




WP5 – Case study of Nitra Self-governing County

4th Workshop - of the DONAUREGIONEN+ project
17th and 18th March 2010
Budapest, Hungary

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Objective

- determine current position and position in 2020 for each NUTS3 region within Donauregionen area:
 - For each indicator
 - For General Schemes
- set up a development strategy and propose the reasonable measures/activities

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Indicators (1)

- **GS Natural conditions**
 - Water pollution Index
 - Atmosphere pollution SO₂ - 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

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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

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Indicators (3)

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

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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

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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

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X values

- Calculation of X values:

$$X = [(Value_i - Value_{min} / Value_{max} - Value_{min}) - 0,5] * 6$$
- X values determine the current state of the indicator within Donauregionen area,
- For this case study we have used indicators values for the year 2005 (from Donauregionen project).

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Y values

1. Identification and collection of relevant documents
2. Identification of relevant measures/activities
3. Determination (quantification) of influence of these measures on individual indicators development (referred to 2020)
4. Calculation of change in time:
 - individual indicators
 - Individual General Schemes

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Identification of relevant documents (1)

- In Nitra Self-governing County we have identified:
- **National level:**
 - Regional operational Program,
 - Operational Program – Environment,
 - Operational Program – Informatization of Society,
 - Operational Program – Transport,
 - Operational Program – Competitiveness and Economy Growth,
 - Operational Program – Employment and Social Inclusion,
 - Program of Crossborder Cooperation – HU-SK,
 - Strategy for better utilization of Renewable energy sources in Slovakia

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Identification of relevant documents (2)

- **Regional level:**
 - Program of Economy and Social Development of Nitra Self-governing County,
 - Action Plan of Development of Nitra Self-governing County,
 - Development Strategy of Tourism in Nitra Self-governing County,
 - Physical Transport General of Nitra Self-governing County,
 - Physical Plan of Nitra Self-governing County
- **Local level:**
 - Program of Economy and Social Development of Komárno
 - Program of Economy and Social Development of Nové Zámky

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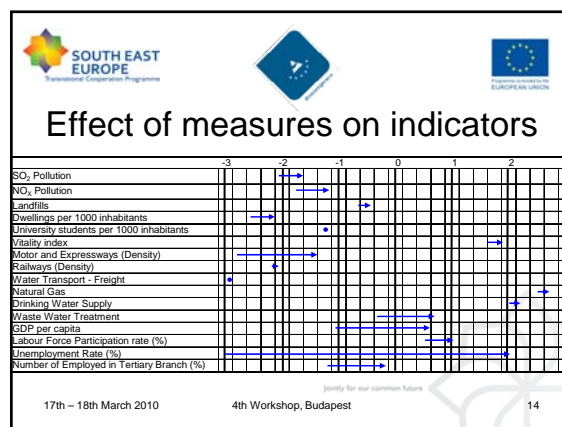



Identification of relevant measures

- Measures, which influence on the indicators value in the future (2020).
- More than 100 measures were identified.

Indicator	Measure/activity
Wastewater treatment	Construction, extension and capacity increase of sewer networks
	Construction, extension and capacity increase of sewage treatment plants
	Increasing of number of municipalities with sewer networks according to EU requirements

Indicator	Value	Value X	Value Y	Indicators value	
				Predict to 2020	Min. / Max.
gs Atmosphere pollution SO ₂	7,000	-2,077	-1,615	1,000	40,000
nc 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
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 transferred	374 704	-2,963	-2,961	0,000	60 828 000
TTI 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



Problems

- A lot of measures – difficult to find the „right“ measures
- Sometime it is difficult to quantify their impact on the indicator
- Some of indicators have not to be covered with measures/activities in planning documents

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Thank you for your attention.

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