

Local pilot fact sheet

Project partner organisation: Soil Science and Conservation Research Institute, Bratislava

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Name of the local pilot application area: Bratislava

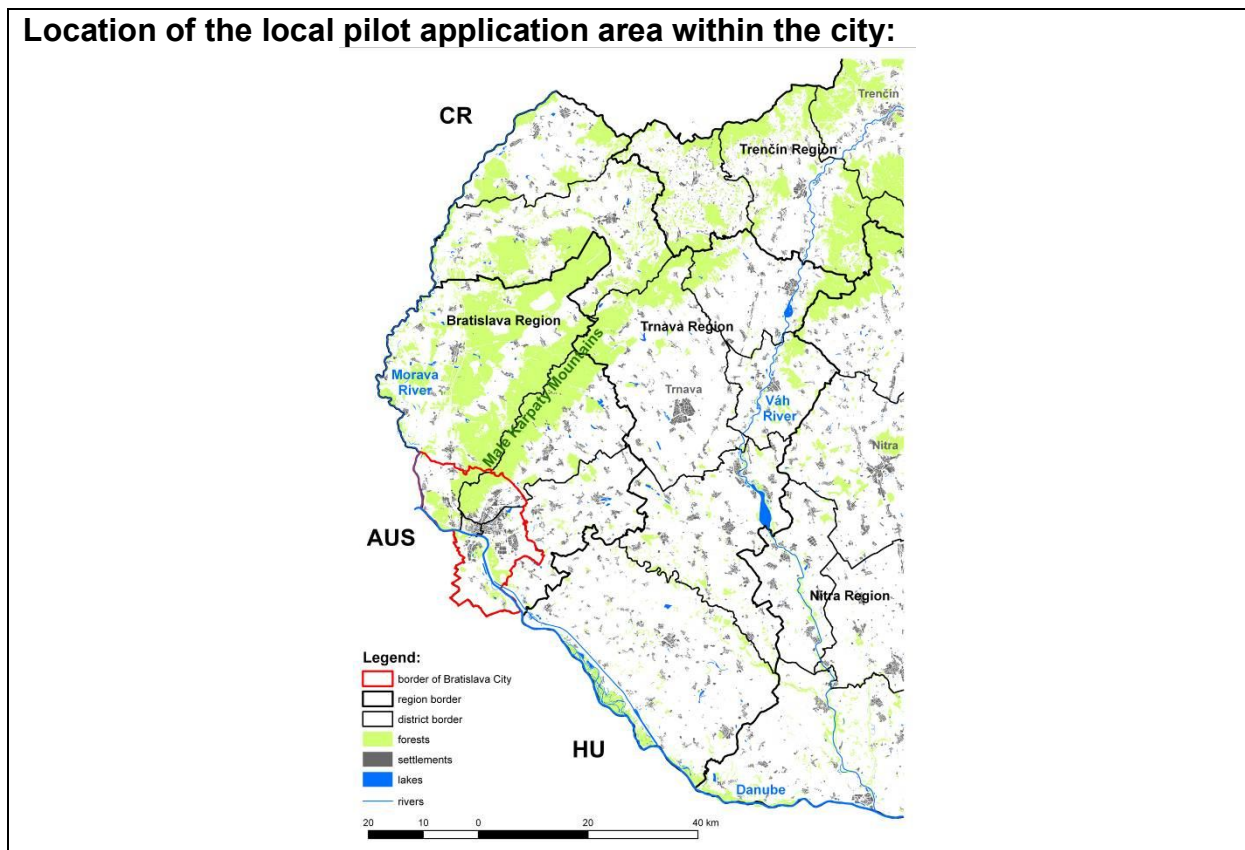
Area: 367.6 km²

Land use (recent and planned): Differently focusing on several land use in the area of city Bratislava: agricultural land, whole area, playgrounds, lowland area.

Status of urban planning: Currently use respecting urban plan designed to the year 2013.

Legal aspects: Respecting the Act No 220/2004, following Act No 219/2008; and the decree No 376/2008 is related to the assessment of agriculture soil, Methodical guideline MSPNM a SKŽP No. 130/1992 on threshold limits of soil and water contamination, General binding urban plan of Bratislava city No. 4/2007 May 31, 2007, Act No. 126/2006 on playground and sand boxes and all-European precautionary norms EN1176 a EN1177. Ownerships of areas are distinguished by various land users.

Location of the local pilot application area within the city:



Aerial photograph of the local pilot application area:



Picture(s) of the area:



Fig. 1 Sub-urban agricultural land



Fig. 2 Open green area in the city



Fig. 3 Abandoned playground (sand box)



Fig. 4 Sealing areas in the historical part

Situation of the area: About 40% of agricultural land is occurring on the administrative area of Bratislava. For soil consumption mostly agricultural land is used (95%) and the pressure of developers is enormous mainly on high-quality soils. Similarly soil functions in the city are practically unknown and loss of soil resources reduces its potential for beneficial soil functions providing. Some areas like kinder playgrounds are under threat to be contaminated or degraded in the vicinity of chemical plants. Analytical results showed the high contamination of these areas if they have been used for a long time without any remediation measures. On the lowland area of Bratislava the menace of flooding is very often along the rivers Morava and Danube. The preventive information on areas characterized by potential risk flooding would be helpful for urban designers and planners.

URBAN SMS-activities foreseen in the area: The importance of soil in urban planning is underestimated. Area of Bratislava city will be tested from the point of view some tools which can improve consideration of soil in urban planning and enhance awareness. The display the high-quality soils under Slovak legislation for soil protection as well as areas of soil functions which have to be conserved will be presented. Also tool for loss of soil resources will be applied and displayed respecting Municipal soil manager. The specific tool for identification of playgrounds which are threatened by contaminated sources in Bratislava will be provided on the available analytical data. By inputs of precipitation data and soil-water drainage into the model the maps of potential risk flooding will be provided. All documentation will serve to urban planners and designers for appropriate decision-making.

Goals/strategies/tools to be applied:

Aimed goals:

- G1 Reduced quantity of soil consumption rate & soil sealing.
- G2 Sustainable use of soil considering soil quality (provision of soil functions).

Applied strategies:

- S1 Improving consideration of soil in spatial and urban planning on all levels
- S2 Improving legislation in terms of soil protection as well as proposing an unified legislation approach in CE
- S3 Awareness rising to soil as a natural resource
- S4 Establishing regional cooperation in soil management
- S5 Applying sustainable soil management to soil consumption processes
- S6 Involving stakeholders/ decision makers at an early stage of management strategy

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|-------------------------------------|----|--|
| <input type="checkbox"/> | S7 | Improving management for degraded urban areas |
| <input type="checkbox"/> | S8 | Introducing compensation and validation of soil functions as market instrument |
| <input type="checkbox"/> | S9 | Increasing of inner development |
| Tested tools: | | |
| <input type="checkbox"/> | T1 | Guidance for soil in SEA/EIA (3.3.2) |
| <input checked="" type="checkbox"/> | T2 | Soil manager Suite (software) including several tools (4.4.4) |
| <input checked="" type="checkbox"/> | T3 | Pilot case application (5.3.3) |
| <input checked="" type="checkbox"/> | T4 | Guidance on how to introduce and apply compensation measures; to be used as market tool (parts of 6.1.4) |
| <input type="checkbox"/> | T5 | Recommendation for successful stakeholder participation (6.3.2) |
| <input checked="" type="checkbox"/> | T6 | Awareness rising package providing a collection of facts and arguments (6.3.4) |
| <input type="checkbox"/> | T7 | Report brownfield redevelopment (6.1.3) |

Start of the URBAN SMS-pilot-activities: 12/2010

End of the URBAN SMS-pilot-activities: 04/2011

Evaluation of results foreseen until: 09/2011