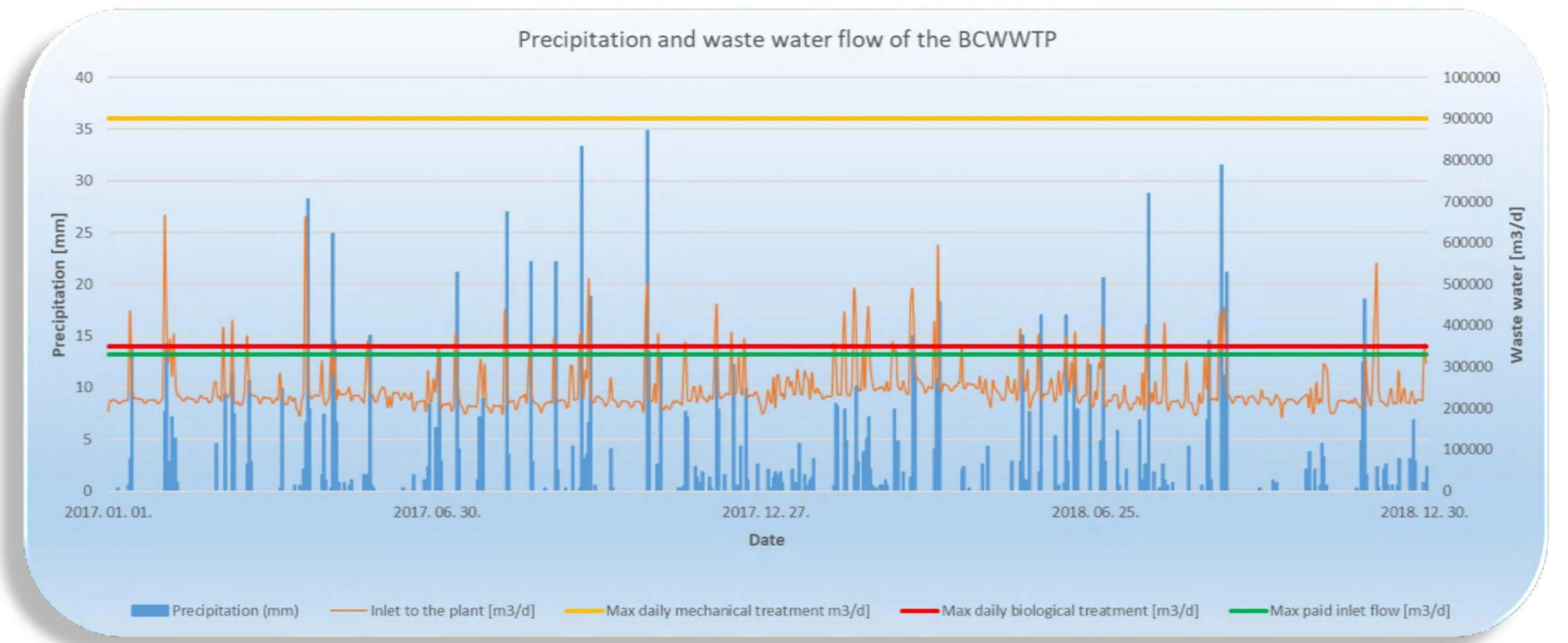




Balázs Szabolcsi, Boglárka O. Lakatos, Dao Bich Van, Niels Versluis



- Urban development
- Water scarcity (quality and quantity)
- Climate changes
- Diluted waste water
- Unified system
- Peak overflow and overload of WWTP
- Over design of WWTP

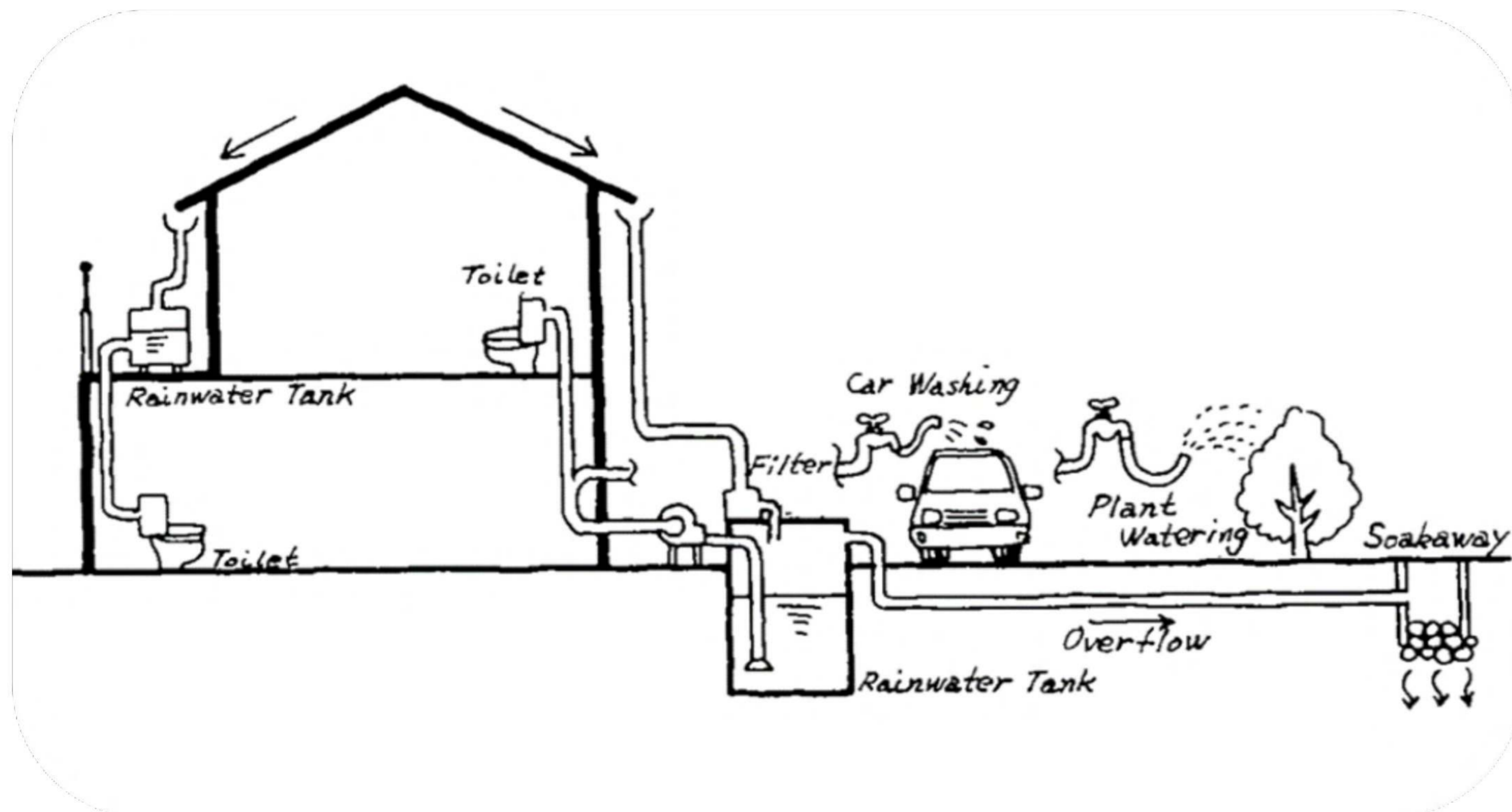


BCWWTP – Budapest Central Waste Water Treatment Plant

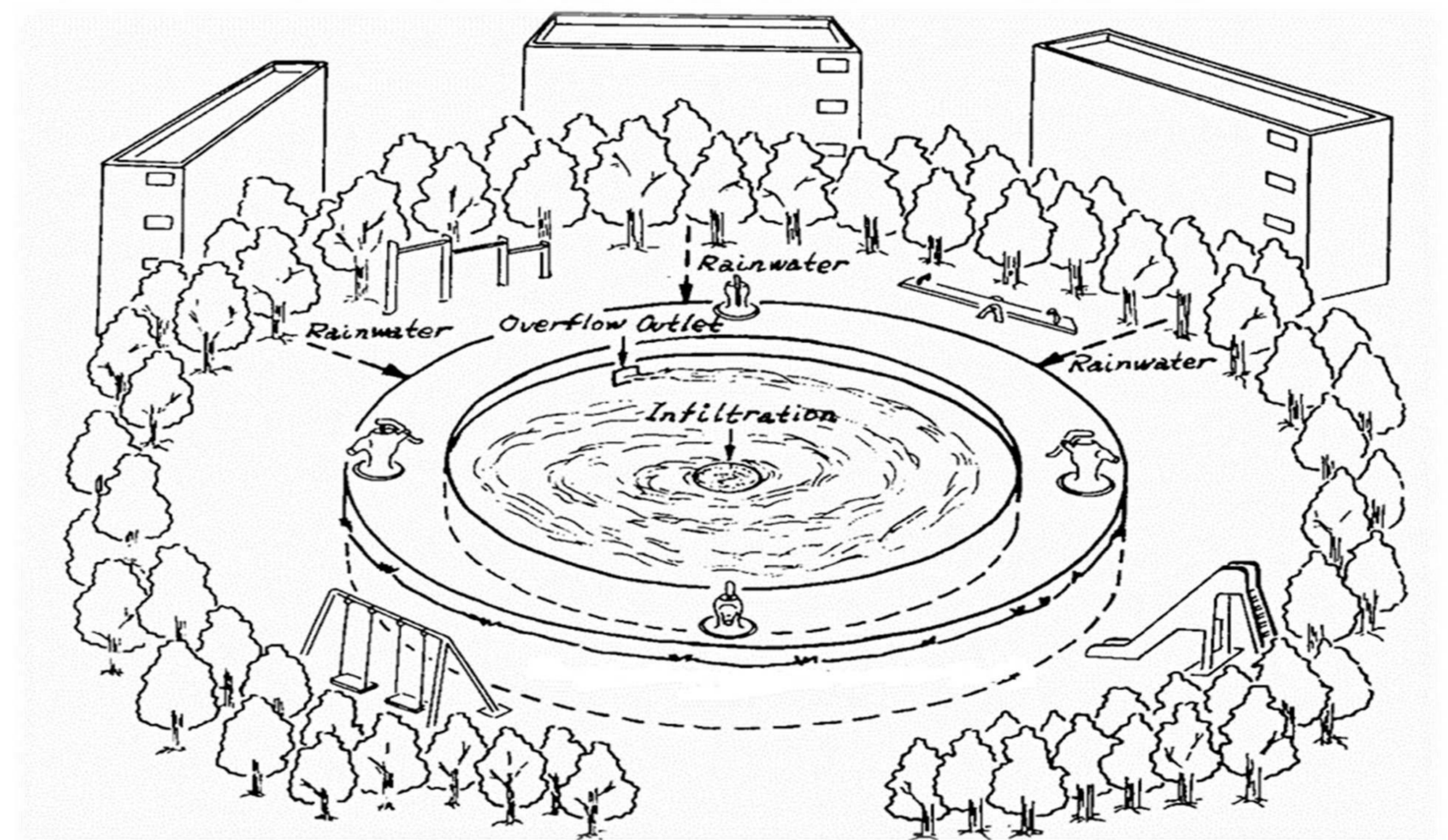


Decentralizing rainwater harvesting system to minimize the overflow of wastewater treatment plants in the high precipitation time.

Independent house rainwater use



Residential area rainwater use



- Low cost
- Local availability
- Community participation
- Partnership
- Companionship



Saving € 5.5 mil./year operation cost

Saving € 70 mil. construction cost

10 – 15 years payback period

Optimizing resource extracting technologies

Grey water system

Economic Benefits

- Optimize operational cost
- Efficient energy consumption
- Protect infrastructure
- Benefits - risks sharing

Environmental Benefits

- Control urban flooding
- Improve urban microclimate
- Minimize surface water pollution
- Groundwater recharge

Social Benefits

- Enhance community
- Improve livability
- Promote rainwater culture
- Nature friendly

“Tell me and I forget, teach me and I may remember, involve me and I learn.” - Benjamin Franklin

PAGAN TOURS