task bar: 18.07.11 to 29.07.11]																																			
25	International Experts' Meeting on the uniform inland transport CO2 Assessment and Monitoring framework tool (F or FITS) with a transport policy converter, to be held in conjunction with ORPE June 2011 session (see TOR for consultant 2)	Attendance: Consultant 2, stakeholders, UN staff	Mon 19.09.11	Tue 20.09.11	[Task bar: 19.09.11 to 20.09.11]																																			
26	Report on International Experts' Meeting	GTA	Wed 21.09.11	Fri 07.10.11	[Task bar: 21.09.11 to 07.10.11]																																			
27	(1.6) Development of the Inland Transport CO2 Assessment and Monitoring framework tool with transport policy converter (F or FITS)	Consultant 2 and GTA	Mon 26.09.11	Fri 23.12.11	[Gantt bar: 26.09.11 to 23.12.11]																																			
28	Development of the new model in order to materialize the specifications agreed by the experts during the International Experts' Meeting (see TOR for Consultant 2)	Consultant 2 and GTA	Mon 26.09.11	Fri 26.10.11	[Task bar: 26.09.11 to 26.10.11]																																			
29	Implementation of the new model (see TOR for Consultant 2)	Consultant 2 and GTA	Mon 31.10.11	Fri 11.11.11	[Task bar: 31.10.11 to 11.11.11]																																			
30	Verification of the new model (see TOR for Consultant 2)	Consultant 2 and GTA	Mon 14.11.11	Fri 25.11.11	[Task bar: 14.11.11 to 25.11.11]																																			
31	Validation of the new model (see TOR for Consultant 2)	Consultant 2 and GTA	Mon 28.11.11	Fri 23.12.11	[Task bar: 28.11.11 to 23.12.11]																																			
32	(1.6) Development and setting up of the web-based application of the framework tool and the policy converter	Consultant 3	Mon 28.11.11	Fri 09.03.12	[Gantt bar: 28.11.11 to 09.03.12]																																			
33	Familiarization with the new model (see TOR for Consultant 3)	Consultant 3	Mon 28.11.11	Fri 30.12.11	[Task bar: 28.11.11 to 30.12.11]																																			
34	Development and implementation of the new webpage (see TOR for Consultant 3)	Consultant 3	Mon 02.01.12	Fri 24.02.12	[Task bar: 02.01.12 to 24.02.12]																																			
35	Development of the user manual in English only (see TOR for Consultant 3)	Consultant 3	Mon 08.02.12	Fri 09.03.12	[Task bar: 08.02.12 to 09.03.12]																																			
36	(1.7) Rolling out (at least one per region) the inland transport CO2 monitoring and assessment tool with transport policy converter (F or FITS)	Consultant 3	Mon 02.01.12	Fri 15.06.12	[Gantt bar: 02.01.12 to 15.06.12]																																			

Project: UNDA Project Frame Time Date: Mon 31.01.11

Task Split Progress Milestone Summary Project Summary External Tasks External Milestone Deadline

Page 1

