

FÖLDMŰVELÉSÜGYI  
MINISZTERIUM

**Forests and Water**

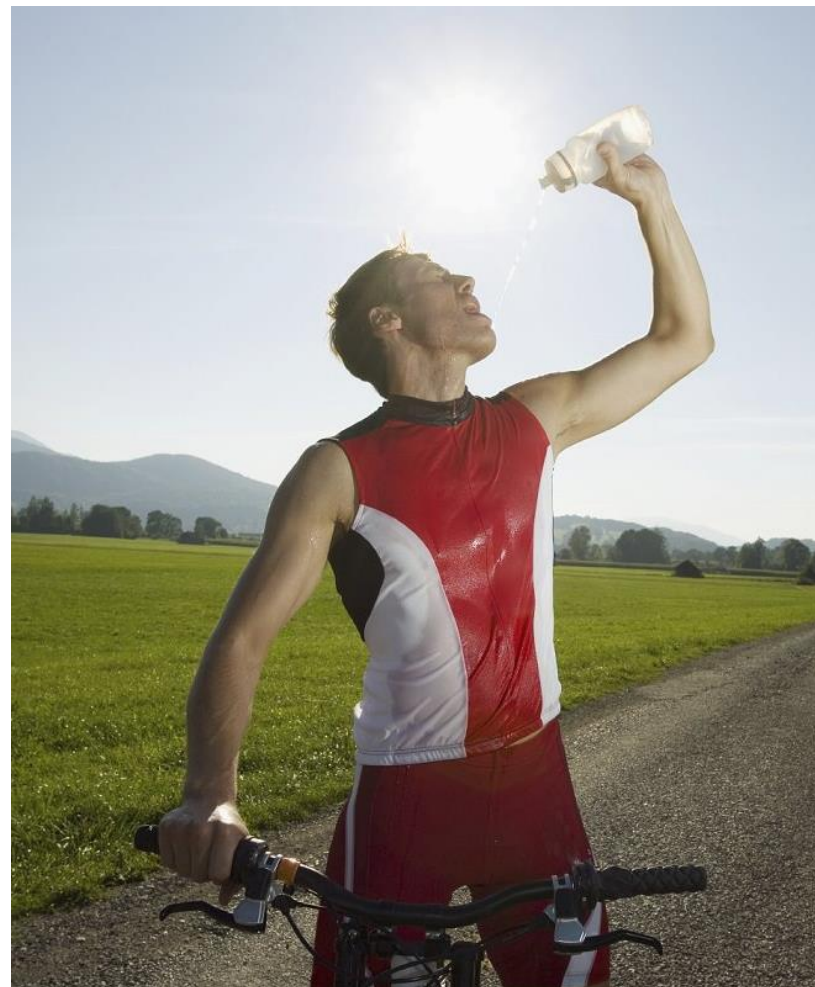
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Deputy Head of Department  
Ministry of Agriculture

Budapest, 17 October 2017



# The essence of life







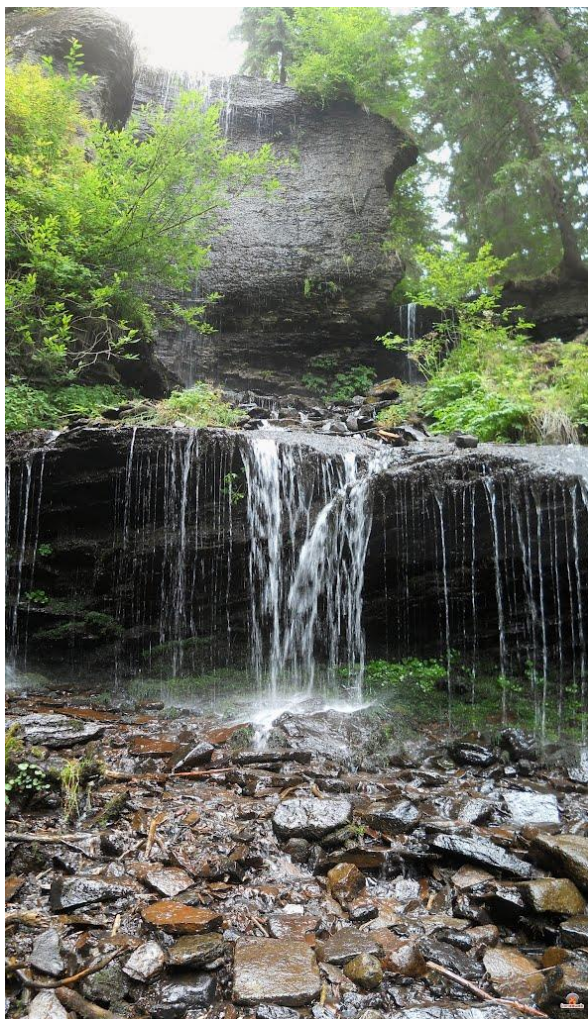
# Black and White







# Black and White





# Water

The essence of life

Positive

Negative

Cycle

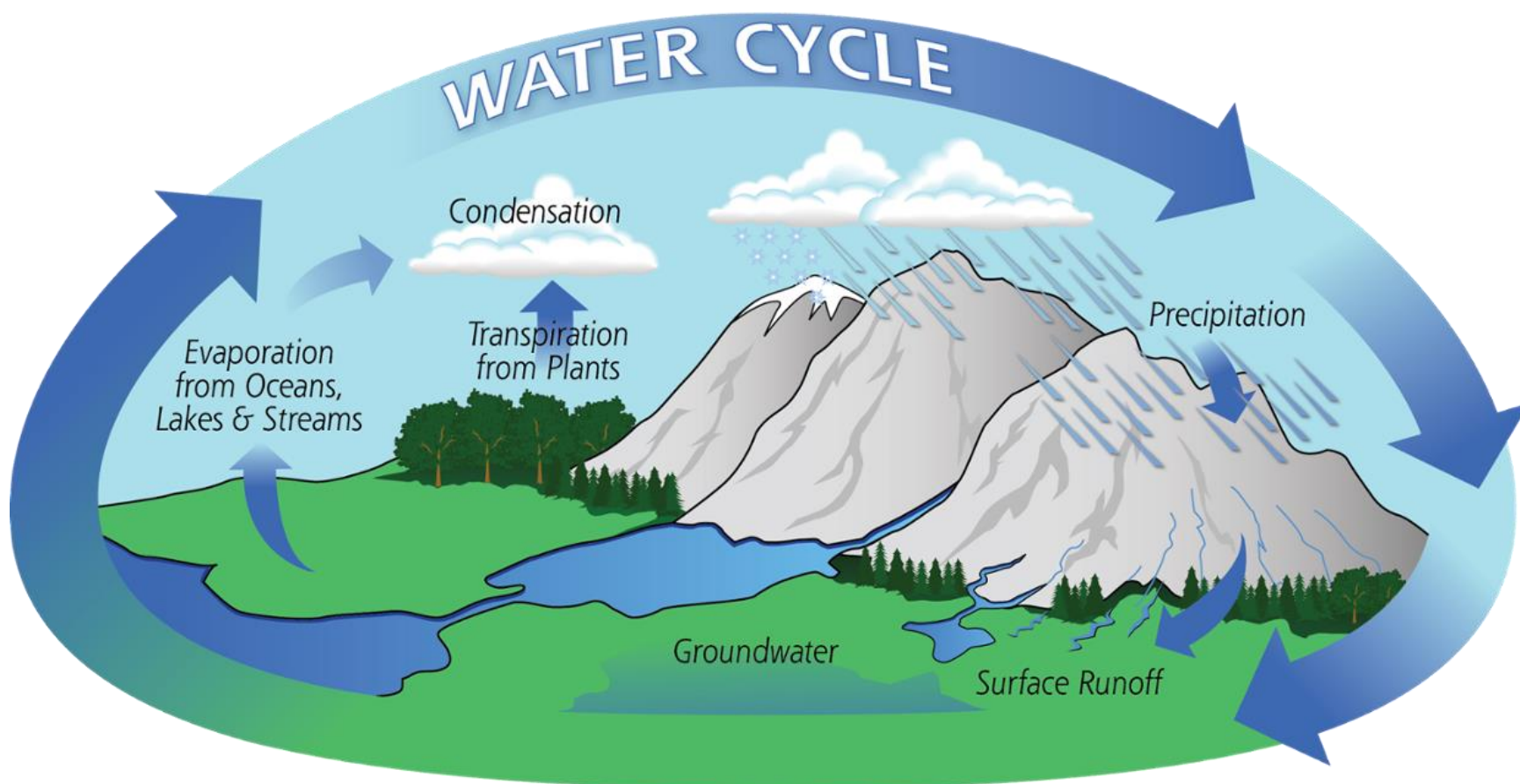
Balance

Erosion

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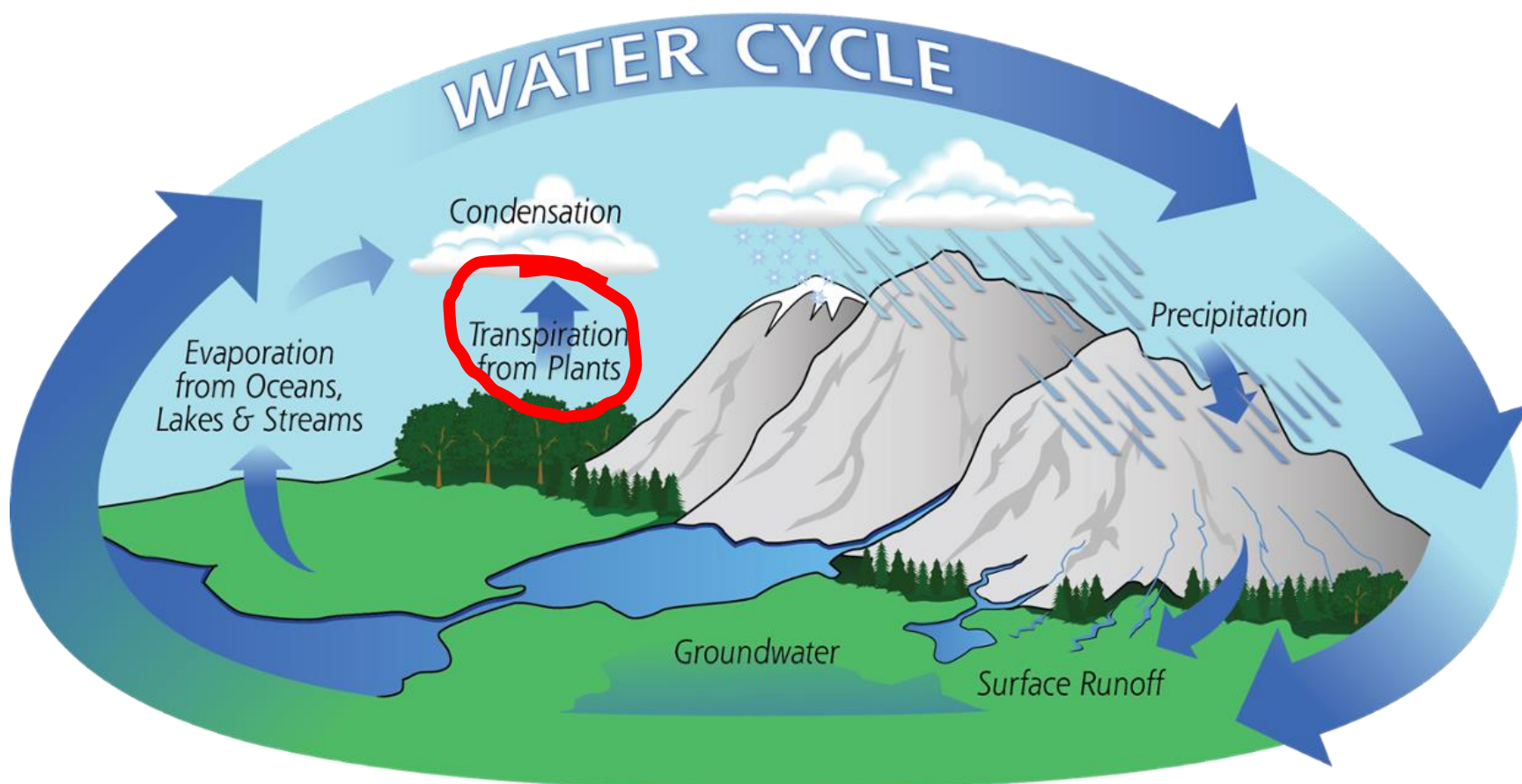
# What makes the difference?





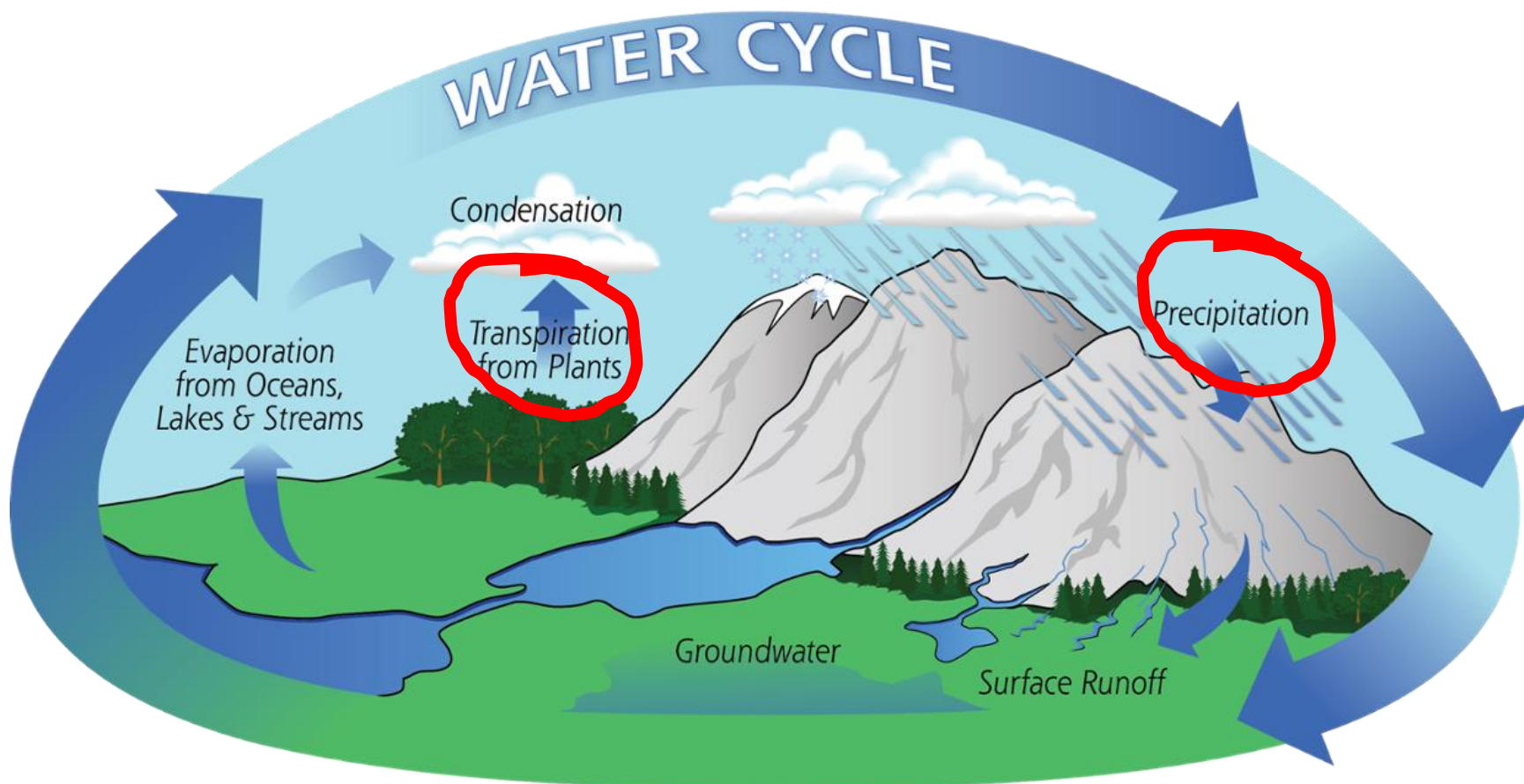


# What makes the difference?





# What makes the difference?







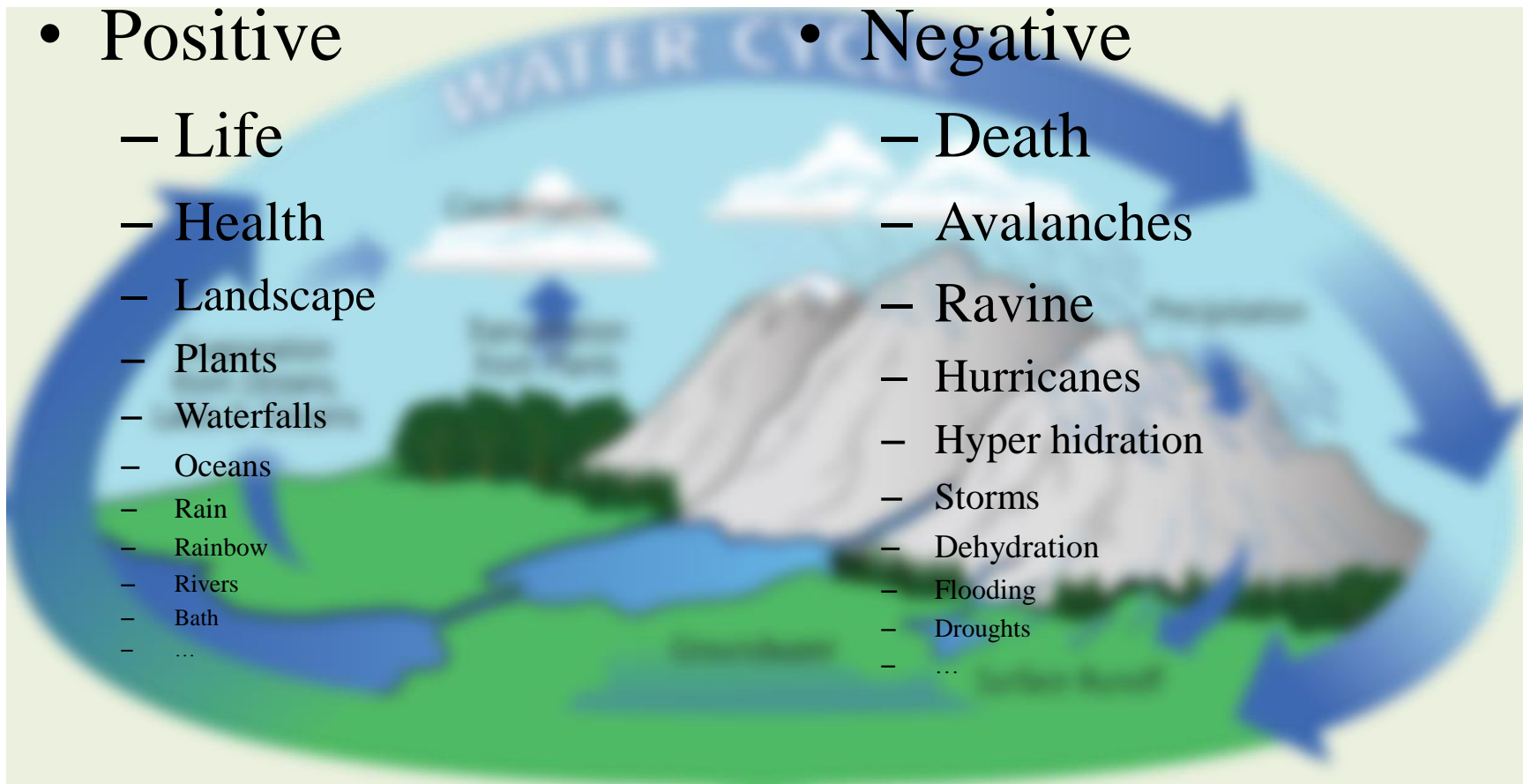
# What makes the difference?

## • Positive

- Life
- Health
- Landscape
- Plants
- Waterfalls
- Oceans
- Rain
- Rainbow
- Rivers
- Bath
- ...

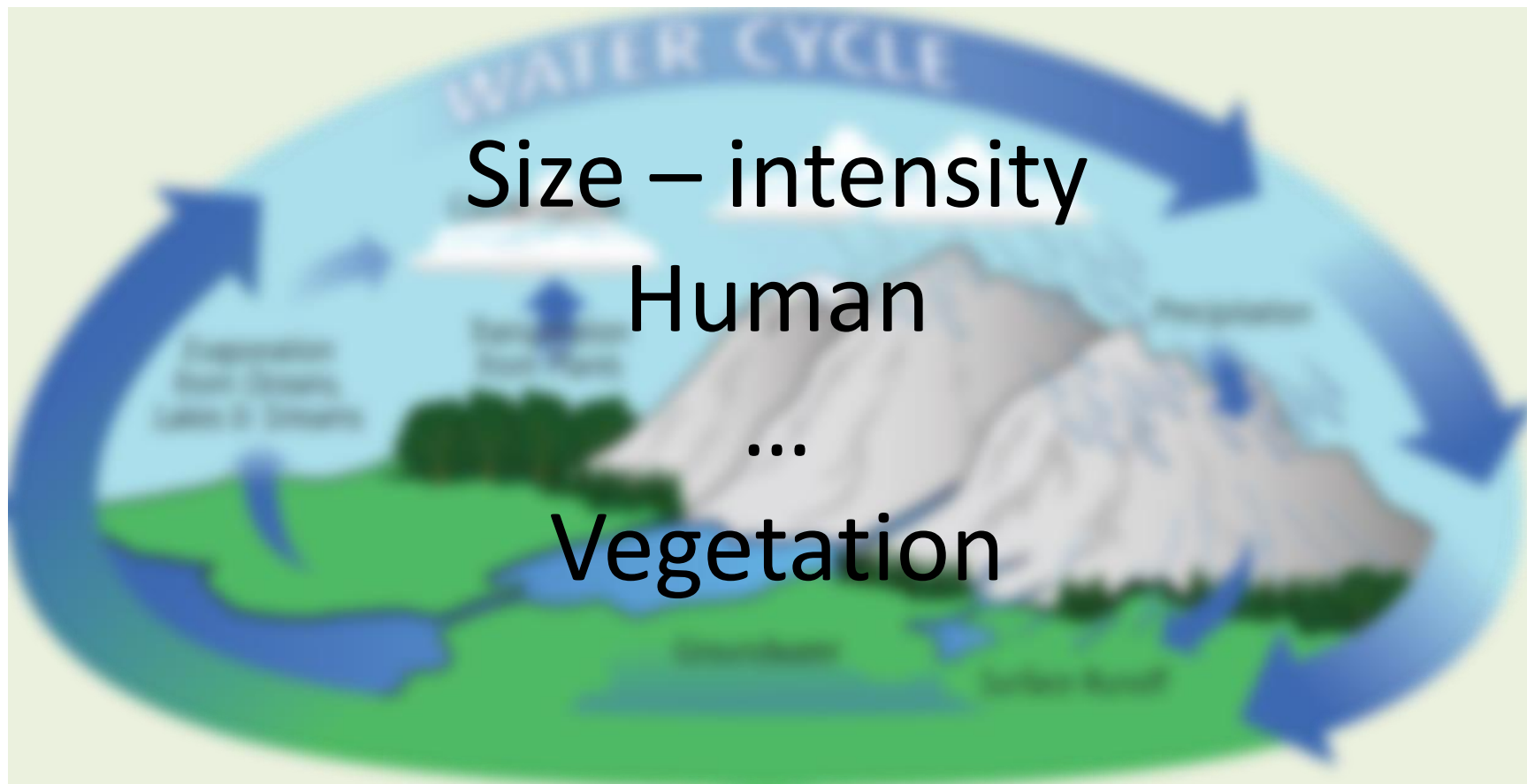
## • Negative

- Death
- Avalanches
- Ravine
- Hurricanes
- Hyper hidration
- Storms
- Dehydration
- Flooding
- Droughts
- ...





# What makes the difference?





# Forest

- a **station** in natural hydrological cycle which absorbs water, stores it temporarily and releases it in different ways
- claimers and **factors** affecting water balance
- suitable **tool** for solving the many tasks of water management
- close interlinkage

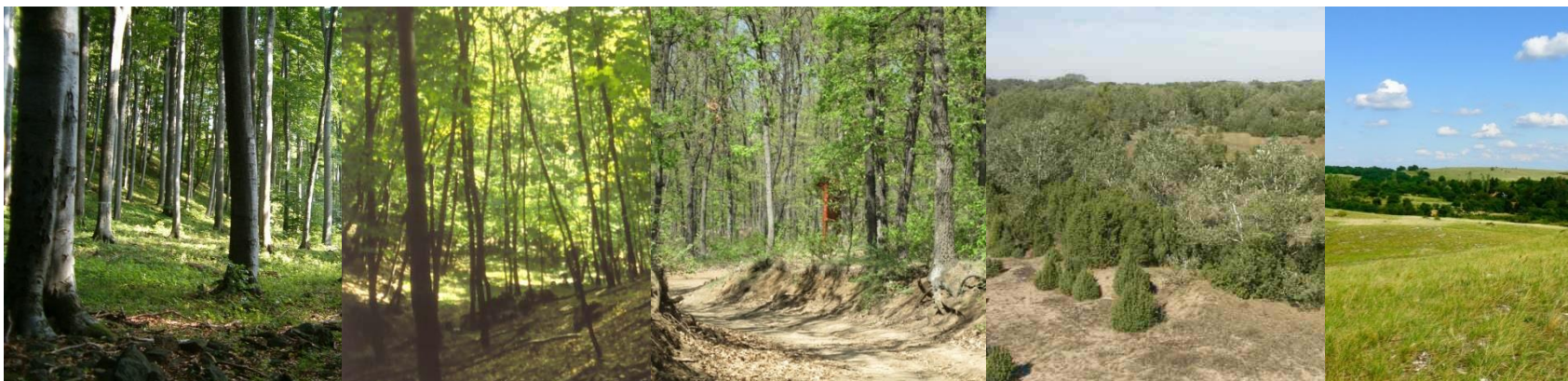




# Forest

| Forest climatic zone     | FAI       | Percipitation | Avg temp. |
|--------------------------|-----------|---------------|-----------|
| Beech                    | <4,75     | 731 mm        | 8,7 ° C   |
| Hornbeam – Oak           | 4,76-6,00 | 655 mm        | 9,7 ° C   |
| Turkey oak – Sessile oak | 6,01-7,25 | 557 mm        | 10,2 ° C  |
| Forest-steppe            | > 7,26    | 521 mm        | 10,6 ° C  |

$$FAI = 100 T_{(VII-VIII)} / (P_{(V-VII)} + P_{(VII-VIII)})$$





# Science



(species, density, trimming, water recoil)





## Results

- clarifying the role of forests in water catchment areas (forests with different composition, structure, age distribution and forest cultivation practices)
- re-assessment of the role of floodplain forests
  - protective function
  - biodiversity
  - production
- exploration of the flood and erosion problems of small watercourses (ravines)
- effects of forests in water quality protection







# Challenges

- Clear water as forest product
- Harmonize the goals of nature conservation, forest management and water management
- Water governance
- Drought management
- Flood management



*Thank you!*

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