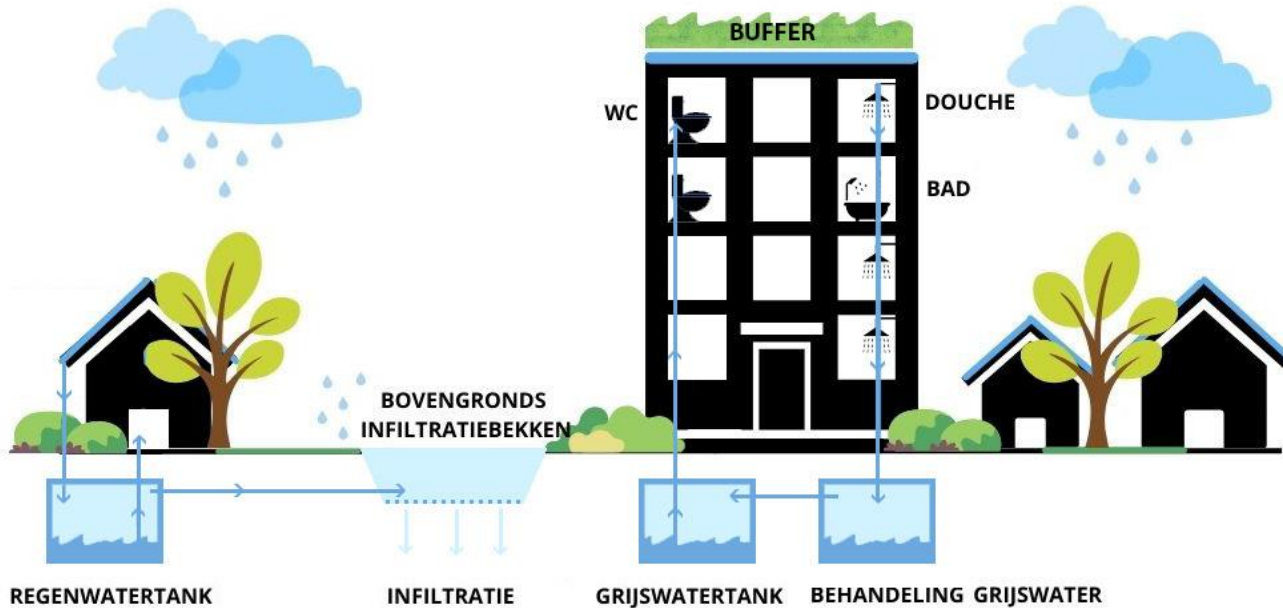


WATER-EFFICIENT BUILT ENVIRONMENT

INTRO - how we do it in Flanders?

Veerle Depuydt, VITO – Veerle.depuydt@vito.be



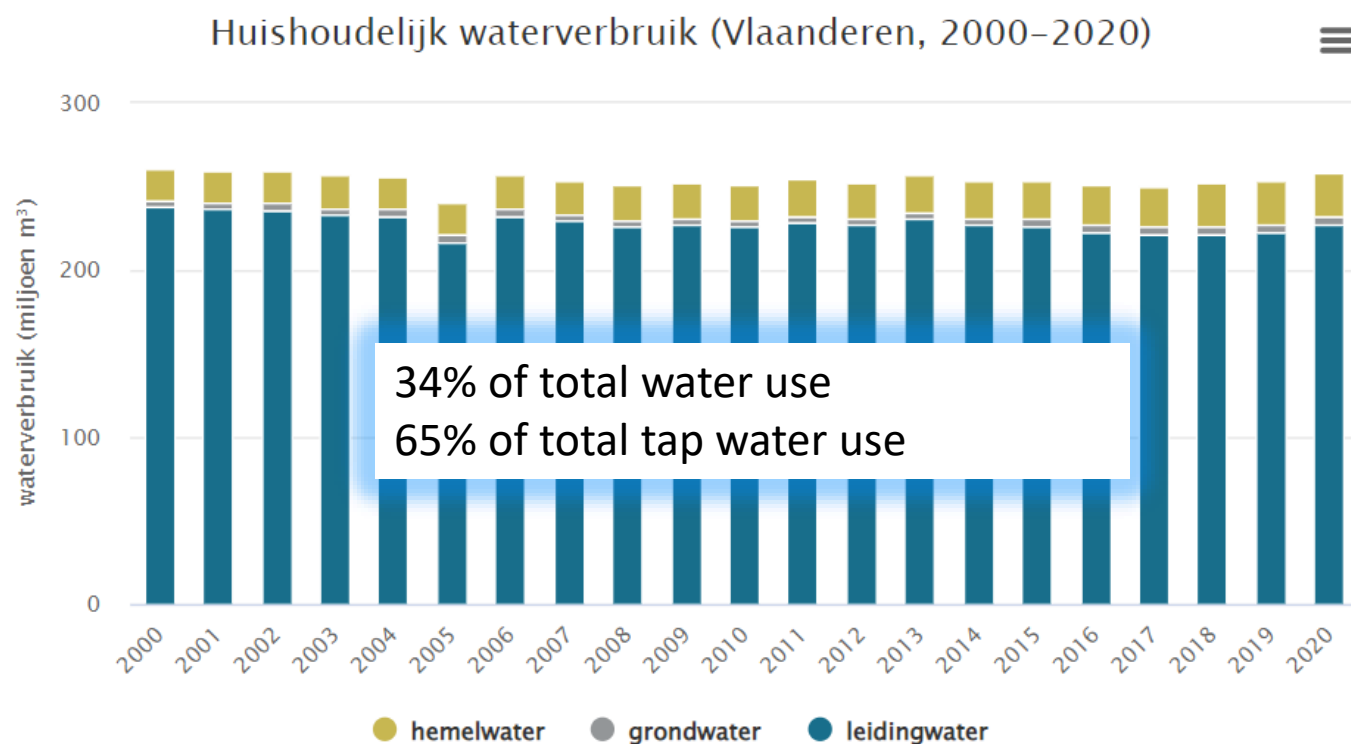
Urgency

Natural watersystems under pressure!

- Climate change
 - Long periods of droughts
 - Heat stress
 - Heavy rainfall
- Urbanisation - population growth

→ Using the right water source at the right time and place!

Situation – water use households



Bron: VMM



Tap water

88%



Rainwater

10%



Groundwater

2%

Water sources



Leidingwater

88%



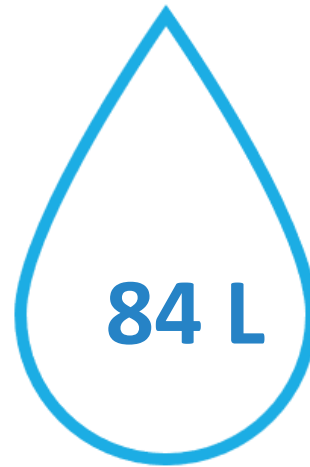
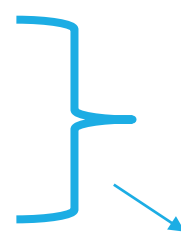
Hemelwater

10%



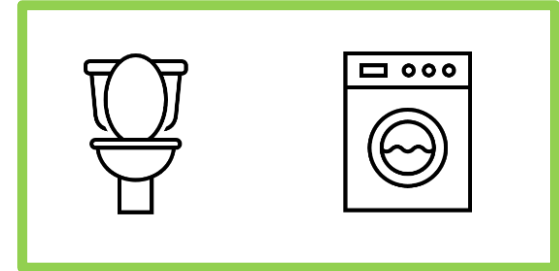
Grondwater

2%



Water use per person per day

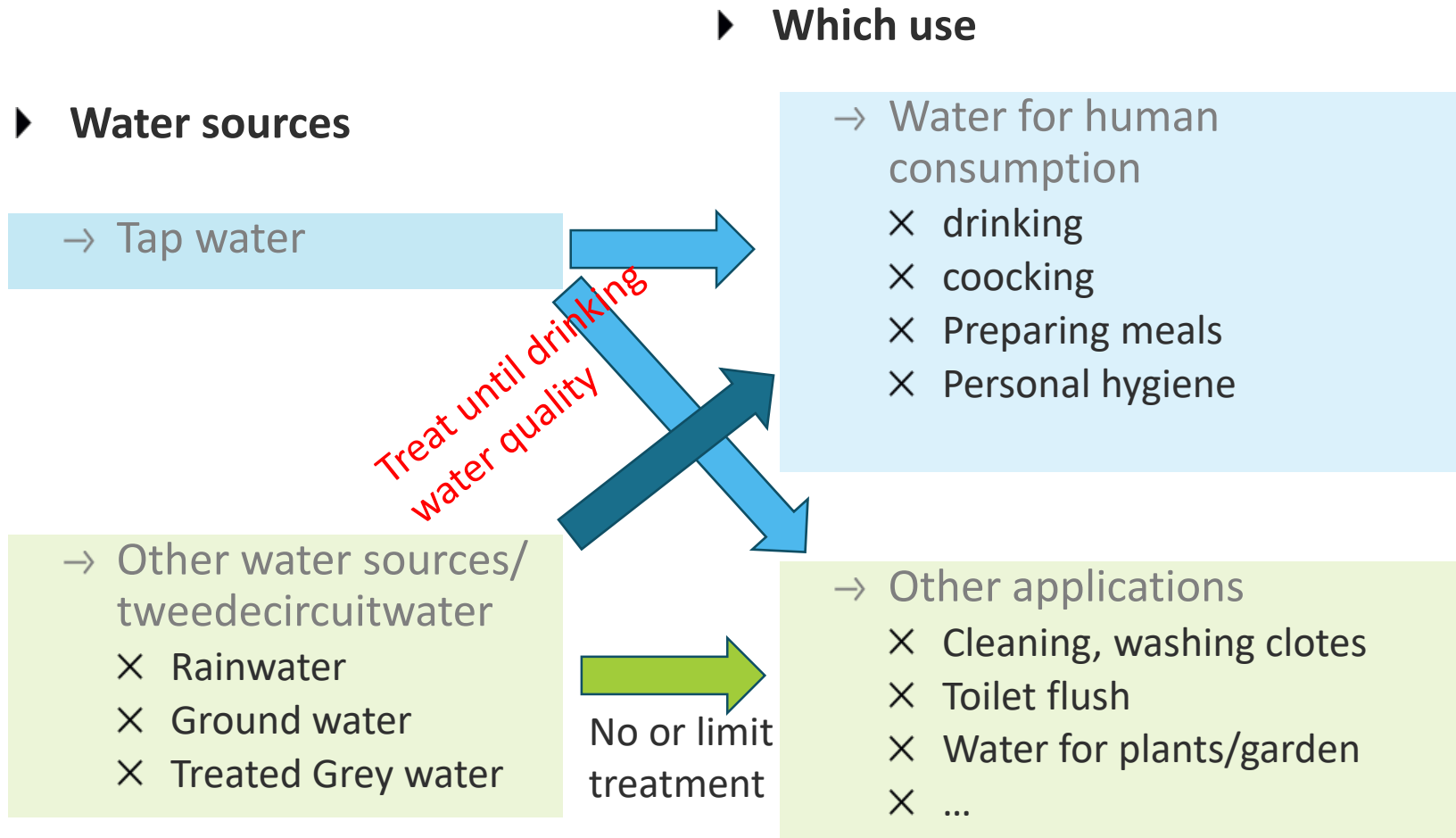
For an average household in Flanders (2,3 persons)



Other water (treated grey water, rainwater, ...)

Bron: Watergebruik huishoudens, VMM – 2000-2020

Water quality



Trend

- Link with energy transition and building renovation strategy
- Building permit – (new buildings and renovation)
 - Rainwater tanks -> storage + reuse!
 - house: min. 5.000 liter (<80 m²) - min 7.500 liter (80 – 120 m²) – min. 10.000 l (120 – 200 m²), >200 m², min 100 l/m²
 - Infiltration
- Collective approach (storage, treatment,)
- Circular water (grey and black water: treatment + reuse)