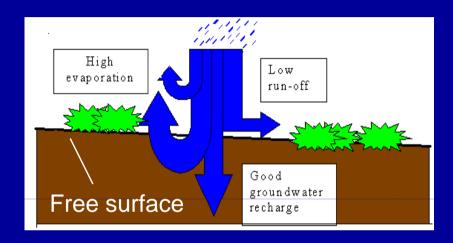
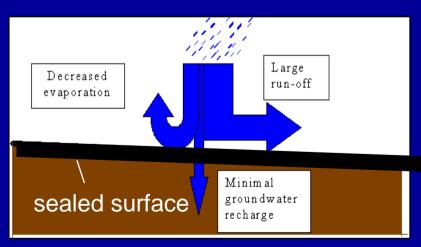


The impact of deforestation, agriculture and urbanization to the country:





- infiltration and evaporation reduced, runoff increased
- Around 250 million m3 of rainwater are drained from damaged forested landscape and intra-urban areas of Slovakia



















daily input of solar radiation

Flows of solar energy in the country

70-80%

evapo-

transpiration

evapotranspiration 10-20% sensible heat 60-70% heat flux to the soil 5-10%

drained field

sensible heat 5-10% reflec- reflec-

tance ' tance 5-10% 5-10% reat flux to the soil

> pond, meadow, forest landscape saturated with water









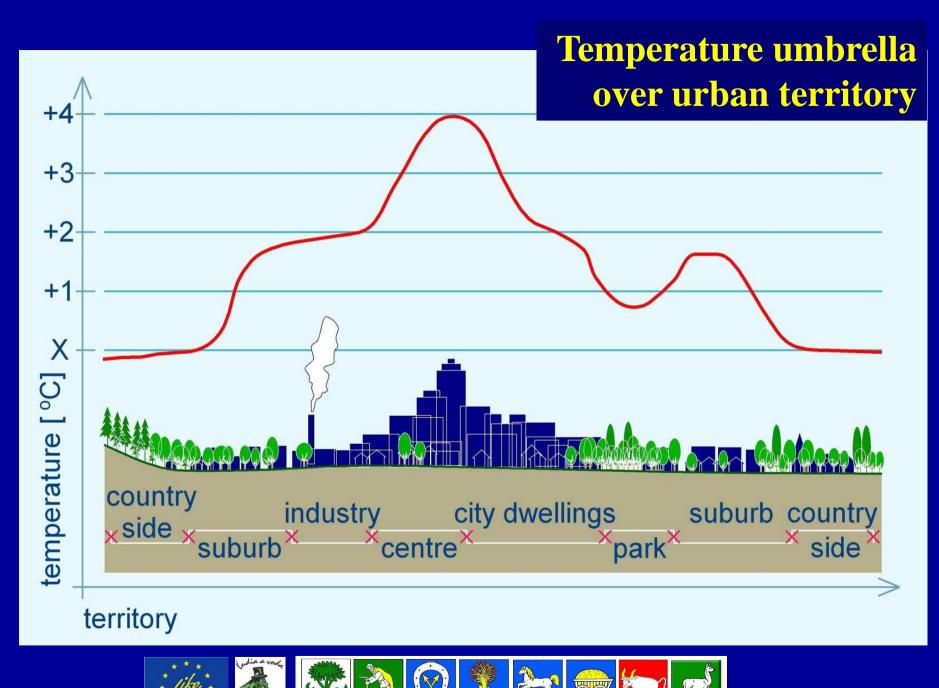




















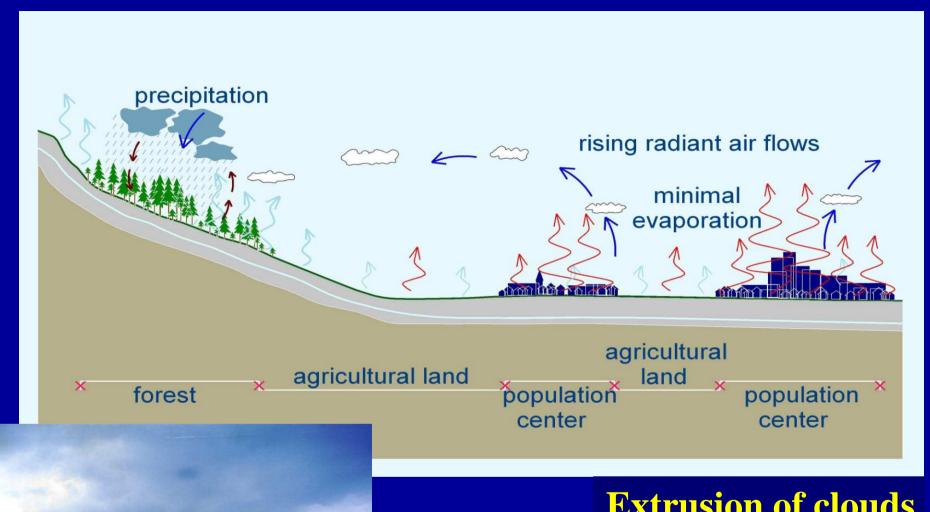














Extrusion of clouds in the mountains











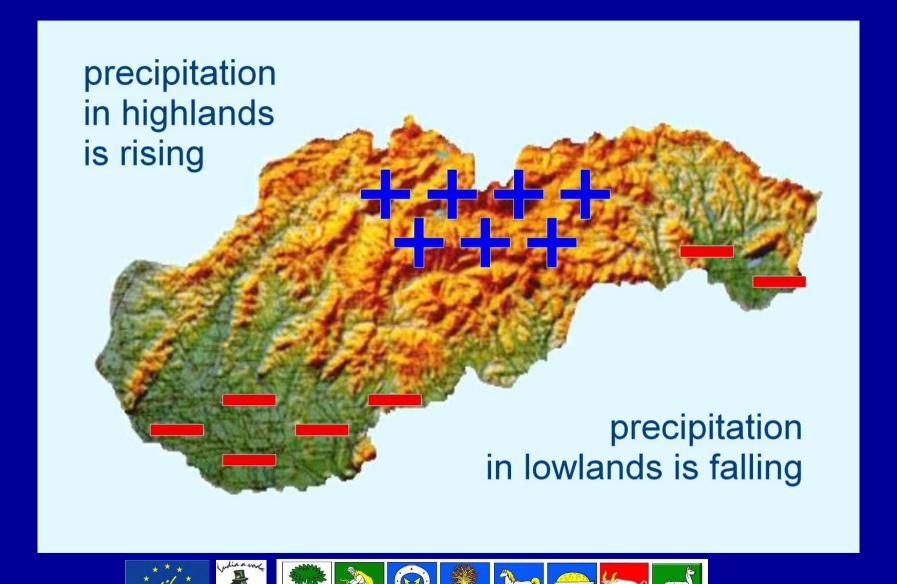




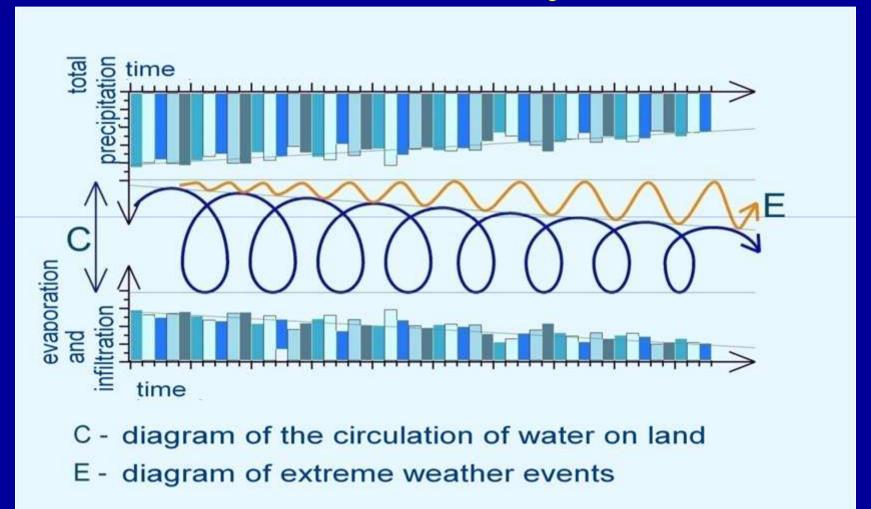




Slovakia in the 20th century



Weather extremes when water loss Small water cycle













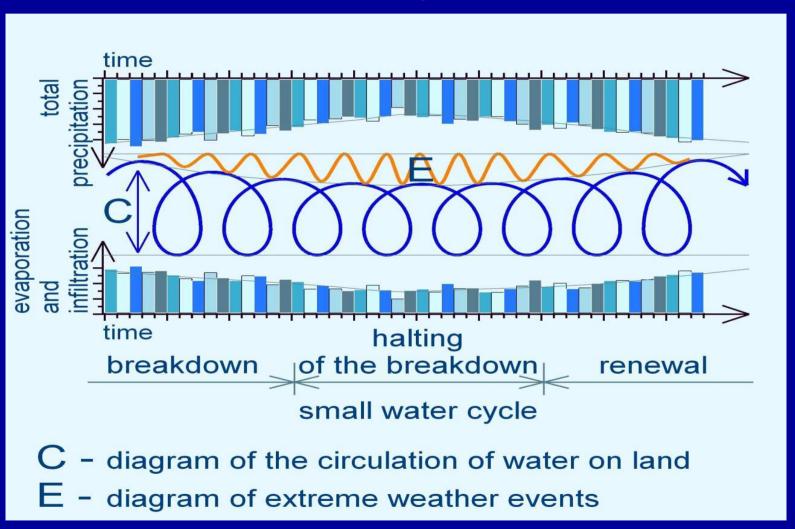


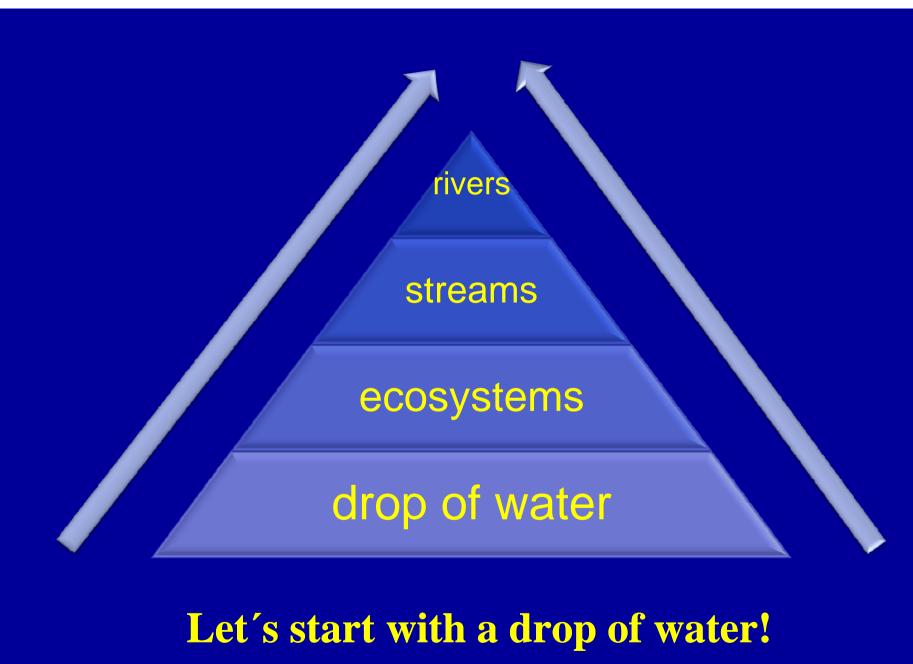






Destruction and restoration of small water cycles

























Microstructures for the rainwater harvesting on land

Contoured barrages

Terraces

Eyebrow terraces

Pits

Vallerani-type microcatchments

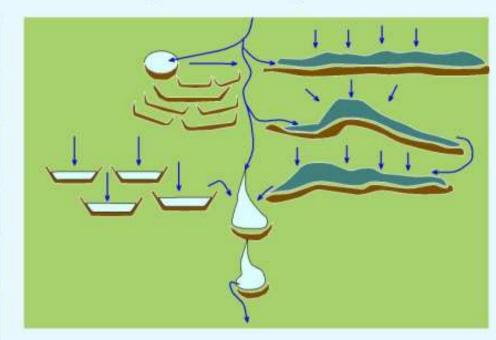
Semicircular bunds

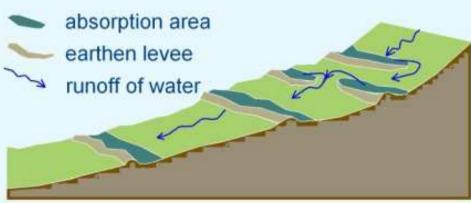
Triangular bunds

Meskat

Negarim

Combination of different rainwater harvesting technologies



















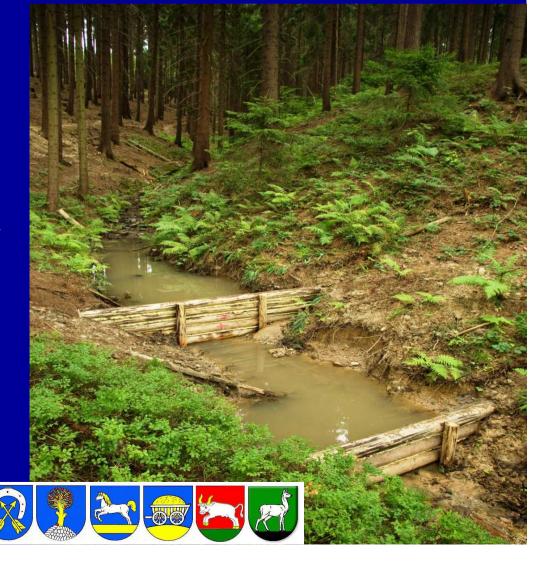






Benefits of harvesting rainwater in the country

- water resources
- flood prevention
- erosion protection
- stabilization of climate
- biodiversity
- cheap and effective
- and for the people ...

























- Forest land: 3537,5 ha

-forest roads cca. 70 km -some in poor condition ravines and potholes watercourses

-Agricultural land: 3122,2 ha





















Erosion on roads

Erosion furrows in the country























































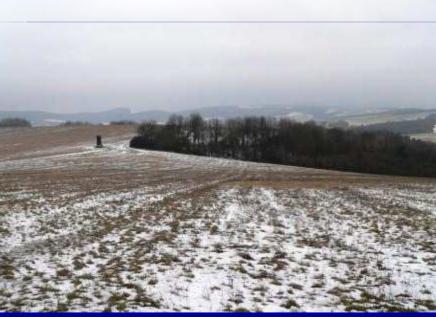


















































































































































"Damage" of the urban landscape















































