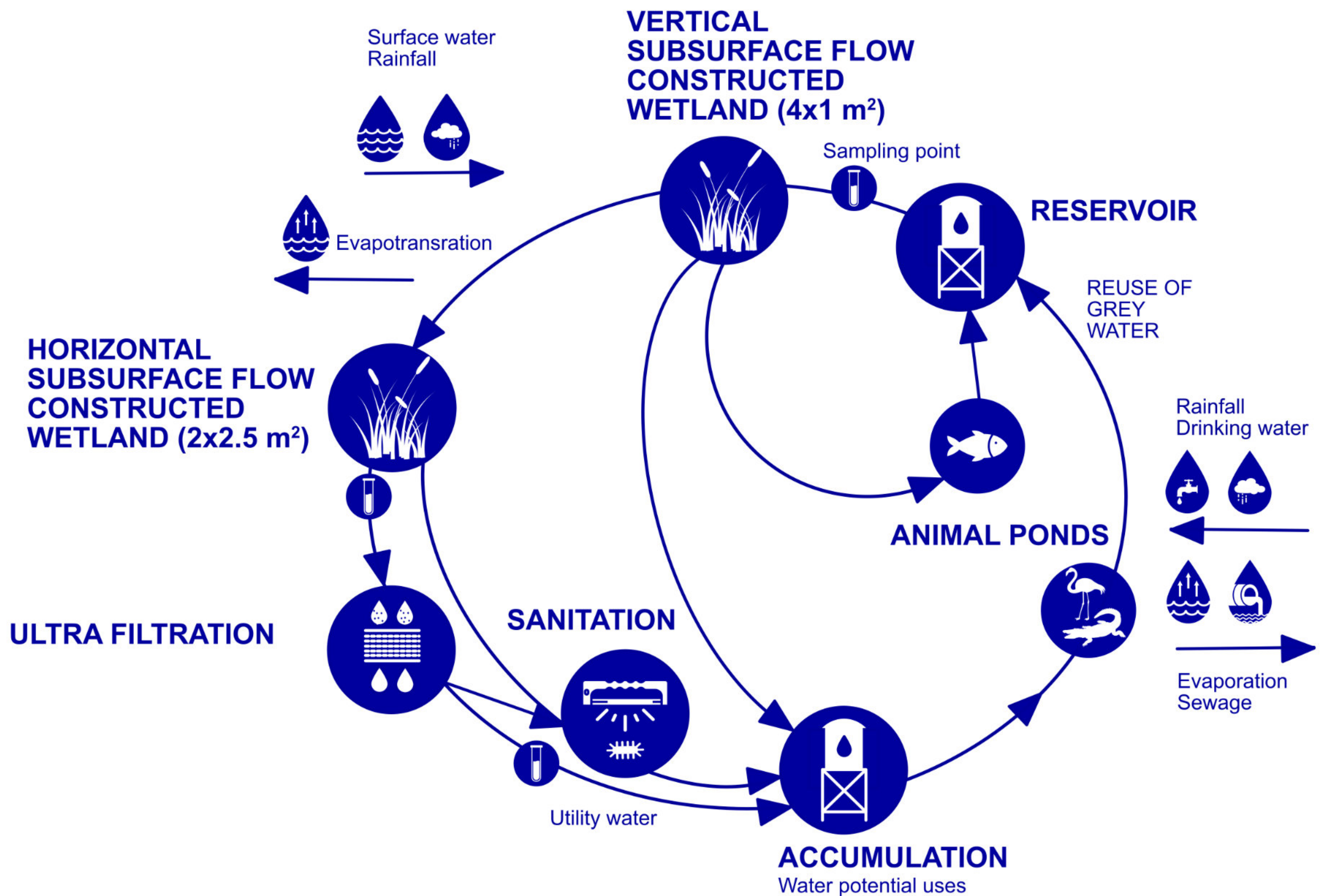
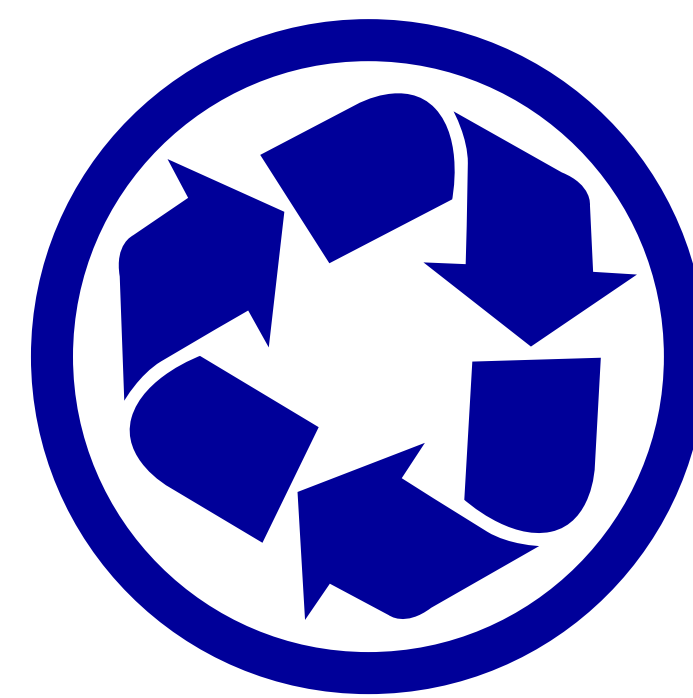


LIFE4ZOO

FIT4USE WATER RECIRCULATION TECHNOLOGY SCHEME IN ZOO BARCELONA



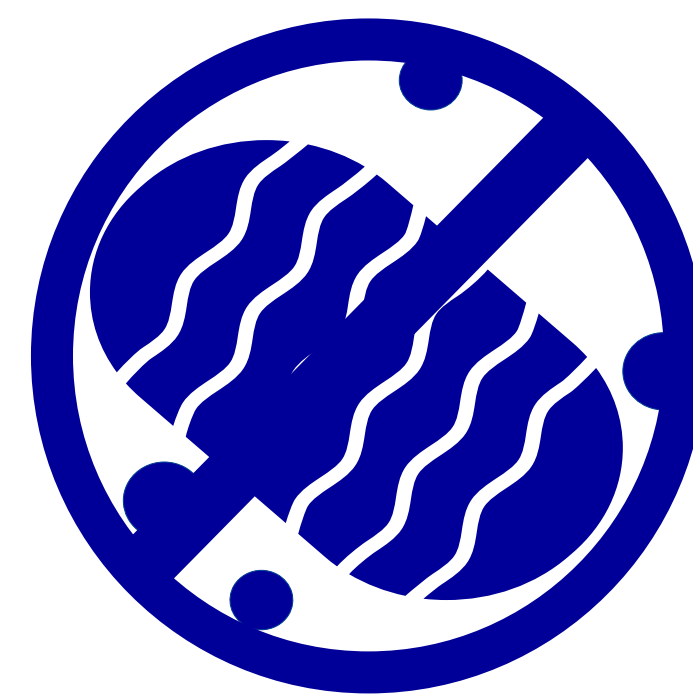
• **50% reduction** in the current potable water demand



• The water from the wetland is filtered by sand and ultra filtration followed by UV sanitation
 • **Purified water is reused** for cleaning enclosures, pools, or animal husbandry



• **Vertical flow constructed wetland** treats wastewater from animal husbandry
 • Filter provides nitrification, partial denitrification; uses gravity-fed periodic flooding



• Pond water treated by ultrasound and aeration to **suppress algae and cyanobacteria**

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FIT4USE WATER RECIRCULATION TECHNOLOGY IN ZOO BARCELONA



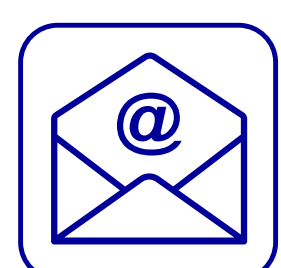
Develops and implements **circular economy in water sector** in visitor attractions like zoos

Consortium includes research institutions, businesses, and water-stressed zoos: **ZOO Liberec and ZOO Barcelona**

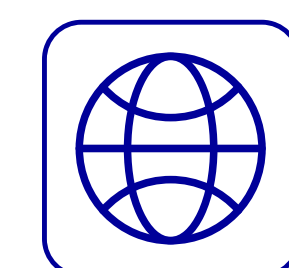
Demonstrates water reuse and integrated management to **reduce wasteful water use**

Enhances water efficiency and resilience in zoos, better coping with climate change impacts, fulfilling Revised Directive 91/271/EHS in order to **decrease the load of sewer system**

Demonstrates water reuse and integrated water management, promoting **public awareness on water sustainability** and conservation



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