


SOUTH EAST EUROPE
 Transnational Cooperation Programme


Donauregionen+


 Programme co-funded by the
 EUROPEAN UNION

Project data and GIS Methodology & Development

GIS Methodology

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Donauregionen+ Geodatabase Structure

Preliminary version (22.11.2010)

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GIS Methodology

GIS geographic data for project outputs elaboration should be created with following properties:

- Relevant coordinate system
- ESRI – Data format
- xBase file format convention attributes
- Software ArcGIS (recommended) or ArcView GIS from ESRI

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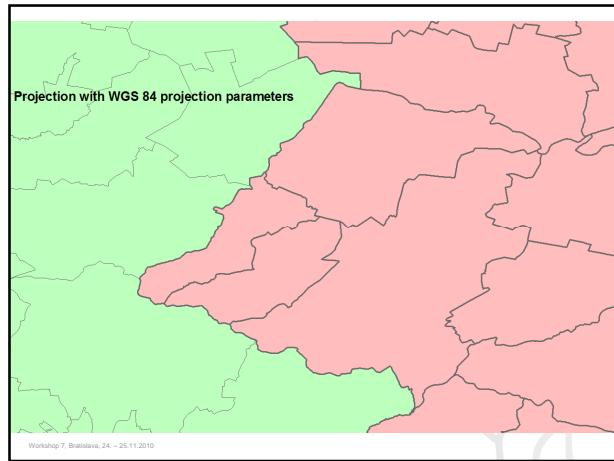
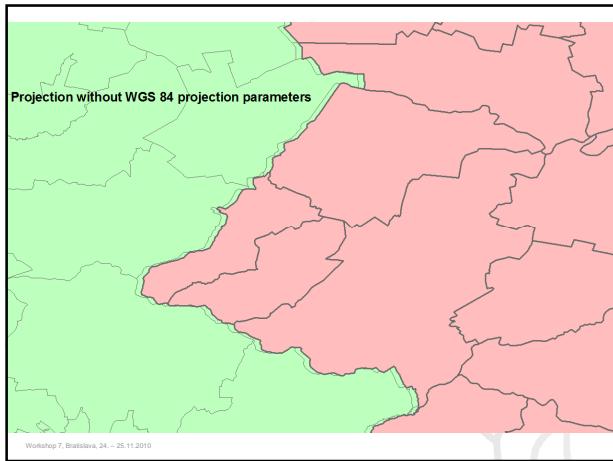
GIS Methodology

GIS geographic data for project outputs elaboration should be created in the following Coordinate systems:

- National coordinate system with corresponding PRJ file with National to WGS 1984 / ETRS 1989 Transformation parameters (see Methodology, Appendix A)
- ETRS 1989 (European Plate Coordinate System)
- WGS 1984 (World Geodetic System)

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National Coordinate Systems - Not Completed										
Country	Projection Name	Ellipsoid (Spheroid)	Projection Name	Transformation Parameters	dX	dY	dZ	rX	rY	rZ
Bulgaria	Pulkovo 1942 GK Zone 4	Krasovsky 1942	Gauss-Kruger	Pulkovo 1942 to WGS 1984 (I)	24.000000	123.000000	-34.000000	-0.020000	0.250000	0.1000000000
	Pulkovo 1942 GK Zone 5			Pulkovo 1942 to WGS 1984 (II)	28.000000	121.000000	77.000000	-	-0.250000	-0.1000000000
Croatia	MGI Balkans 5 MGR 1989 E	Bessel 1841	Transverse Mercator	MGI to WGS 1984 (2)	551.700000	162.000000	487.000000	0.040000	1.960000	-11.300000
Hungary	Hungarian 1972	Hungarian Meridian-Azimuth Center		ETRS 1995 to ETRS 1995 Hungary 1972	96.000000	-75.770000	-15.300000	0.370000	0.200000	0.2100000000
Moldova	Mostrut 1999	GRS 1990	Transverse Mercator	ETRS 1995 to WGS 1984	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000000
Romania	Steno 1973	Krasovsky 1942	Double Stereographic	ETRS 1995 to WGS 1984 (2)	28.000000	121.000000	-77.000000	-	-	7.7
Serbia	MGI Balkans 7	Bessel 1841	Transverse Mercator	MGI to ETRS 1995 (2)	551.700000	162.000000	487.000000	0.040000	1.960000	-11.300000
Slovakia	S-JTSK_Kravik East North	Bessel 1841	Klavík	Geocentric Translation to WGS 1984 (NGA)	696.450000	-108.620000	484.000000	-	-	-
Ukraine	Pulkovo 1942	Krasovsky 1942	Gauss-Kruger	Pulkovo 1942 to ETRS 1995	24.000000	123.000000	-34.000000	-0.020000	0.250000	0.1000000000
European Union	ETRS 1999 LAEA	GRS 1990	Lambert Azimuth Equal Area	ETRS 1995 to WGS 1984	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000000
	ETRS 1999 LCC		Conformal Conic	ETRS 1995 to WGS 1984	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000000000
World	WGS 1984	GRS 1990		WGS 1984	-	-	-	0.000000	0.000000	0.0000000000

dx, dy, dz – Shift along X, Y and Z axis in meters
 rX, rY, rZ – Rotation around X, Y and Z axis in seconds
 S – Scale Difference in ppm (parts per million)

Valid transformation parameters
 Probably correct parameters listed to be verified
 Missing parameters to be discovered, tested and verified

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GIS Methodology

GIS geographic data for project outputs elaboration should be created in the following data formats:

- ESRI – Personal Geodatabase
- ESRI – Shapefile (i.e. DBF, SHP, SHX, PRJ, CPG files)
- ESRI – File Geodatabase
- ESRI – ArcInfo coverage
- ESRI – PC ArcInfo coverage

• File Names written in ASCII alphanumeric characters (A – Z, a – z, 0 – 9 and “_”) in English language

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GIS geographic and/or attribute data should be created in the **xBase file format convention** in English language:

- Field Name:
 - Only upper alphanumeric characters (A – Z, 0 – 9 and “_”)
 - Maximum name length 10 characters (i.e. NUTS4_NAME)
 - Does not begin with number (i.e. 2_ND)
- Data Codepage:
 - Windows 1250 Central European (HR, HU, MD, RO, RS, SK)
 - Windows 1251 Cyrillic (BG, UA)
 - Cyrillic names should be written also in Latin transcription

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GIS data should be produced (finalized) in ArcGIS or ArcView:

- Correct topology:
 - No overlap or gaps for polygon data
 - No useless dangle or pseudo nodes for polyline data
 - No duplicate for point data
 - If possible done by defining ArcGIS topology rules
- Project formats:
 - MXD project format for ArcGIS version 9.2 and higher
 - APR project format for ArcView GIS version 3.2 and higher

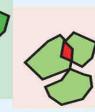
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Polygon

Must not overlap

Polygons must not overlap within a feature class or subtype. Polygons must be disconnected or touch at a point or touch along an edge.



Use this rule to make sure that no polygon overlaps another polygon in the same feature class or subtype.

Polygon errors are created from areas where polygons overlap.



A voting district map cannot have any overlaps in its coverage.

Point

Must be properly inside polygons

Points in one feature class or subtype must be inside polygons of another feature class or subtype.



Use this rule when you want points to be completely within the boundaries of polygons.

Point errors are created where the points are outside or touch the boundary of the polygons.



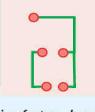
State capitals must be inside each state.

Line

Must not have dangles

The end of a line must touch the end of one other line or any part of itself in a feature class or subtype.



Point errors are created at the end of a line that does not touch at least one other line or itself.

Use this rule when you want lines in a feature class or subtype to connect to one another.

A street network has line segments that connect. If segments end for dead-end roads or cul-de-sacs, you could choose to set as exceptions during an edit session.

Line

Must not have pseudonodes

The end of a line cannot touch the end of one other line or any part of itself in a feature class or subtype. The end of a line can touch any part of itself.



Point errors are created where the end of a line touches the end of only one other line.

Use this rule to clean up data with inappropriately subdivided lines.

For hydrologic analysis, segments of a river system might be constrained to only have nodes at endpoints or junctions.

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Geodatabase Structure

<http://dplus.infoprojekt.sk/Methodology/WP3GIS/32GISdevelopment.aspx>

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General Scheme / Layer	Select	Select							
	BG	HU	HR	MD	RO	RS	SK	UA	
WGS 1984	O.K.	missing							
ETRS 1999	O.K.	O.K.	O.K.	O.K.	missing	O.K.	O.K.	O.K.	missing
Settlement Structure	BG	HU	HR	MD	RO	RS	SK	UA	
NUTS0	available	available	derivable	O.K.	O.K.	available	O.K.	derivable	
NUTS0 Boundary	available	available	derivable	O.K.	O.K.	available	O.K.	derivable	
NUTS1	available	available	derivable	N/A	O.K.	available	O.K.	derivable	
NUTS1 Boundary	available	available	derivable	N/A	O.K.	available	O.K.	derivable	
NUTS2	available	available	derivable	N/A	O.K.	available	O.K.	derivable	
NUTS2 Boundary	available	available	derivable	N/A	O.K.	available	O.K.	derivable	
NUTS3	available	available	derivable	O.K.	O.K.	available	O.K.	N/A	
NUTS3 Boundary	available	available	derivable	O.K.	O.K.	available	O.K.	N/A	
LAU1	available	available	derivable	O.K.	N/A	available	O.K.	available	
LAU1 Boundary	available	available	derivable	O.K.	N/A	available	O.K.	derivable	
LAU2	available	available	available	O.K.	O.K.	available	O.K.	N/A	
LAU2 Boundary	available	available	derivable	O.K.	O.K.	available	O.K.	N/A	
LAU2 Centres	available	available	missing	O.K.	O.K.	available	O.K.	N/A	

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Nature Conditions	BG	HU	HR	MD	RO	RS	SK	UA
Natura2000	O.K.	O.K.	O.K.	N/A	O.K.	N/A	O.K.	N/A
Nature Protected Area	available	available	available	available	available	available	O.K.	missing
Protected Area	available	available	available	available	available	available	O.K.	available
World Heritage Site	available	available	N/A	N/A	available	N/A	N/A	N/A
Man and Biosphere Reserve	available	available	N/A	N/A	available	N/A	N/A	missing
CORINE Land Cover	O.K.	O.K.	O.K.	O.K.	N/A	O.K.	O.K.	N/A
Landfill	available	available	available	N/A	available	missing	O.K.	missing
Waste Incinerator	available	available	missing	N/A	available	missing	O.K.	missing
Pollution	missing	available	missing	missing	available	missing	available	missing
Water Source	missing	missing	available	available	available	available	available	available
Water Protection Area	missing	missing	available	missing	missing	missing	O.K.	missing
Hygiene Protection Zone	missing	missing	missing	missing	missing	missing	O.K.	missing
Pound Lock	missing	missing	missing	N/A	missing	missing	O.K.	missing
Spill	missing	missing	missing	missing	missing	available	O.K.	missing
Seismic Area	missing	missing	missing	missing	available	available	O.K.	missing
Settlement	available	available	available	available	available	available	O.K.	available
Forest	missing	available	missing	available	missing	available	O.K.	missing
Water Area	available	available	missing	available	missing	available	O.K.	available
Economy	BG	HU	HR	MD	RO	RS	SK	UA
-	N/A							

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Current GIS Data Situation

Current Layer Status:

- O.K. – GIS Layer and Attribute Data looks to be elaborated according project methodology
- Available – GIS Layer looks to be O.K. but Attribute Data are still missing or not elaborated according methodology
- Derivable – GIS Layer and / or Attribute Data can be derived from other layer which is O.K. or available
- Missing – GIS Layer and Attribute Data are still missing
- N/A – GIS Layer and / or Attribute Data are not available for project partner country

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Transport	BG	HU	HR	MD	RO	RS	SK	UA
Road	available	available	available	O.K.	available	available	available	available
Railway	available	available	available	O.K.	available	available	O.K.	available
Waterway / River	available	available	available	O.K.	available	available	O.K.	missing
Bicycle Route	available	available	missing	missing	available	available	O.K.	missing
Airport	available	available	missing	missing	O.K.	available	O.K.	missing
Port	available	available	missing	O.K.	available	available	O.K.	missing
Terminal	available	available	missing	O.K.	available	available	O.K.	missing
Border Crossing	available	available	available	O.K.	available	available	O.K.	missing
Technical Infrastructure	BG	HU	HR	MD	RO	RS	SK	UA
Power Plant	available	available	missing	O.K.	available	available	O.K.	missing
Power Station	available	available	available	O.K.	available	available	O.K.	missing
Powerline	available	available	available	O.K.	available	available	O.K.	missing
Gas Facility	available	available	available	missing	available	available	O.K.	missing
Gas Pipeline	available	available	available	available	available	available	O.K.	missing
Gas Production Region	N/A	available	N/A	N/A	N/A	N/A	N/A	missing
Refinery	available	available	missing	missing	available	available	O.K.	missing
Oil Pipeline	N/A	available	available	missing	available	available	O.K.	missing
Oil Deposit Region	missing	available	available	available	available	available	O.K.	missing
Water Facility	available	available	available	missing	available	available	O.K.	missing
Water Pipeline	available	available	available	missing	available	missing	O.K.	missing
Sewage Treatment Plant	available	available	missing	missing	missing	missing	O.K.	missing
Sewer Pipeline	missing	available	missing	missing	missing	missing	O.K.	missing
Flood Protection	available	available	available	available	available	available	O.K.	missing
Flood Risk Area	available	available	available	available	missing	available	available	missing
Telecommunication Facility	available	available	missing	missing	available	available	O.K.	missing
Telecommunication Network	available	available	missing	missing	available	available	O.K.	missing

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TABULAR DATA FOR NUTS3, CBR AND COUNTRIES

Non geographical data for project elaboration should be created with following properties:

- Organization of relevant non graphical data in the tables
- Stored in xBase (DBF), Excel (XLS) or Access (MDB) format
- xBase file format convention of attribute (field) names
- Tables contain necessary data for all defined time horizons
- Data selection by information stored in the field **YEAR**
- Calculation of NUTS3 and / or Cross Border Regions
- Geographical analysis and producing of maps and schemes

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NUTS 3 Transport Indicators – Table data structure (Proposal)					
Field Name	Field Type	Field Length	Field Description		
NUTS3_NAME	Character	32	Name of NUTS 3 according Eurostat		
MW_LENGTH	Numeric	6.1	Length of motorways in km		
EW_LENGTH	Numeric	6.1	Length of expressways in km		
R1C_LENGTH	Numeric	6.1	Length of 1 st class roads in km		
R2C_LENGTH	Numeric	6.1	Length of 2 nd class roads in km		
ME_SHARE	Numeric	6.3	Share of motorways and expressways in km/km		
ME_DENSITY	Numeric	6.3	Density of motorways and expressways in km/km ²		
RI_LENGTH	Numeric	6.1	Length of railways of international importance in km		
RV_LENGTH	Numeric	6.1	Length of national and regional importance railways in km		
RL_SHARE	Numeric	6.3	Share of international importance railways in km/km		
RL_DENSITY	Numeric	6.3	Density of international importance railways in km/km ²		
PT_PASSEN	Numeric	7	Count of passengers transferred by ports		
PT_FREIGHT	Numeric	7	Amount of freight transferred by ports in tons		
PT_INHABIT	Numeric	7	Count of inhabitants living within 60 km from ports		
PT_P_1000	Numeric	7.2	Share of passengers per 1 000 inhabitants		
PT_F_1000	Numeric	7.2	Share of transferred freight per 1 000 inhabitants		
PT_ACCESS	Numeric	6.2	Share of inhabitants living within 60 km from ports		
AP_PASSEN	Numeric	7	Count of passengers transferred by airports		
AP_FREIGHT	Numeric	7	Amount of freight transferred by airports in tons		
AP_INHABIT	Numeric	7	Count of inhabitants living within 80 km from airports		
AP_P_1000	Numeric	7.2	Share of passengers per 1 000 inhabitants		
AP_F_1000	Numeric	7.2	Share of transferred freight per 1 000 inhabitants		
AP_ACCESS	Numeric	6.2	Share of inhabitants living within 80 km from airports		
TEN_LENGTH	Numeric	6.1	Length of TEN-T Corridors		
TEN_DENSIT	Numeric	6.3	Density of TEN-T Corridors		
YEAR	Numeric	4	Year horizon of data validity		

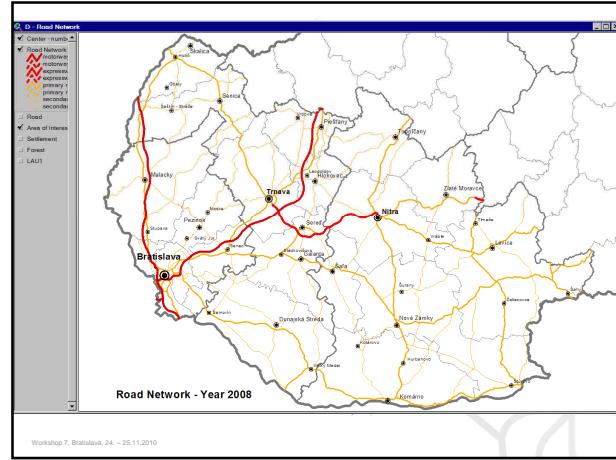
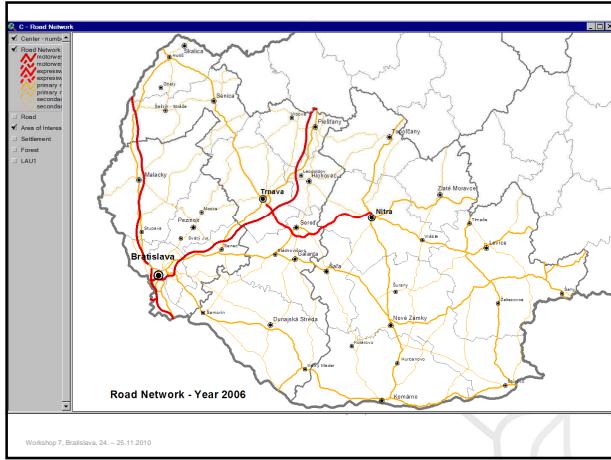
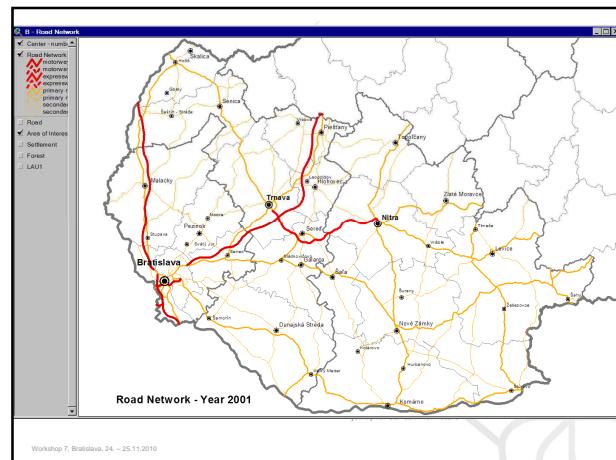
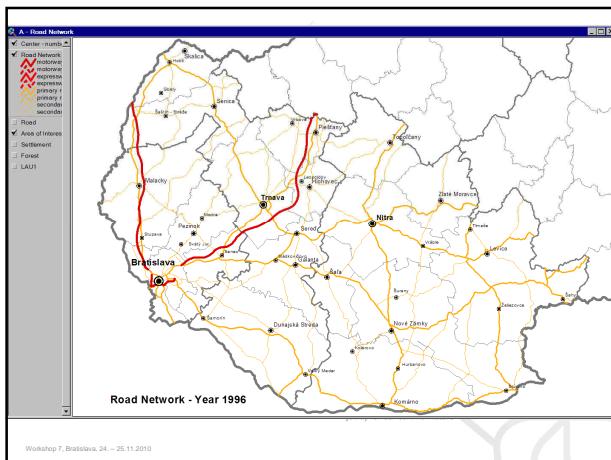
The specification of GS.Transport and Technical Infrastructure attribute data is under the responsibility of Serbian partner.

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NUTS	NUTS Name	Area in km ²	Length of roads 2008			Indicators 2008		Year
			MW	EW	1st class	2nd class	Share	
SK0100	Bratislavský kraj	367.064983	59.179	0.000	61.459	60.157	0.317	2008
SK0106	Malacky	92.530796	34.581	0.000	35.385	68.390	0.218	0.036 2008
SK0107	Peznok	375.392900	0.000	0.000	0.000	58.001	0.000	0.000 2008
SK0108	Senec	359.878540	22.799	0.000	42.952	29.299	0.240	0.063 2008
SK010 Bratislavský kraj	2054.867119	116.559	0.000	139.792	241.847	0.234	0.057	2008
SK0211	Dunajská Streda	1075.140520	0.000	0.000	60.505	133.901	0.000	0.000 2008
SK0212	Galanta	640.919275	0.000	15.410	42.018	76.821	0.115	0.024 2008
SK0213	Hlohovec	268.536127	14.638	0.000	11.510	56.964	0.176	0.055 2008
SK0214	Piesťany	380.844797	19.703	0.000	17.024	73.904	0.178	0.052 2008
SK0215	Senica	678.364744	14.122	0.000	40.451	96.801	0.093	0.021 2008
SK0216	Skalica	355.969396	0.976	0.000	38.394	24.896	0.015	0.003 2008
SK0217	Trenčín	740.682559	17.873	10.491	53.261	68.876	0.188	0.038 2008
SK021 Trnavský kraj	4140.329418	67.312	25.901	263.163	532.163	0.105	0.023	2008
SK0231	Komárno	1099.445649	0.000	0.000	86.820	83.193	0.000	0.000 2008
SK0232	Levice	1549.550246	0.000	0.000	157.255	100.721	0.000	0.000 2008
SK0233	Nitra	871.142488	0.000	18.825	72.163	54.947	0.129	0.022 2008
SK0234	Nové Zámky	1344.863079	0.000	0.000	110.924	140.105	0.000	0.000 2008
SK0235	Safára	354.188520	0.000	0.000	14.767	34.100	0.000	0.000 2008
SK0236	Topoľčany	597.813705	0.000	0.000	26.774	58.267	0.000	0.000 2008
SK0237	Zlaté Moravce	521.126947	0.000	2.679	24.861	27.828	0.048	0.005 2008
SK023 Nitriansky kraj	6338.250634	0.000	21.504	493.564	499.161	0.021	0.003	2008
SK All Regions	12633.447171	183.871	47.405	896.519	1273.171	0.096	0.018	2008

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NUTS	NUTS Name	Area in km ²	Length of roads 1996			Indicators 1996			Year
			MW	EW	1st class	2nd class	Share	Density	
SK010	Bratislavský kraj	2054.867119	78.046	0.000	139.792	241.423	0.170	0.038	1996
SK021	Trnavský kraj	4140.329418	67.312	0.000	261.794	532.163	0.076	0.016	1996
SK023	Nitriansky kraj	6338.250634	0.000	0.000	515.068	499.161	0.000	0.000	1996
SK	All Regions	12533.447171	145.358	0.000	936.654	1272.747	0.062	0.012	1996

NUTS	NUTS Name	Area in km ²	Length of roads 2001			Indicators 2001			Year
			MW	EW	1st class	2nd class	Share	Density	
SK010	Bratislavský kraj	2054.867119	96.235	0.000	139.792	241.847	0.201	0.047	2001
SK021	Trnavský kraj	4140.329418	67.312	25.901	263.163	532.163	0.105	0.023	2001
SK023	Nitriansky kraj	6338.250634	0.000	18.825	496.243	499.161	0.019	0.003	2001
SK	All Regions	12533.447171	163.547	44.726	899.198	1273.171	0.087	0.017	2001

NUTS	NUTS Name	Area in km ²	Length of roads 2006			Indicators 2006			Year
			MW	EW	1st class	2nd class	Share	Density	
SK010	Bratislavský kraj	2054.867119	104.164	0.000	139.792	241.847	0.214	0.051	2006
SK021	Trnavský kraj	4140.329418	67.312	25.901	263.163	532.163	0.105	0.023	2006
SK023	Nitriansky kraj	6338.250634	0.000	18.825	496.243	499.161	0.019	0.003	2006
SK	All Regions	12533.447171	171.476	44.726	899.198	1273.171	0.091	0.017	2006

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NUTS 3 Technical Infrastructure Indicators – Table data structure (Proposal)			
Field Name	Field Type	Field Length	Field Description
NUTS3	Character	5	NUTS 3 code according Eurostat
NUTS3_NAME	Character	32	NUTS 3 name according Eurostat
EE_DWELL	Numeric	7	Count of dwellings connected to electric energy
EE_SUPPLY	Numeric	6,2	Share of dwellings connected to electric energy per cent
NG_DWELL	Numeric	7	Count of dwellings connected to natural gas
NG_SUPPLY	Numeric	6,2	Share of dwellings connected to natural gas per cent
DW_DWELL	Numeric	7	Count of dwellings connected to drinking water
DW_SUPPLY	Numeric	6,2	Share of dwellings connected to drinking water per cent
WW_DWELL	Numeric	7	Count of dwellings connected to waste water treatment
WW_TREATM	Numeric	6,2	Share of dwellings connected to waste water treatment per cent
BL_DWELL	Numeric	7	Count of dwellings connected to broadband internet
BL_CONNECT	Numeric	6,2	Share of dwellings connected to broadband internet per cent
RE_CAPACITY	Numeric	7	Capacity of regional renewable energy sources in MW
RE_1000	Numeric	6,2	Capacity of regional renewable energy sources in MW per 1 000 inhabitants
YEAR	Numeric	4	Year (time horizon) of data validity

The specification of GS Transport and Technical Infrastructure attribute data is under the responsibility of Serbian partner.

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NUTS 3 Nature Condition Indicators – Table data structure (Proposal)			
Field Name	Field Type	Field Length	Field Description
NUTS3	Character	5	NUTS 3 code according Eurostat
NUTS3_NAME	Character	32	NUTS 3 name according Eurostat
WSS1	Numeric	2	Count of water sampling sites of 1 st water quality class
WSS2	Numeric	2	Count of water sampling sites of 2 nd water quality class
WSS3	Numeric	2	Count of water sampling sites of 3 rd water quality class
WSS4	Numeric	2	Count of water sampling sites of 4 th water quality class
WSS5	Numeric	2	Count of water sampling sites of 5 th water quality class
WP1	Numeric	5,3	Water pollution index
SO2	Numeric	7	Atmosphere pollution SO ₂ in tons
SO2_1000	Numeric	6,2	Atmosphere pollution SO ₂ in tons per 1 000 inhabitants
NOX	Numeric	7	Atmosphere pollution NO _x in tons
NOX_1000	Numeric	6,2	Atmosphere pollution NO _x in tons per 1 000 inhabitants
PM10	Numeric	7	Atmosphere pollution ash in tons
PM10_1000	Numeric	6,2	Atmosphere pollution ash in tons per 1 000 inhabitants
CO	Numeric	7	Atmosphere pollution CO in tons
CO_1000	Numeric	6,2	Atmosphere pollution CO in tons per 1 000 inhabitants
LFCAPACITY	Numeric	7	Capacity of landfill in tons
LFCAP_1000	Numeric	6,2	Capacity of landfill in tons per 1 000 inhabitants
YEAR	Numeric	4	Year (time horizon) of data validity

The specification of GS Transport and Technical Infrastructure attribute data is under the responsibility of Slovak partner.

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TABULAR DATA FOR NUTS3 Tasks and Responsibility	
The definition of non geographical tabular data structure is under the responsibility of each GS responsible partner	
Missing definition of the following NUTS3 tabular data structure: • Human Resources & Settlement Structure (Bulgaria) • Economy (Hungary)	

The elaboration of all tabular data for NUTS3 regions are in the responsibility of each (national) project partners

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Donauregionen+ Geodatabase Structure		
We are still waiting to your cooperation, recommendations, comments, notes, questions and of course help...		
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Portal & GIS Server		
Upgrade on ArcGIS Server 10.0 basis		
<ul style="list-style-type: none"> • Project web: www.donauregionen.net • GIS Server: gis.donauregionen.net • Project portal: dplus.infoprojekt.sk 		
<ul style="list-style-type: none"> • Portal & GIS Server are under construction – Work and Test mode • Maps are available online during working days from 8:00 to 16:00 CET • Number of maps: currently 20 maps 		

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