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Best practice:  
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Rain garden to divert rainwater from road in Šamorín

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# Excess rainwater on streets

- Situation BEFORE (till 06/2023)
- Non-permeable surfaces in cities (solid surfaces – asphalt, concrete and compressed soil)
- Water vapour is a greenhouse gas
- Land is missing humidity

Before



# Establishing a rain garden I.

Phase 1 – July 2023:

Physical terrain reconstruction

(ditch filled by permeable material,  
covered by heterogenous substrate  
and gravel)

*3 days of work*



# Establishing a rain garden II.

- Phase 2: Planting of resistant plants

3 zones

*Humid* -

Juncus effusus, Iris pseudacorus

*Temporarily humid* – Lythrum salicaria,

Myosotis arvensis

*Arid* – Achillea millefolium, Alchemilla sp.,

Geranium sp.



# Best practice because....

- Small budget ( around 5000 eur)
- Puddle gone within about 3 hours
- Attractive spot instead of „brown field“
- Almost no maintenance needed

## Interdisciplinary approach

- In implementation biological knowledge had to be used (assessing biotop quality)
- Project consulted with the town hall's building and enviro department
- Slope was examined beforehand
- Cross-sectoral cooperation

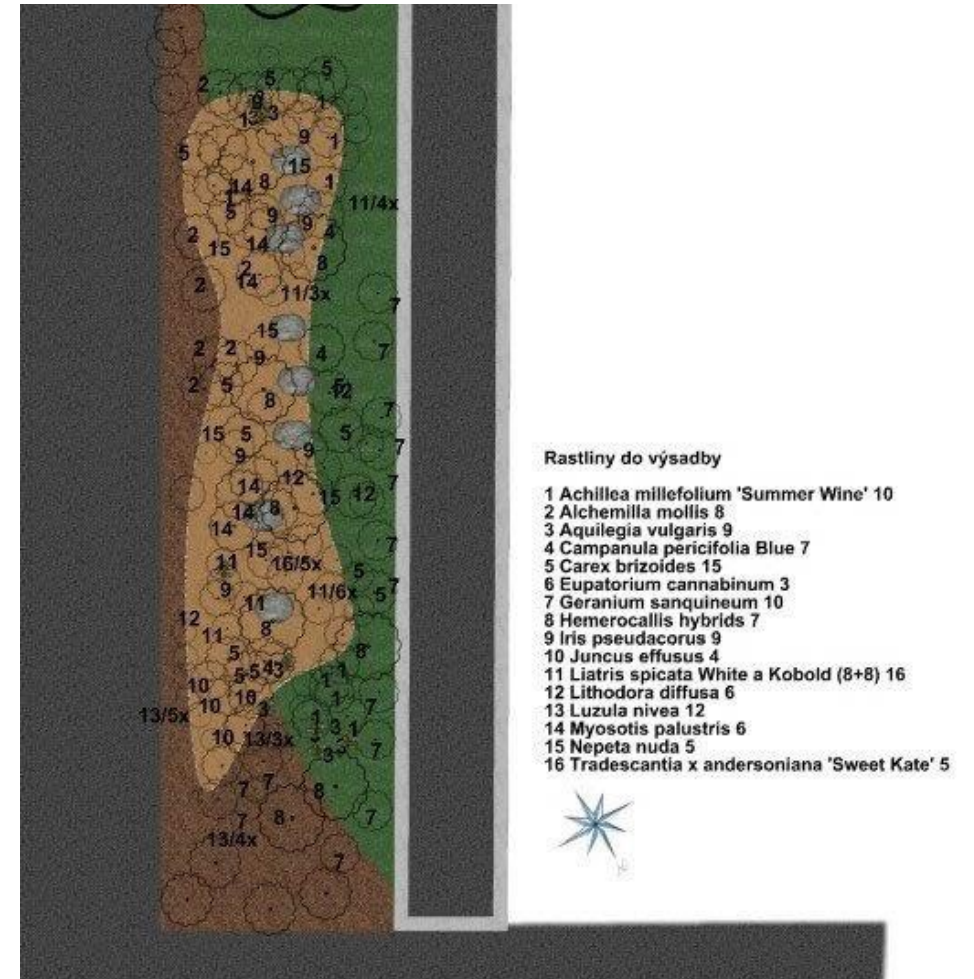


# Involvement of community

- Participatory budgeting
- Idea inflow from citizens secured
- Citizen votes

## Risks

- Trespassing
- Natural succession
- Winter anti-freeze road management



# Adaptation possibilities and limitations

- Scale limitation
- Geographic limitation (terrain gradient)
- First months management-dependent (watering)
- Best working with proper road construction

After

