

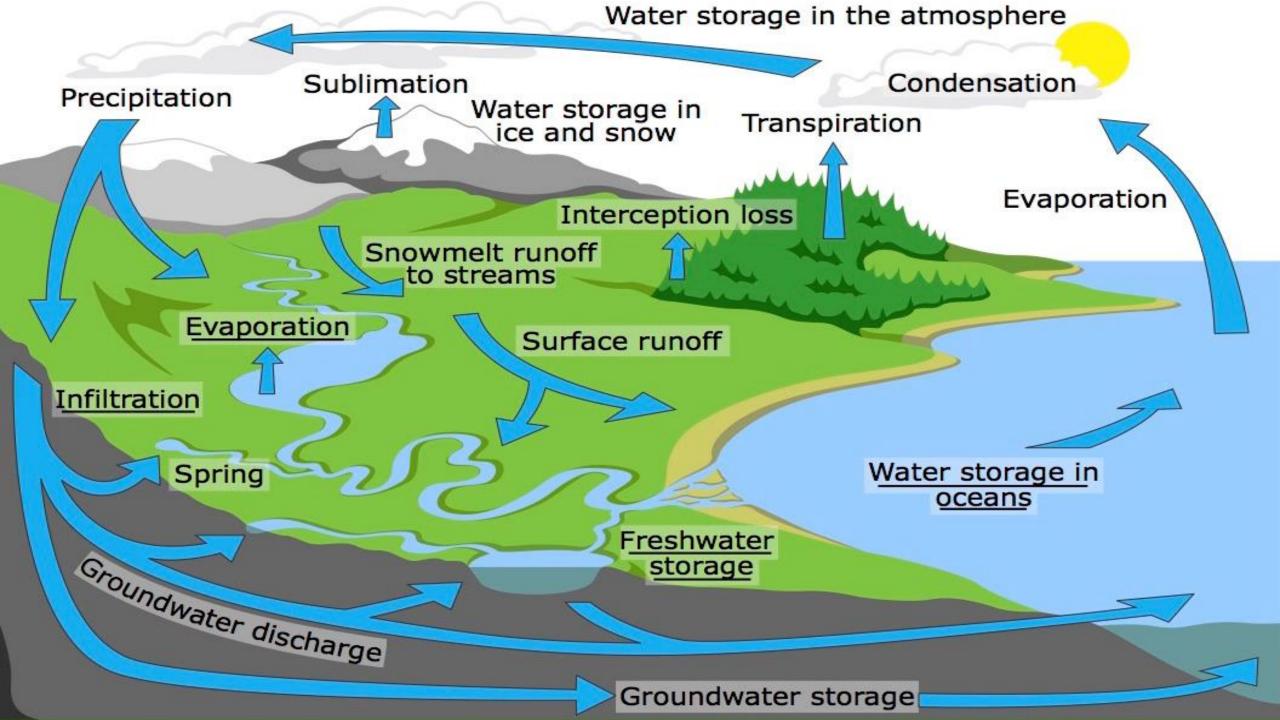
Libor Ulrych

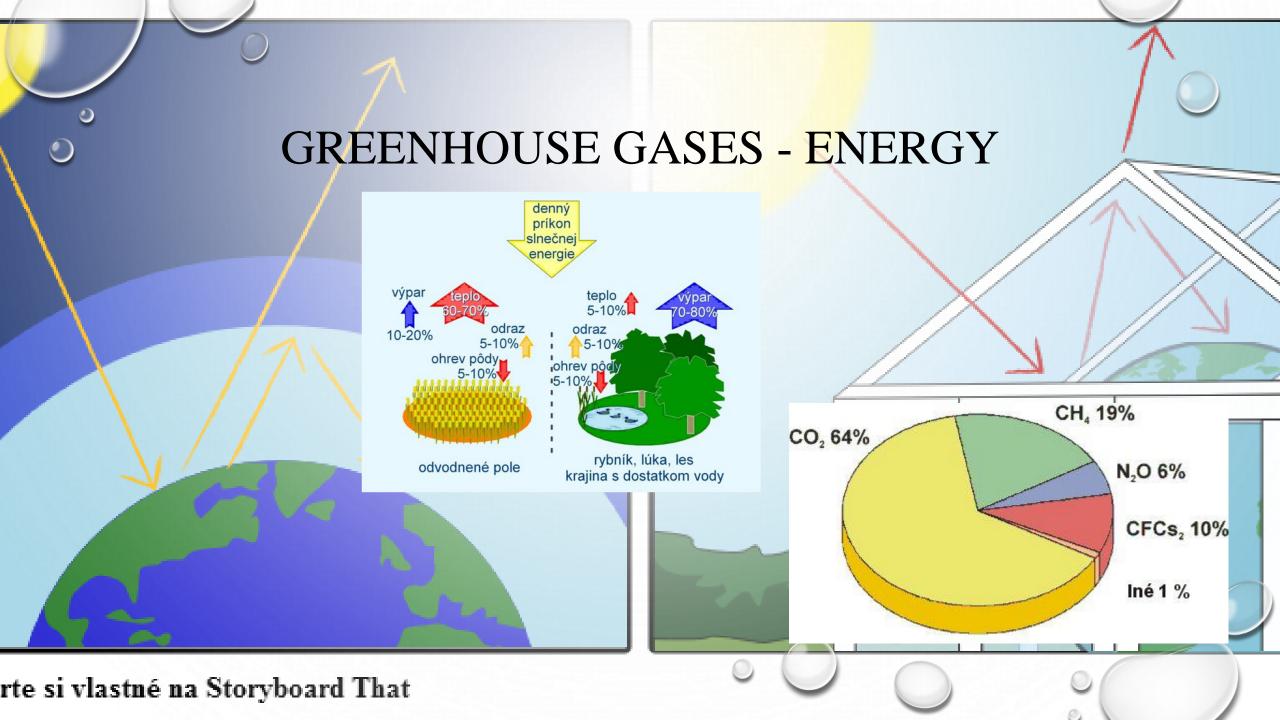
State Nature Conservancy of the Slovak Republic

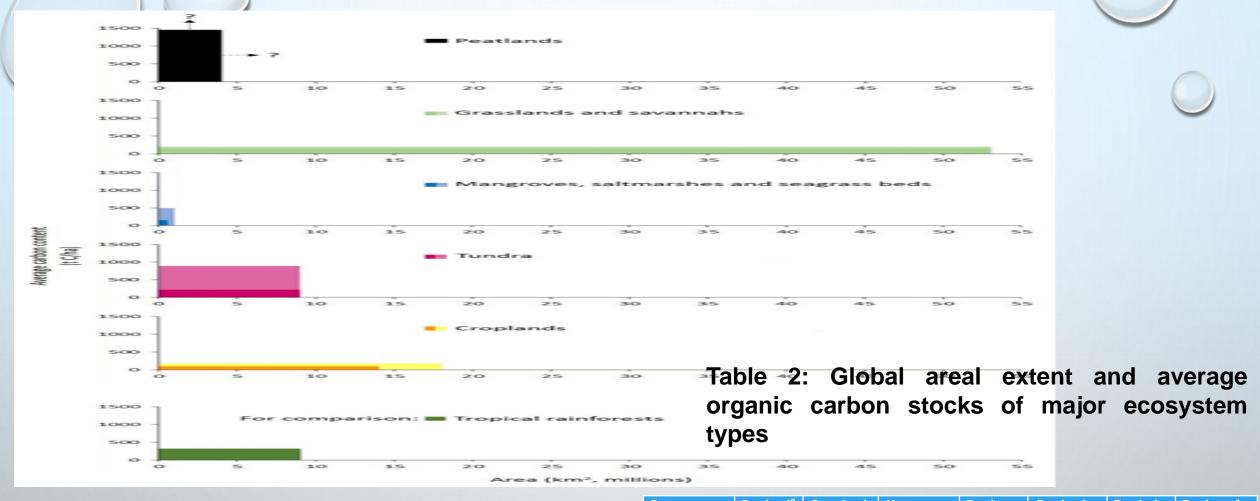
WG Forest CC, Zvolen 27.6.2019



12
$$H_2O$$
 + 6 CO_2 $C_6H_{12}O_6$ + 6 O_2 + 6 H_2O_6







Ecosystem type	Peatland°	Grassland / savannah	Mangrove, salt marsh, seagrass bed	Tundra	Cropland	Tropical rainforest	Total for global land area
Areal extent (km²)	4,009,23 8	52,500,00 0	489,000- 1,152,000	8,800,00 0	13,500,000 - 18,766,440	9,400,00 0	149,000,00 0
Average organic carbon stock (t C/ha)	1,450	150-200	140-480* *soil carbon included up to 1 m only	218-890	95-177** **soil carbon only, biomass carbon not included	320	191-205*** ***soil carbon included up to 2m only



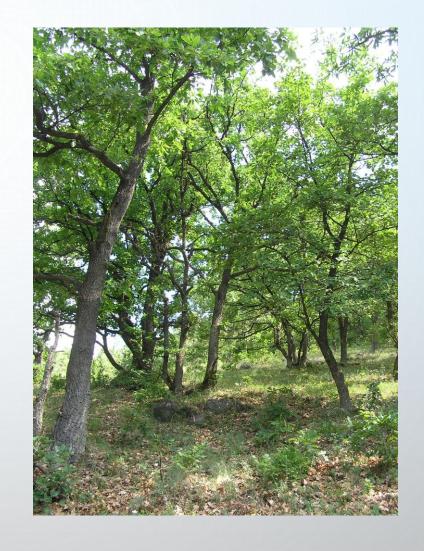
PROBLEMS

- Spruce forests
 - extrems of weather
 - disasters
 - bark beetle
 - management or natural regeneration?



PROBLEMS

- Oak forests
 - seed years
 - germination
 - impact of invasive plants



PROBLEMS

- Scotch pine forests on sandy sites
 - drying during long summer periods without precipitation
 - premature dying
 - invasive plants attack





QUESTIONS

- Management or natural processes
- Invasive plants introduction of suitable species
- Timber or surviving
- Carpathian mountains with Pannonian basin?



CHALLENGES

- National adaptation strategies ecosystem based approach
- Water catchment
 - geomorphological,
 - plant interception,
 - soil interception.



CHALLANGES

- Ecosystem services
 - valuation
 - prioritisation
 - state accounting



CHALLANGES

- New possibilities of services:
 - wilderness, natural development
 - agroforestry
 - zones



THANK YOU FOR YOUR ATTENTION

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