

Project SONDAR SK-AT Soil protection in Danube Region

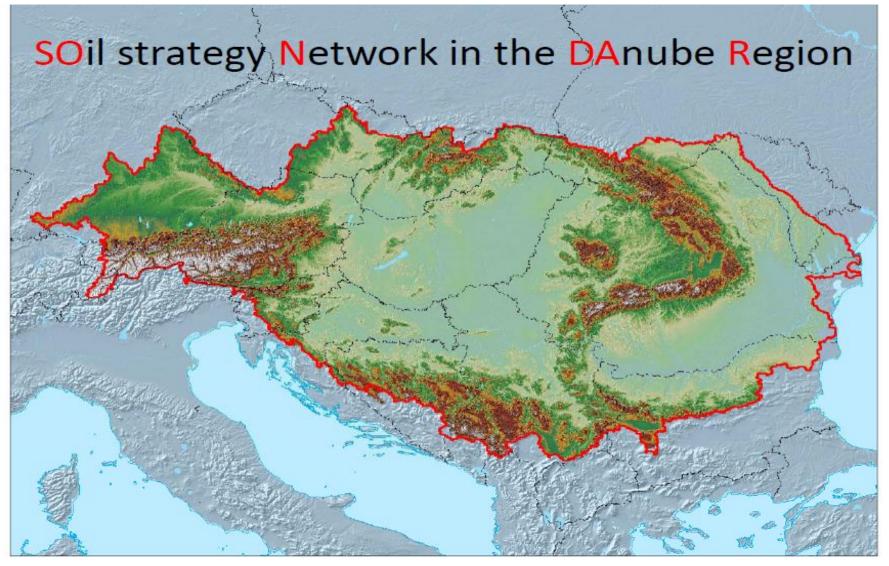
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SOil strategy Network in the DAnube Region



What is SONDAR?



- SONDAR SK-AT project (2010 2013) project of the European Rural and Development Fund (ERDF) between Slovakia (BA + TT regions) and Austria (Lower Austria)
- It represents the interface among applied soil science disciplines, land management and practices at the local and regional level in the Danube region
- It focuses and emphasizes knowledge transfer about soil for the public, which does not have got sufficient awareness about soil as a natural resource in the country and the environment
- The project was supported within the "ARGE Donauländer" for regions in the Danube River Basin: http://www.argedonau.at/neu/index.htm

It supports the **EU Danube Strategy** concerning activities 6, which explicitly mentions the soils and their sustainable development





Partners of the project



There were 4 partners (2 from AT a 2 from SK)

1. Principal investigator from AT: **BIENE** – Soil and Bio-Energy Network of European Countries

2nd partner – **BOKU Vienna**

2. Principal investigator from SK: Vodohospodárska výstavba, š.p. Bratislava

2nd partner – VÚPOP Bratislava

Associated partners: Záhorská ves, Angern an der March

Strategic partner: Societas pedologica slovaca, c.o.









Community SONDAR SK-HU-CZ-AT









Goals of the projects

WP1 Information activities (flyers, media communication, guidelines publication)

- WP2 Awareness raising on soil, its meaning and functions through the action "Painting with earth colours", contacts with municipalities,
- WP3 Soil as a indicator od flooding and risk management of areas affected by floods on the example of the joint modelling area Záhorská Ves – Angern an der March,
- WP4 Education program: training of soil ambassadors, engagement within the European Land and Soil Alliance (ELSA), action of the bedding boxes with vermicomposting,

WP5 Communication strategy (meetings, reports)









Contraction



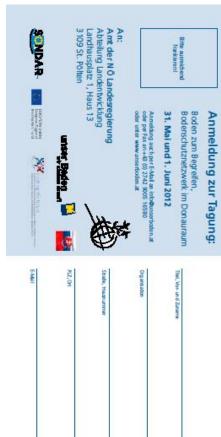
SINDAR Best-Practice Print Greening of tram line in Bratislava Title: Current Status (Date) Initial Situation: The tram line was situated on concrete and asphalt ground. It was dusty and noisy area disturbing people living in closer environment. The soil was sealed performing almost no soil Date: 2009-08-27 Current status: realized and fully functional functions Objective Enlargement green areas in Bratislava, contribution to the reduction of climate change impacts in the town environment Place (Community) Idea/Concept: Slovakia, Bratislava, Ružinov Enlargement green areas in the town. Improvement the environment for people, animals and vegetation, contribution to the decrease of heat effects especially during summer time. GEO-data Aims and actions for implementation: After elaboration of the project the greening was realized as a contract of the Municipality of Bratislava capital with the Transport company Bratislava. To the project preparation contributed also activits for healthy environment. Lat=[°N] 48,1562789 Lon=[°E] 17,1449141 Soil relevancy Project progress/realization: Decrease in soil sealing, improvement of soil The project was realized in August 2009. functionality. Project promoter -planning Fundina/costs: Capital Bratislava Municipality, Transport not known Company Bratislava Realization period Results: 22.8. - 26.8. 2009 The grass cover around the tram line. The decrease of noise and vibrations originating from trams crossing. The decrease of dustiness of the line. Functional soil cover in the touched area Internal irritation system for grass cover maintenance was installed and is fully functional. Soil alliance member Miscellaneous/Other: 🛛 No Yes Esthetical solution for public transport areas. Project in soil alliance region Future prospects: Enlargement of the area representing the trams lines greening in Bratislava especially in years 2015-2016 Contact Foto 1 (Description): The old tram line before reconstruction



EUROPEAN UNION European Regional Development Fund ELECTRON CELLS ELECTRON CELLS ELECTRON CELLS 🕅 ta da da terrar man Madad da talam aran 🛛 🦉 manataranan mana







31. Mai, Anrelse nach St. Pölten:

NÖ Landesregierung Landhausplatz 1 3109 St.Polten

ab St. Pölten Hauptbahnhof (Süd) Bus 4 (Richtung Unterradlberg Gewerbepark) Bus 9 (Richtung St. Polten Arbeitergasse) Bus 6 (Richtung St. Polten Traisenpark) bis "Tor zum Landhaus"



1. Juni, Anrelse nach Záhorská Ves:

Obecný úrad Záhorská Ves Hlavná 29 90065 Záhorská Ves

Nordbahn (Regionalization Stracks 930) ab Wien Nord bis Angern Fähre von Angern nach Zähorskä Ves



Boden zum Begreifen,

Bodenschutznetzwerk im Donauraum

SONDAR-Tagung in Kooperation mit 11. ELSA-Jahrestagung 2012

31. Mai und 1. Juni 2012 in St. Pölten (Niederösterreich) und Záhorská Ves (Slowakei)



unter Beden

SONDAR







Kenting the factors







Awareness raising

- Through the information on the meaning and functions of soil and sustainable management for decisionmakers and the public,
- Project launch of the website

Work with schools:

- Production of painting boxes from earth, international competition in painting
- Organization of training for art teachers, common exhibitions.









 project "Painting with earth colours", where scholar pupils and adolescents participating in the competition in painting with soil colours in their region





Testing of pigmentation of soil colours









The winning art works in Slovakia: 1st grade and 2nd grade schools









Evaluation of the competition of children's art works in Záhorska Ves on MPRV SR

unser Boden

The exhibition of children's art works on MPRV SR

























- Indication of areas affected by risk flooding on the base of soil maps and modelling of hydrolines
- Create conditions for the prevention of natural threats floods and to protect citizens and stakeholders against flood
- Training (manual) how to use soil maps in cases of flood risks and capture the local fire departments, rescue teams and local NGOs









Modelling area Angern an der March - Zahorska Ves









Identification of flooding areas

- Fluvial sediments can indicate each flood during 1000 years, these sediments (layers) can be rather well identify and diagnose in the soil profile
- On the river Morava there were recorded extreme flood events in 1996, 2002 and 2006
- The identification of such areas is possible on the basis of soil units as Fluvisols, Gleysols, respectively their subtypes





Field soil survey SK - AT





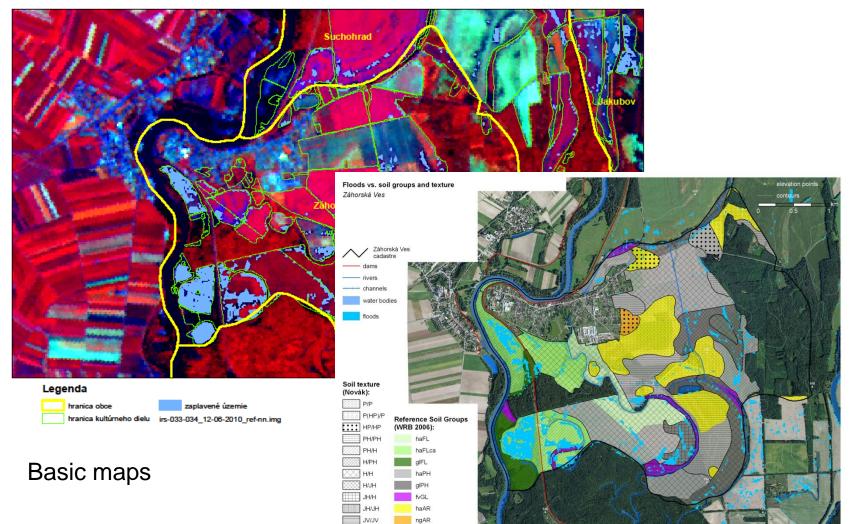
Endogleyic Arenosol

Glevic Phaeozem











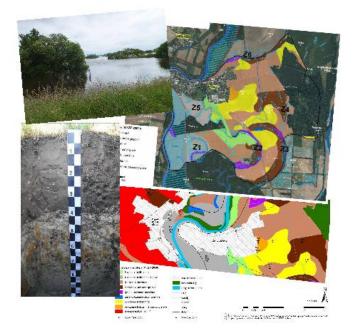






Pôda ako indikátor povodní

Pôdne mapy ako nástroj pre predpovedanie povodní a zvyšovanie povedomia o pôde





Soil survey of the Slovak-Austrian area, film making about project













Elaboration of the program and training course content: Soil conservation (in interaction with water). Implementation of 2 training courses on soil protection:

- 1st type of training program for the children's population until 15 years and for the general public, NGOs and others
- 2nd the type of training program for stakeholders such as local government, land owners, land offices workers, planners and others
- The important role: to integrate them into the international actions on land, the cooperation of all stakeholders in the European Land and Soil Alliance (ELSA).







European Land and Soil Alliance (ELSA)

MANIFEST European Land and Soil Alliance (ELSA)









EUROPEAN UNION European Regional Development Fund Working meeting with Austrian partners in Lilienhof

1 SONDAR SK-AT, Projektmeeting 12.11.2012 – St. Pölten, Lilienhof



Bedding boxes with vermicomposting









Bedding boxes with vermicompost and earth delivered for 5 schools in BA VÚC









Work package balík WP5





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WHOF Bradichava	Jan HRIBIK	jihribik,ovupqu sk	trahile .
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Numerous workshops and Minutes to them







Very good and cordial cooperation with Austrian colleagues, but also with workers Vodohospodárska výstavba







On behalf of the SONDAR team thank you for your attention!





