Project Meeting
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LUMAT - Action Plan Tool Concept (LUMATO)

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LUMAT TOOL

- LUMAT Pilot Area - Green Ring Leipzig
  - Cooperation of 13 Municipalities and two Counties
  - Existing database system being used, maintained by external IT company
- LUMAT activities include:
  - Analysis and evaluation of „Threats“ in the pilot area
  - Compensations measures on threatened land parcels “for more livable places!” (CE Objective 3.3)
  - Development of Tool

Source: Grüner Ring Leipzig
Feedback we have received from Green Ring Leipzig:

- They do not want/cannot accept any additional tools or software to add to their existing tools!
- What is missing is an integrated environmental approach to threats

**Tool Goal: Define a LUMAT vision and context appropriate solutions**

- To be supported with a tool in GRL:
  - Inter-municipal communication
  - Integration of evaluation of different disciplines
  - Various access points to the tool (writing and guiding permissions)
LUMAT Pilot Area Tools to be **Homogeneous Dataset**
INSPIRE Grid (Pilot Area Germany has 78,000 100mx100m cells)

Reasons for using an INSPIRE Grid:
1. Homogeneous information base (FUA, Central Europe, even EU-wide!)
2. Protection of personal information (for example identification of property owners, generalisation required when presenting information to the public)
3. Compilation of various sectoral disciplines into the tool (integrated environmental management!)
4. EU-wide INSPIRE guidelines for gathering environmental information
5. INSPIRE Grid (GIS Shapefile) quickly implementable into existing organisations (no new software required, no new skills required for those already working in GIS)
6. Steer ecological compensation measures to “**Make the places more livable!**”
The tool consists of multiple layers (for the visualisation of threats in the FUA) - example 1/7

1. LUMAT Pilot area
Core and commuting zone
(Eurostat/OECD Methodology)
The tool consists of multiple layers (for the visualisation of threats in the FUA) - example 2/7

1. LUMAT Pilot area
   Core and commuting zone

2. Land use cover or other information
The tool consists of multiple layers (for the visualisation of threats in the FUA) - example 3/7

1. LUMAT Pilot area
   Core and commuting zone

2. Land use cover or other information

3. THREAT Brownfields, Greyfields
The tool consists of multiple layers (for the visualisation of threats in the FUA) - example 4/7

1. LUMAT Pilot area
   Core and commuting zone

2. Land use cover or other information

3. THREAT Brownfields, Greyfields

4. THREAT Overwarming
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The tool consists of multiple layers (for the visualisation of threats in the FUA) - example 5/7

1. LUMAT Pilot area
   Core and commuting zone

2. Land use cover or other information

3. THREAT Brownfields, Greyfields

4. THREAT Overwarming

5. THREAT Overfertilisation
The tool consists of multiple layers (for the visualisation of threats in the FUA) - example 6/7

1. LUMAT Pilot area
   Core and commuting zone

2. Land use cover or other information

3. THREAT Brownfields, Greyfields

4. THREAT Overwarming

5. THREAT Overfertilisation

6. THREAT New Soil Sealing
The tool consists of multiple layers (for the visualisation of threats in the FUA) - example 7/7

1. LUMAT Pilot area
   Core and commuting zone

2. Land use cover or other information

3. THREAT Brownfields, Greyfields

4. THREAT Overwarming

5. THREAT Overfertilisation

6. THREAT New Soil Sealing

7. THREAT Flooding Hazard Land
INTEGRATED ANALYSIS THREATS (EXAMPLE)

- Flooding Hazard Land - Yes
- New Soil Sealing - No
- Overfertilisation - No
- Overwarming - Yes
- Brownfields, Greyfields - Yes
- Land use cover or other information - 
  Core or commuting zone - Core
(2018) Combined Evaluated Threats in Pilot Area

INTEGRATED ANALYSIS OF THREATS

- Priority given through the setting of a point-based system
- Establish which threats should be addressed first, and which can wait accordingly
- Give stakeholders a quick overview of the areas of action for ecosystem improvement
- Improve cross administrative and sectoral communication!
Specific actions can be proposed to mitigate certain threats, for example:

Brownfields - ACTION:
- Create green spaces (urban or rural in nature)
- Desealing, revitalisation
- Renovation into new urban uses (feasibility studies)

Overwarming - ACTION:
- Desealing (to increase evaporation and further cooling functions of soil)
- Create urban green structures on brownfield sites

Overfertilization - ACTION:
- Limit the intensive use of fertilizers on sensitive soils
- Protect ground water bodies from pollution

Other Threats...
Monitoring Environmental Services Improvement

• For example - deconstruction of a brownfield takes place, ecosystem services are improved because soil functions are restored/improved, thus parcel get a check (✓).
• Checks can be spatially arranged to show where improvement has taken place, and where threats still should be treated in the future
• Obtain existing funds for mitigating threats
• General base for environmental compensation

Example: next site with a high priority for action to be done on
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- Feedback: we would like to know -
  - Your ideas to this LUMAT Tool concept
  - Your potential interest in such a tool?
- PP3 can assist in the creation of a Grid layer for your pilot area, this depends on the INSPIRE guidelines in your region and FUA boundaries
  - For example, Germany uses the UTM coordinate system
  - Need to know what is required for partner countries!
- Compiling the common action plan concept with input from each region
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- Planned activities 2018:
  - Defining priority setting of threats, adaptation to local context
  - Defining actions to improve ecosystem services of a grid cell
  - Mapping the improvements of the area (monitoring)
Thank you for your attention!

Cheers,
Bernd, Karl and Uwe