SOUTH EAST EUROPE
Transnational Cooperation Programme

Programme co-funded by the EUROPEAN UNION

DONAUREGIONEN+

The Spatial Development Concept of Interregional Cooperation in the Danube Space

1st Cross-Danube-Strategy Workshop Report

Elaborated by ERDF PP4 and LP:
Nitra Self-governing Region
Ministry of Construction and Regional Development of the Slovak Republic

April 2010

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Table of contents

1. Introduction

The first Cross-Danube-Strategy Workshop of Donauregionen+ project was focused on the status of work in progress of WP6 pursued at the territory of Hungary and Slovakia, especially the example model of Komárno - Komárom, which will be the manual for all project partners. It was held in hotel Permon http://www.tatry.net/sk/permon/ in Podbanské.

2. Workshop preparation

The aim of the first Cross-Danube-Strategy Workshop was to discuss the current state of semi-finished example model of the Crossdanube Hungarian-Slovak territory and to provide the next steps of work for all partners involved. The Lead Partner also participated on this 1st CDS workshop as an examiner, and also for purpose of discuss other issues of the project.

3. Program of workshop

Date: 15th April 2010, Thursday, 14,00-17,00 hours - 1st Day
Place: Grand hotel PERMON, Slovak Republic, Podbanské

up to *13,30 –14,00* – Registration

1. *14,00 – 14,30 –* ***Opening and introduction***
   + Opening (welcome word, objectives and tasks of the workshop) ERDF PP4
   + Project status – description of the actual status of the WP6 - ERDF PP4
   + How the workshop will be organized – ERDF PP4

2. *14,30 – 15,00 –* ***Methodology background***
   + Presentation – (Principles of the methodology, reference to WP3, WP4, WP5) - ERDF PP1
   + Discussion

3. *15,00 – 15,30 –* ***Specification of the indicators*** **-** ERDF PP1
   + Presentation – ERDF PP1
   + Discussion

15,30 - 16,00 – Coffee break

4. *16,00 – 17,00 –* ***Crossdanube strategy development - example for region Komárno - Komárom***
   + Presentation – PP1 *Example of WP6 document- Komárno* (work up to now, results, experience)
   + Presentation – PP7 *Example of WP6 document* – Komárom (work up to now, results, experience)

+ Discussion

17,00 – End of the 1st Day

Date: 16th April 2010, Friday, 9,00-14,00 hours – 2nd Day
Place: Grand hotel PERMON, Slovak Republic, Podbanské,

8,45 – 9,00 – Registration

5. *09,00 – 10,30* – ***work in the groups – specification of the outputs,(text, tables…)***

10,30 – 11, 00 – Coffee break

6. *11,00 – 12,00* – ***organization of the progress in work***
   + Discussion

7. *12,00 – 12,30* –***Conclusions and recommendations***
   + Conclusion and recommendations of 1st CROSSDANUBE Workshop – ERDF PP1

8. *12,30 – 13,000* – ***Closing of 1st CROSSDANUBE Workshop***
   + Closing speech from organizer – ERDF PP4

13,00 –14,00 – Lunch Break

14,00 – End of the 1st Workshop

4. Course of Workshop and summary report

4.1. Opening and Project status

Opening and introduction

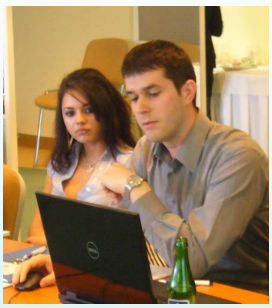
The first Cross-Danube-Strategy Workshop of Donauregionen+ project opened Martin Čaja, head of department of strategy of NSR and project manager of D+. He welcomed all the guests and wished them a creative and effective cooperation and discussion.

Project status

In this block Tatiana Beláková, representative of ERDF PP4, presented the working procedure, which was performed in WP6 on both sides, in Slovakia and also in Hungary. The works were carried out parallel organized on both sides and consult each other by processing regions, as well as all the preparatory activities and other upcoming activities necessary to the successful completion of the WP6.

4.2. Methodology of Crossdanube Strategy Development (CSD)

In this block Lubomir Macák, representative of ERDF PP1 presented the prepared processing methodology of WP6. Processing of CSD will proceed in the proposed steps. In the first step there will be define Crossdanube regions (CDR) on the basis of availability from regional centers - the main criterion will be the availability of time – transport to the target point. The second step will be defining the key players of regions and will be created working groups with experts of project on Crossdanube regions. In the third step there will be identify the relevant developing documents of the NUTS3 regions, which were subsequently identified the planned measures, activities and projects with transboundary impact. In the fourth step, there will be the determination of the impact of these activities and projects for the development of NUTS3 regions. Based on the results of impact assessment of activities and projects SWOT analysis will be create for each NUTS3 region within the Crossdanube regions - Identifying disparities between countries. In the fifth step, there will be the identification of Crossdanube scenarios and proposing new measures and projects with Crossdanube effect. The sixth step occurs evaluate the impact of these new measures on the value of indicators at the level of NUTS3.



The aim and task of WP6 is to evaluate and determine the degree of influence of Crossdanube links within Crossdanube region.

Within the CSD methodology the structure of a text document of WP6 was presented. The document has the analytical and strategic part and was discussed by the working group. The working group after incorporating the comments agreed with the proposed structure of the document.

4.3. Specification of the indicators WP6

Project data and GIS Transport Accessibility Model

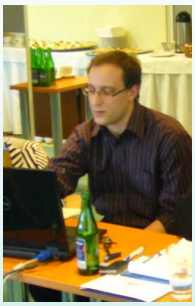
At this point Ales Baláži presented the model of availability for the region of NSGC as an example. Monitored data were distance from the center - the city in km and time availability within the time limits. In his presentation highlighted the need to correct topology of the roads - and of course of all the data. Input data must be oriented as a topological graph, which defines each section of road from node to node, length, speed and classification of roads. In this case, the model of availability may be calculated as the availability of time (in minutes), or distance-length (km).

4.4. Verification of the Crossdanube Strategy Development methodology

This unit has been presented two presentations.

In the **first presentation** representative of PP1, Pavol Petrík presented the example of document WP6 - case study Komárno.

This document aims to strengthen cooperation in Crossdanube regions, identify disparities, weaknesses and design program how to avoid them. The reference indicators are focused to general scheme of natural conditions, administrative structure and human resources, transport, technical infrastructure and economy. The important point was the identification of relevant documents at the national, regional and local level. By processing of these documents, we are able to identify the impact of each measure on the indicators and thus the size of cross-border linkages, develop a SWOT analysis and strategy development process.



The **second presentation** gave Márton Lendvay. He highlighted to define the border and Crossdanube growth poles for regional importance. An important point is to determine the core areas and to detect potential of these areas. Like Mr. Petrík described working procedure of investigational region and finally pointed out the following steps: development of the European group of territorial cooperation, new bridges, a cluster of entrepreneurs, cooperation in tourism management, the inclusion of the measures proposed in local plans, joint research projects.

4.5. WP6 – Proposal of the further development of the Crossdanube strategy development methodology

In this thematic block participants of the workshop were divided into two groups. The first group represented by each partner worked on the structure of a text document of WP6. Working group elaborated that document in detail

and incorporated comments and suggestions. They agreed with the proposal that the analytical part will be based on WP4 and WP6 indicators are the same as in WP5. ERDF PP1 develops guidance on how to process the document WP6.

The second working group was given the proposal of PP4 to bring project called POLYREG within the call of the Central Europe program, which is deeper processing project Donauregionen+. All participated partners agree to this proposal. The partners have agreed on a sequence of steps in processing the project proposal.

5. Conclusions and recommendations

1) The participants agreed on the further steps in the field of WP6 as follows:
   a) Definition of Crossdanube regions (CDR) according time accessibility was approved by partners
      i) Hungarian partner will send the relevant data for road network (all road categories)
   b) Analysis of WP6 will be done on the basis of WP4 data
   c) Indicators for CDR will be the same as in WP4 and WP5
   d) Measures and projects in local level with cross Danube linkages will be taking into account
   e) Setting up of the cross Danube working group for each CDR will be done
   f) ERDF PP1 will on the basis of discussion prepare the guideline for elaboration of the WP6 document (before Workshop in Bucharest) and send it for comments to ERDF PP7 and other participated partners.
2) The participants agreed on elaboration of the POLYREG project proposal of the 3rd call of the OP CE and on this decision the following steps will be taken:
   a) ERDFPP1 will till April 19 2010 elaborate the 1st working version of the project proposal and disseminate it to the partners
   b) The comments of the 1st version will be sent to ERDF PP1 on the permanently way in order to do the relevant updates
   c) The lead partner of the project would be URBION a budgetary organization of the MoCRD
   d) The next meeting of all involved partners of project POLYREG will be April 28 2010 in Budapest

6. Annexes (presentations & reports)

A - Project Status

B - Methodology of CSD

B1 - Structure of WP6 Document

C - Project data and GIS Transport Accessibility Model

D1 - Verification of the CSD Methodology – Komárno-Komárom

D2 - Verification of the CSD Methodology – Case Study

A - Project Status

1st Cross DanubeWorkshop - of the DONAUREGIONEN+ project

– Project status –
15th - 16th April 2010
Podbanské, Slovak Republic
Tatiana Beláková

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Preparatory work – international level

October 2009 – working meeting in Nitra
October 2009 - working meeting in Budapest

- methodology of the WP4
- methodology WP5
- model of the region Komárno
  Komárom

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Preparatory work –national level

December 2009 – working meeting in Nitra

- Representative of regions
- Komárno
- Nové Zámky

Request of data records

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January 2010 - Data from microregions
Komárno
Nové Zámky

- Forwarded to ERDF PP1

- Working on final version of the methodology of WP5
- Working on methodology WP6

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4th WORKSHOP - Budapest 17-18.03.2010

The activities within Work package 6 started from the 1st March

- 4 presentations – related to WP6

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1st Mr. Márton Lendvay

– case study of application of the WP 5 methodology on region Komárom-Esztergom

- steps of methodology application
- Calculation of values of the development indicators at NUTS 3 level

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2nd Mr. Pavol Petrík

- case study of WP5 methodology application on Nitra self government region
- steps of methodology application
- Calculation of values of the development indicators at NUTS 3 level

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3rd Mr. Peter Tomášek

– presentation of WP6 methodology – proposal of the complex methodology of the cross Danube strategy

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Main tasks

- definition of the border of the regions
- identification of the stakeholders in region
- establish working group of experts and regional stakeholders
- identification of the weaknesses of the region & opportunities
- cross border – impact
- define possible scenarios

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4th Mr. Márton Lendvay

- Application of the methodology on Cross Danube region Komárno –Komárom

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Next - steps

- Contact the representatives of region Štúrovo
  same procedure as with KO,NZ

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Planed working meeting

- Representatives from region
  Komárno
  Komárom
  Nové Zámky

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B - Methodology of CSD

WP 6 methodology

1st CrossDanube Workshop - of the DONAUREGIONEN+ project
15th and 16th April 2010
Podbanské, Slovakia

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CDR development - Objectives

WP 6

- *will evaluate the effects of cross Danube measures and linkages within CDR on NUTS 3 region, in which the particular CDR is located*
- *will propose the measures to overcome existing bottlenecks in CDRs, in order to contribute to the development of the NUTS 3 regions by improving and strengthening Crossdanube linkages*

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CDR strategy – Steps (1)

1st step

- Definition of CDRs according the model of time accessibility from centres of CDR
- Each CDR is defined by its centres, the area of the CDR will be determined by the time accessibility (agreed unit of time) regarding the transport network

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CDR strategy – Steps (2)

2nd step

- Identification of key stakeholders (regional self-government, municipal self-government (of major settlements), regional development agencies, euro regions, major private companies) with CDR effect
- Establishing of the working groups consisting of the representatives of the key stakeholders and project experts in CDR area
- Agreement on schedule of the meetings of working groups

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CDR strategy – Steps (3)

3rd step

- Identification of relevant documents, measures and projects with focus on cross border linkages
- Assignment of the measures and projects to the particular indicators
  - Exchange of assigned measures and projects to the particular indicators between relevant CDRs
- Set up of probability of individual measures and projects to the particular indicators
- Some of the measures can affect more than 1 indicator (positively as well as negatively) and the most of the indicators will be affected by more than 1 measure, while some indicators can remain uncovered by the measures

(We are working with modified set of indicators, the same as in WP5)

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CDR strategy – Steps (4)

4th step

- Quantification of the **effect of cross border measures and projects** on NUTS 3 region through relative weighted values of NUTS 3
- The relative weighted values are based on the evaluation of experts, and calculated according the method used in WP5
- SWOT analysis of the CDR regarding the cross border linkages
- Identification of bottlenecks – fields not covered by the measures
- Identification of the disparities between the opposite, cross Danube sides of the CDR (disparities between NUTS3 regions in which the CDR is located)

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CDR strategy – Steps (5)

5th step

- Identification of development scenario for CDR, according the predominant values of indicators (y values)
- Proposal of the new measures with cross Danube effect for each side of CDR separately
- Creation of common new measures for CDR - CDR strategy development to overcome existing bottlenecks
  - Crossdanube experts meeting

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CDR strategy – Steps (6)

6th step

- Evaluation of new proposed measures on NUTS 3 indicators values („new“ y values)
- Relative weighted values of NUTS 3 indicators as a result of proposed measures (effect of cross border cooperation measures on whole NUTS 3 region)

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Specific features of WP6

Focus on the evaluation performed by the stakeholders and experts within the working groups

Assessment of the effects of the Crossdanube linkages and measures within CDR through the changes in the values of indicators at the level of NUTS 3 regions

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THANK YOU FOR YOUR ATTENTION !

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B1 - Structure of WP6 Document

Structure of WP6 document

A. ANALYSIS

1. Introduction of WP6
   - Definition of CDRs according the model of time accessibility from centres of CDR,
   - Identification of key stakeholders (regional self-government, municipal self-government (of major settlements), regional development agencies, euro regions, major private companies) with CDR effect

2. CDR identification
   - CDR name
   - CDR area (km^2)

3. GS Natural Conditions
   - General information about CDR
   - Land use
   - Nature conservation and landscape protection
     - Protected areas
     - Ecological networks
   - State of the environment
   - Water management
   - Indicators (data for NUTS3 region)

Name	**1996**	**2001**	**2005**	**2008**
Water pollution Index				
Atmosphere pollution SO2 - emission in tons per 1000 inhabitants				
Atmosphere pollution NOx - emission in tons per 1000 inhabitants				
Atmosphere pollution ash - emission in tons per 1000 inhabitants				
Atmosphere pollution CO - emission in tons per 1000 inhabitants				
Landfills				

The number of tables is identical with number of CDR subregions.

   - Figures and maps
   - Conclusions and recommendations

4. GS Settlement Structure and Human Resources
   - General information about CDR
   - Human Resources
     - Demographic situation

- Educational structure
- Labour market

- Settlement Structure
  - Development trends
  - Roles of importance of the towns
  - Agglomerations areas and development axes
  - Interregional cooperation
- Living Standards
- Indicators (data for NUTS3 region)

Name	1996	2001	2005	2008
Number of dwellings per 1 000 inhabitants				
Number of university students per 1 000 inhabitants				
Vitality index				

The number of tables is identical with number of CDR subregions.

- Figures and maps
- Conclusions and recommendations

5. GS Transport and Technical Infrastructure
   - General information about CDR
   - Road Network
   - Railway Network
   - Waterways and Ports
   - Air Transport
   - Multimodal Transportation System and Terminals
   - Electric Energy Networks and Installations
   - Gas and Oil Supply and Distribution
   - Telecommunication Network
   - Water Protection and Management
   - Indicators (data for NUTS3 region)

Name	1996	2001	2005	2008
Road Transport – Density of Highways				
Railway Transport – Density of Railways				
Water Transport - freight transfered				
Water Transport - accessibility of ports				
Air Transport – airports accesibility				
Electric energy supply				
Natural gas				
Broadband (internet connection, >256 kbit/s)				
Drinking water supply				
Wastewater treatment				

Renewable energy sources				

The number of tables is identical with number of CDR subregions.

- Figures and maps
- Conclusions and recommendations

6. GS Economy
   - General information about CDR
   - Economic level
     - Gross Domestic Product (GDP)
     - Activity structure
     - Average monthly salary
     - Life expectancy at birth
   - Economic potential
     - Primary resources
     - Secondary resources
       - Working potential of the region and regional labour market
       - Sectoral structure of the regional economy
       - Educational structure of the inhabitants in the region
       - Research and Development
       - Innovation
   - Tourism
     - Touristic attractions according to the touristic products
     - Touristic infrastructure on NUTS 3 and NUTS 4 levels
       - Number of accommodations and their distribution according to the accommodation types
       - Commerce, services
       - Touristic institutional structure
   - Indicators (data for NUTS3 region)

Name	**1996**	**2001**	**2005**	**2008**
Regional GDP per capita in PPS as a share of EU 27(25) average (%)				
Labour force participation rate (%)				
Unemployment rate in region (%)				
Number of employed in tertiary branch (%)				
Share of college and secondary school educated inhabitants				
Tourism - average guest nights				
Tourism - foreign visitors				

The number of tables is identical with number of CDR subregions.

- Figures and maps
- Conclusions and recommendations

7. Identification of relevant documents, measures and projects with focus on cross border linkages

List of measures

No.	Name of document	Chosen measure/project	Relevant indicators	Probability of realisation
1.				
2.				
3.				
etc.				

Indicator		X value	Y values refered to 2020						Indicator value	
GS	Name		Measure	Y current 100% probability	Y a 75% probability	Y b 50% probability	Y c 25% probability	Y	Current	Premis 2020

- Figures

8. SWOT analysis

GS Natural Conditions	Strengths	Weaknesses
	Opportunities	Threats
GS Settlement Structure and Human Resources	Strengths	Weaknesses
	Opportunities	Threats
GS Transport and Technical Infrastructure	Strengths	Weaknesses
	Opportunities	Threats
GS Economy	Strengths	Weaknesses
	Opportunities	Threats

9. Evaluation of key disparities and development factors

B. STRATEGY

10. Creation of common new measures for CDR

Example:

Programs	**Objectives**						
	The region specific objective: Prosperous region in a logistic area						
	Life quality		Economic competitiveness				
	Better environment		Lower production costs		Higher productivity	Better adaptation	
	State of natural conditions	Accessibility, connectivity	Water reserving capacity, irrigation	SME Co-operation	Attractiveness of tourism	Qualification	Labor force
Education							

Vocational training				x	x	x	x
Languages				x		x	x
Water management							
Water reservoir	x		x				
Canal lines	x	x	x				
Oxbow lake rehabilitation	x						
Organizational development							
Tourism Destination Management organization				x	x		
Development clusters				x			
Transport infrastructure							
Bridge		x					
Railways		x					
Logistic centres		x		x			
Cross Danube Region		x		x	x		x

11.Evaluation of new proposed measures on NUTS 3

Indicator		X value	Y values refered to 2020		Indicator value	
GS	Name		Measure	Y	Current	Premis 2020

- Figures

12.Conclusions and recommendations for strategy

13.References

C - Project data and GIS Transport Accessibility Model

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Project data and GIS Transport Accesibily Model

GIS Methodology

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Transport Accesibility Model

- **Build on correct topological data of roads and centers of municipalities (communes)**
- GIS Independent external computer program – 3rd party software
- **Input data must be done as oriented topological graph defining each road segment by from node, to node, length, speed and road classification**
- Accesibility model is able to calculate time and/or distance accesibity to each node (group of nodes) and road load of each road segment (group of segments)

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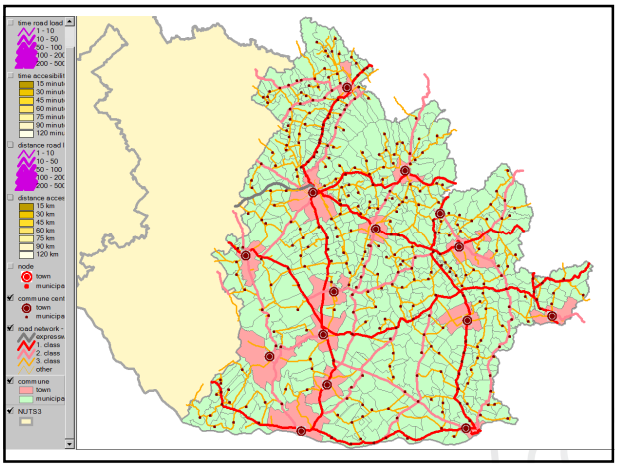
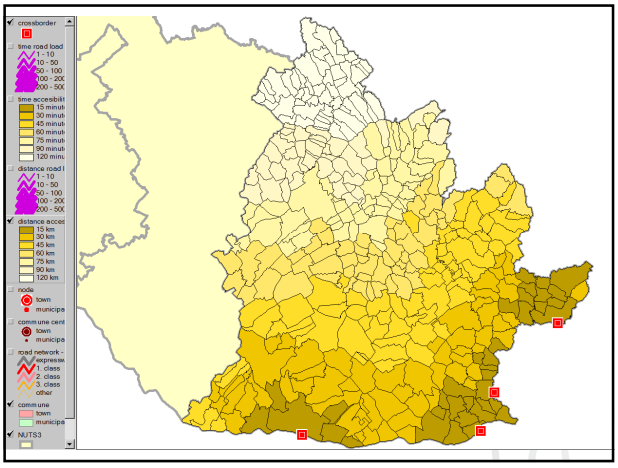
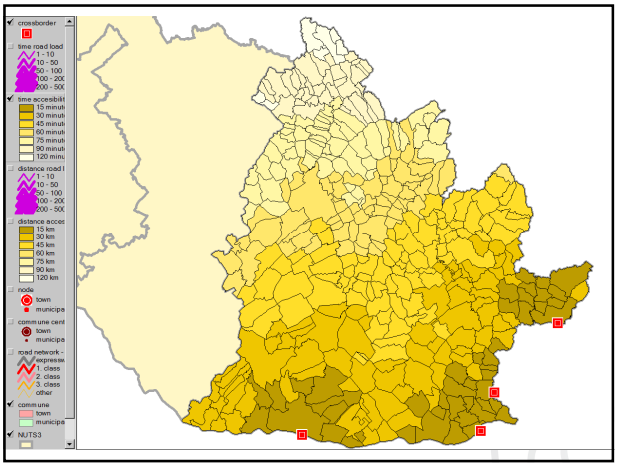
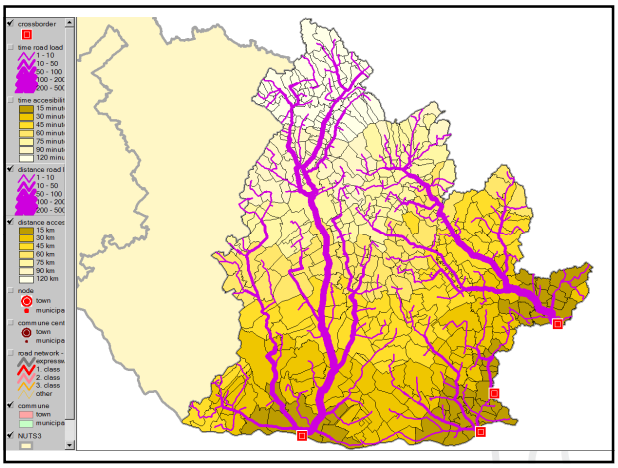
1.SI CDR workshop, Podbanské, 15. – 16.4.2010

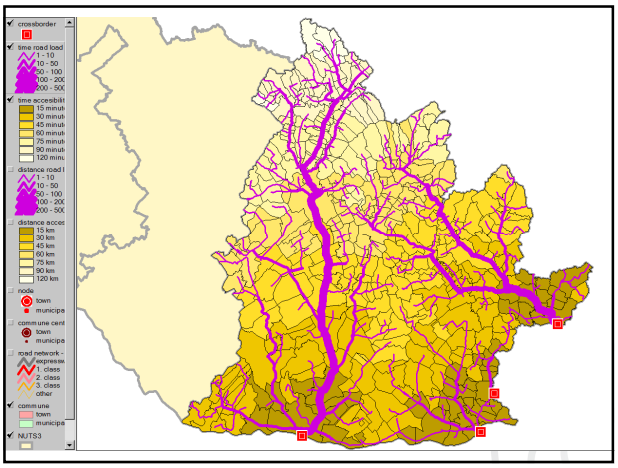
	A	B	C	D	E	F	G	H	I	J
1	ID	FNODE	TNODE	LENGTH	SPEED	CLASS		CLASS	Road Classification	SPEED
2	1	327	331	962	55	3		D	highway	110
3	2	423	450	1254	55	3		R	expressway	100
4	3	450	455	520	55	3		1	1st class	80
5	4	69	81	1300	55	3		2	2nd class	70
6	5	224	222	66	55	3		3	3rd class	55
7	6	316	331	788	70	2		M	municipality	50
8	8	327	342	1452	80	1				
9	9	358	372	1266	80	1				
10	10	309	316	958	80	1				
11	11	316	327	1425	80	1				
12	13	81	91	2018	80	1				
13	20	372	377	273	80	1				
14	30	743	815	4120	80	1				
15	31	905	947	1705	80	1				
16	32	815	844	1510	80	1				
17	33	895	905	954	80	1				
18	34	893	895	339	80	1				
19	35	709	712	171	80	1				
20	36	712	743	2063	80	1				
21	37	844	893	3411	80	1				
22	61	381	384	165	50	M				
23	62	381	383	116	50	M				
24	63	383	385	202	50	M				
25	64	384	385	83	50	M				
26	65	385	500011	849	50	M				
27	66	374	383	1514	50	M				
28	67	500925	375	556	50	M				
29	68	385	407	3229	50	M				
30	69	361	374	993	50	M				
31	70	347	381	2136	50	M				
32	71	1248	1254	493	80	1				
33	72	503584	1248	597	80	1				
34	73	500585	439	677	50	M				
35	74	977	503011	1565	50	M				
36	75	338	354	511	50	M				











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Thank you for your attention,

Have a nice day ...

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1.St CDR workshop, Podbanské, 15. – 16.4.2010

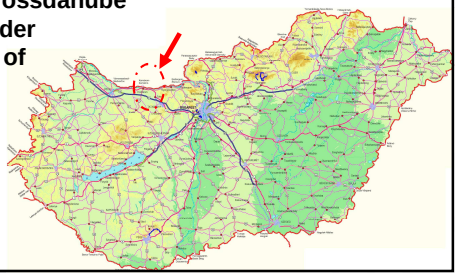
D1 - Verification of the CSD Methodology
Komárno - Komárom

CDR Komárom-Komárno

Márton Lendvay
ERDF PP 7- SASD
15 04 2010
Podbanské

Cross Danube regions

To develop crossdanube and crossborder growth poles of regional importance

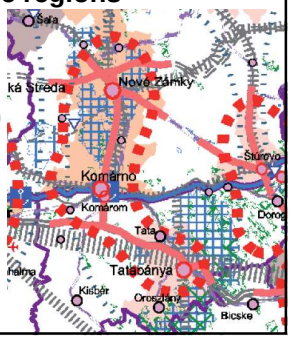


Cross Danube regions

Cross Danube regions

BORDERING

- **Core-area (e.g. twin cities)**
- **Potential area**
  - Accessibility and transport corridors (GIS)
  - Clusters, logistic zones, commuting area
  - Expert evaluation



Cross Danube regions

STRATEGY

- Using results of WP3, WP4 and WP5
- Analysis of indicators (if possible)
- Selection of measures concerning the area from documents
- SWOT, Stakeholder conferences & working groups - complex measures
- Measures from top-down approach
- Role of iteration

Methods

	Work Package			
Method	**WP4**	**WP5**	**WP6**	**WP7**
Sociological methods				
SWOT analysis	xxx	xxx	xxx	x
Document analysis	x	xxx	xx	x
Personal interview		x	xx	x
Focus group		xx	xx	
Case study		x	x	
Personal observation				
Expert team	x	xxx	xxx	xx
Questionnaire				
Delphi method				
Benchmarking				xxx
Parametrizing, exact methods				
Mapping	xx	x	xx	xx
GIS	xx	x	xx	x
X -Y	x	xxx		xx
Cost-benefit analysis				
Shift-share analysis				
Regression analysis				
Factor analysis				
Input-output model				
Econometric model				

Relevant documents and selected measures

- Analyzed for WP5
- Selection of measures relevant for the selected region
- Impact of cross border measures
- Identification of bottlenecks
- Results of research documents

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Key stakeholders

- Local and regional self-governments
- Regional development agencies
- Private companies
- NGOs
- Research institutes
- Cultural centers

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SWOT analysis

Strength	Weakness
•Location •Infrastructure •Transnational enterprises •Industrial parks •Euroregions	•Few bridges over Danube •Few ports •Tourism (attractions) •Utilization of Danube •R&D potential
Opportunity	**Threat**
•Cross-border cooperation •Shipping •Ecology •Development of transport systems •Clusters, industrial integration •Cultural heritage	•Many organizations •Unharmonized development actions •Subordinate role in the Mid-Transdanubian Region •Higher competitiveness of Slovakia •Risk of drinking water pollution

Programs and objectives

Programs	Objectives						
	The region specific objective: Prosperous region in a logistic area						
	Life quality		Economic competitiveness				
	Better environment		Lower production costs		Higher productivity	Better adaptation	
	State of natural conditions	Accessibility, connectivity	Water reserving capacity, irrigation	SME Co-operation	Attractiveness of tourism	Qualification	Labor force
Education							
Vocational training				x	x	x	x
Languages				x		x	x
Water management							
Water reservoir	x		x				
Canal lines	x	x	x				
Oxbow lake rehabilitation	x						
Organizational development							
Tourism Destination Management organization				x	x		
Development clusters				x			
Transport infrastructure							
Bridge		x					
Railways		x					
Logistic centres		x		x			
Cross Danube Region		x		x	x		x

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Cross Danube regions

PROPOSED MEASURES

- Development of EGTC (European Grouping of Territorial Cooperation) by organization and number of participants
- New bridge (and transportation system as an all)
- Entrepreneur Clusters
- Co-operation in tourism destination management
- The involvement of proposed measures in local plans
- **Common research projects**

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D2 - Verification of the CSD Methodology
Case Study

WP6 – Case study of Komárno

1th CrossDanube Workshop - of the DONAUREGIONEN+ project
15th and 16th April 2010
Podbanské, Slovakia

Objective

- Strengthen of mutual cooperation of CDR subregions
- To identify common disparities and weknesses and to propose programs to overcome them

Indicators (1)

- **GS Natural conditions**
  - Water pollution Index
  - Atmosphere pollution SO_2 - emission in tons for 1000 inhabitants
  - Atmosphere pollution NO_x - emission in tons for 1000 inhabitants
  - Atmosphere pollution ash - emission in tons for 1000 inhabitants
  - Atmosphere pollution CO - emission in tons for 1000 inhabitants
  - Number of landfills

Indicators (2)

- **GS Settlement Structure and Human Resources**
  - Number of dwellings per 1 000 inhabitants
  - Number of university students per 1 000 inhabitants
  - Regional vitality index

Indicators (3)

- **GS Transport**
  - Road Transport – Density of Highways
  - Railway Transport – Density of Railways
  - Water Transport – freight transfered
  - Water Transport – accessibility of ports
  - Air Transport – airports accesibility

Indicators (4)

- **GS Technical Infrastructure**
  - Electric energy supply
  - Natural gas supply
  - Broadband (internet connection, >256 kbit/s)
  - Drinking water supply
  - Wastewater treatment
  - Renewable energy sources

Indicators (5)

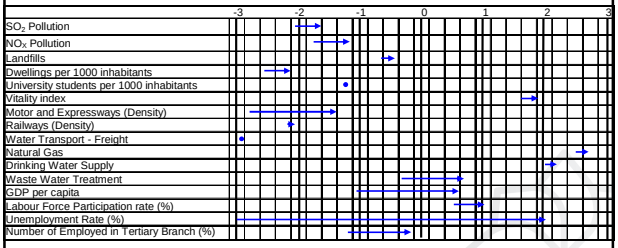
- **GS Economy**
  - Regional GDP per capita in PPS as a share of EU 27(25) average (%)
  - Labour force participation rate (%)
  - Unemployment rate in region (%)
  - Number of employed in tertiary branch (%)
  - Share of college and secondary school educated inhabitants
  - Tourism - average guest nights
  - Tourism - foreign visitors

Identification of relevant documents

- **National level:**
  - Regional operational Program,
  - Operational Program – Transport,
  - Operational Program – Competitiveness and Economy Growth,
  - Program of Crossborder Cooperation – HU-SK,
- **Regional level:**
  - Program of Economy and Social Development of Nitra Self-governing County,
  - Development Strategy of Tourism in Nitra Self-governing County,
  - Physical Transport Generel of Nitra Self-governing County,
  - Physical Plan of Nitra Self-governing County
- **Local level:**
  - Program of Economy and Social Development of Komárno

	Indicator		Value X	Value Y	Indicators value	
GS	Name	Value		Predict to 2020	Min.	Max.
NC	Atmosphere pollution SO_2	7,000	-2,077	-1,615	1,000	40,000
	Atmosphere pollution NO_x	8,000	-1,769	-1,154	0,000	39,000
	Landfills	11,000	-0,692	-0,462	1,000	27,000
SS HR	Dwellings per 1 000 inhabitants	326,760	-2,561	-2,109	304,159	613,000
	University students per 1 000 inhabitants	37,921	-1,270	-1,270	0,000	131,500
	Vitality index	110,355	1,600	1,900	51,400	128,300
TTI	Motor and Expressways (Density)	0,003	-2,836	-1,364	0,000	0,110
	Railways (Density)	0,031	-2,177	-2,044	0,000	0,226
	Water Transport - freight transfered	374 704	-2,963	-2,961	0,000	60 828 000
	Natural gas	91,500	2,490	2,700	0,000	100,000
	Drinking water supply	87,300	2,071	2,268	18,000	100,000
	Wastewater treatment	42,880	-0,312	0,761	0,000	95,710
E	Regional GDP per capita in PPS as a share of EU 27(25) average (%)	50,000	-1,074	0,686	11,720	131,000
	Labour force participation rate (%)	57,800	0,546	1,064	39,300	70,600
	Unemployment rate in region (%)	17,800	-3,000	2,051	2,000	17,800
	Number of employed in tertiary branch (%)	31,650	-1,274	-0,266	17,350	67,050

Effect of measures on indicators



SWOT Analysis

Strengths •county morphology •developed agglomerations •transeuropean transport corridors •railway - international corridor IV. •high level of energy production	Weaknesses •few water sources •overregional transport network •road connection along the Danube •insufficient RES production •high unemployment rate
Opportunities •cross-border cooperation •alternative sources of energy •R&D •Danube ports •cultural heritage	Threats •air pollution •ageing •demographic depression

Strategy

Programs	*Objectives*					
	Education	Labour force	Waste disposal	Economic competetiveness	Accessibility, connectivity	Life quality
Education						
Vocational training						
Languages						
State of environment						
Landfills						
Transport infrastructure						
Water posrt						
Railways						
Technical infrastructure						
Natural gas						
Drinking water						

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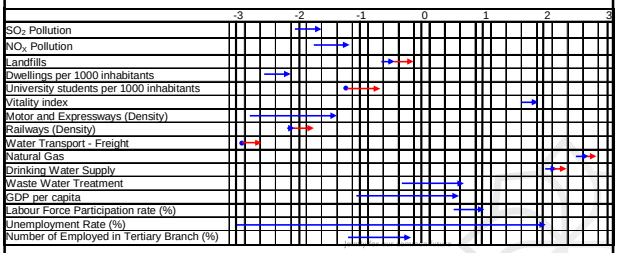
Effect of proposed measures



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Thank you for your attention.

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