



UrbanStorm



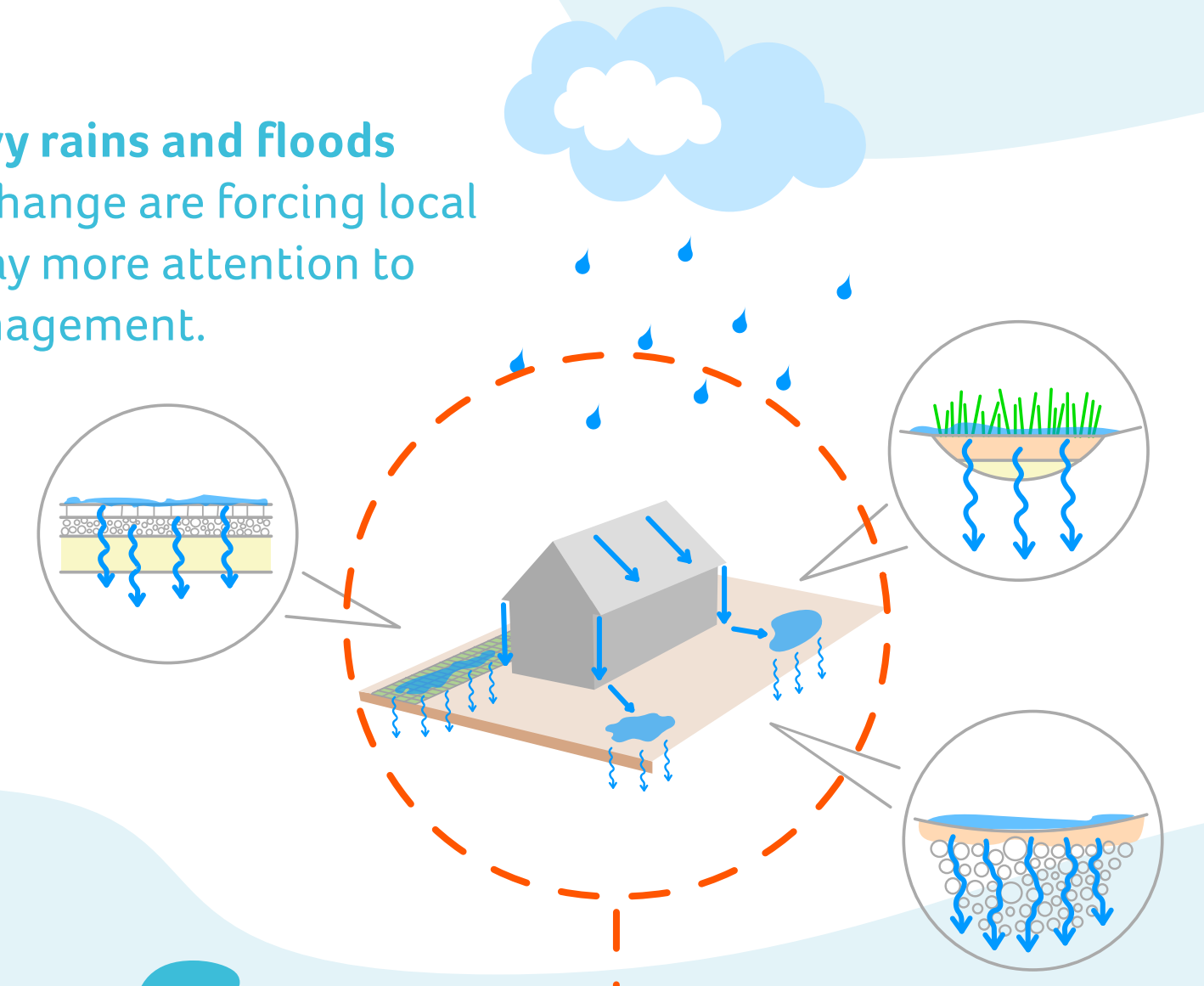
# LIFE UrbanStorm: Reducing the vulnerability of Estonian cities to the effects of climate change

The LIFE UrbanStorm project is **investigating nature based sustainable urban drainage systems (SUDS)** suitable for Estonian conditions and testing selected solutions in Viimsi Municipality. Project activities also include **development of a digital stormwater management system** in Viimsi as well as **various information and capacity building activities**.

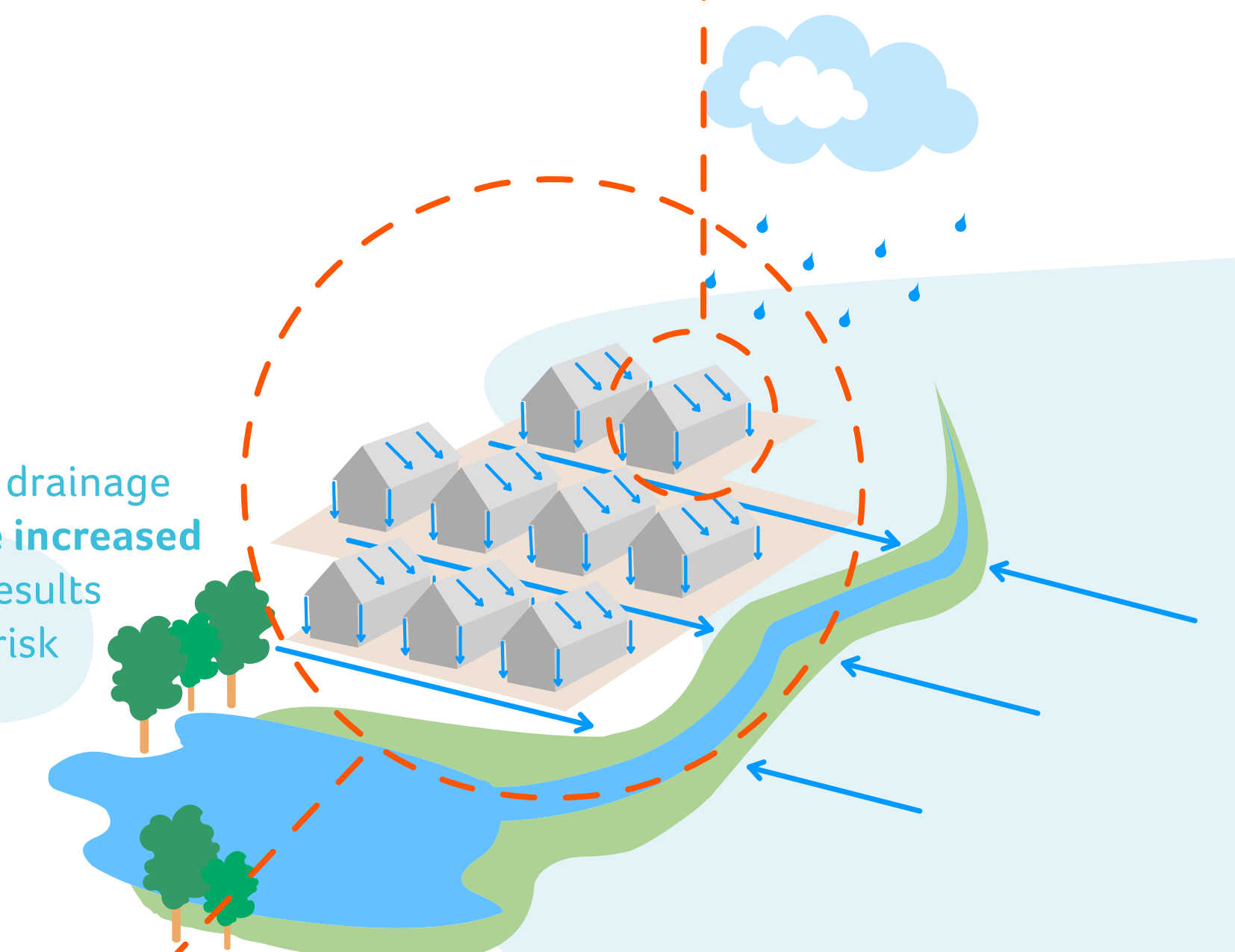
Visit our website:  
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Increasing heavy rains and floods due to climate change are forcing local authorities to pay more attention to stormwater management.



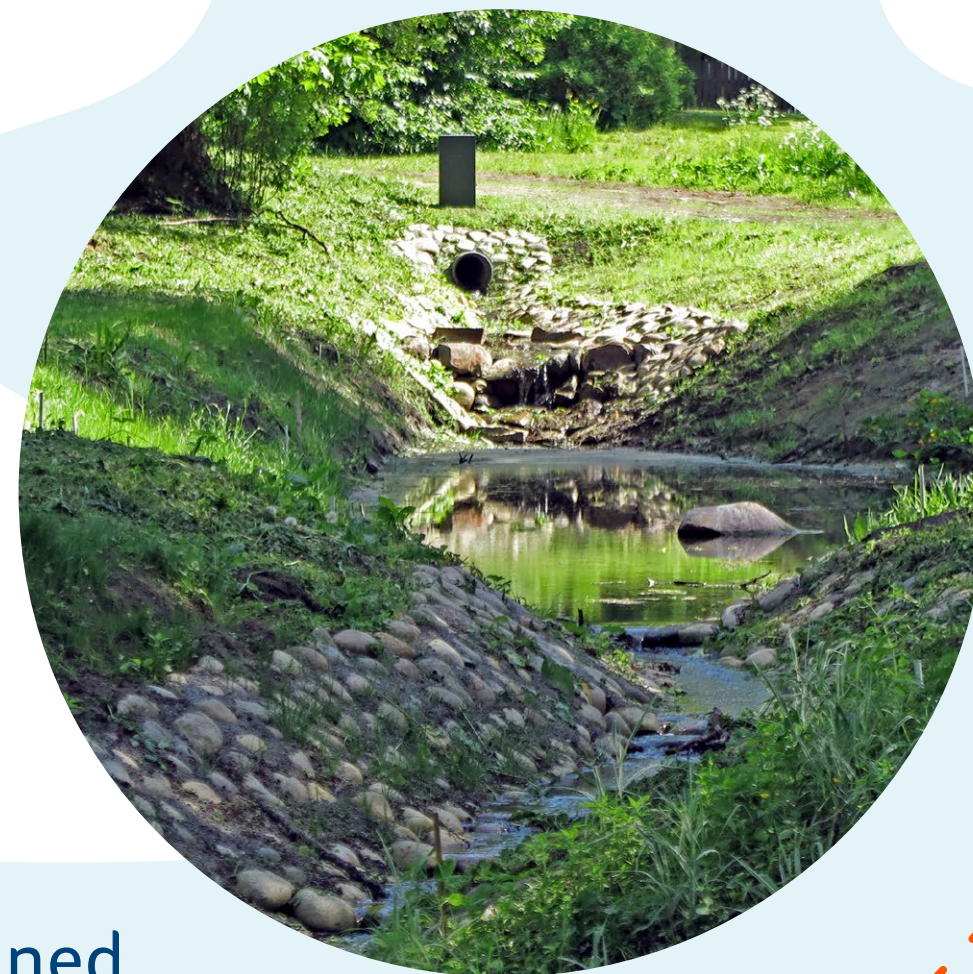
The traditional stormwater drainage can not accommodate the increased amounts of water, which results in floods and a concurrent risk of pollution.



## LIFE UrbanStorm pilot area: Viimsi manor park

The aim of the test area is to use sustainable urban drainage systems to drain the excessively moist soil, protect the banks of the ditch from erosion, and make the park more popular among local people.

The shores and the bed of the ditch were redesigned with wider sections, rapids, water barriers, a small waterfall, stepping stones, and a wooden platform.

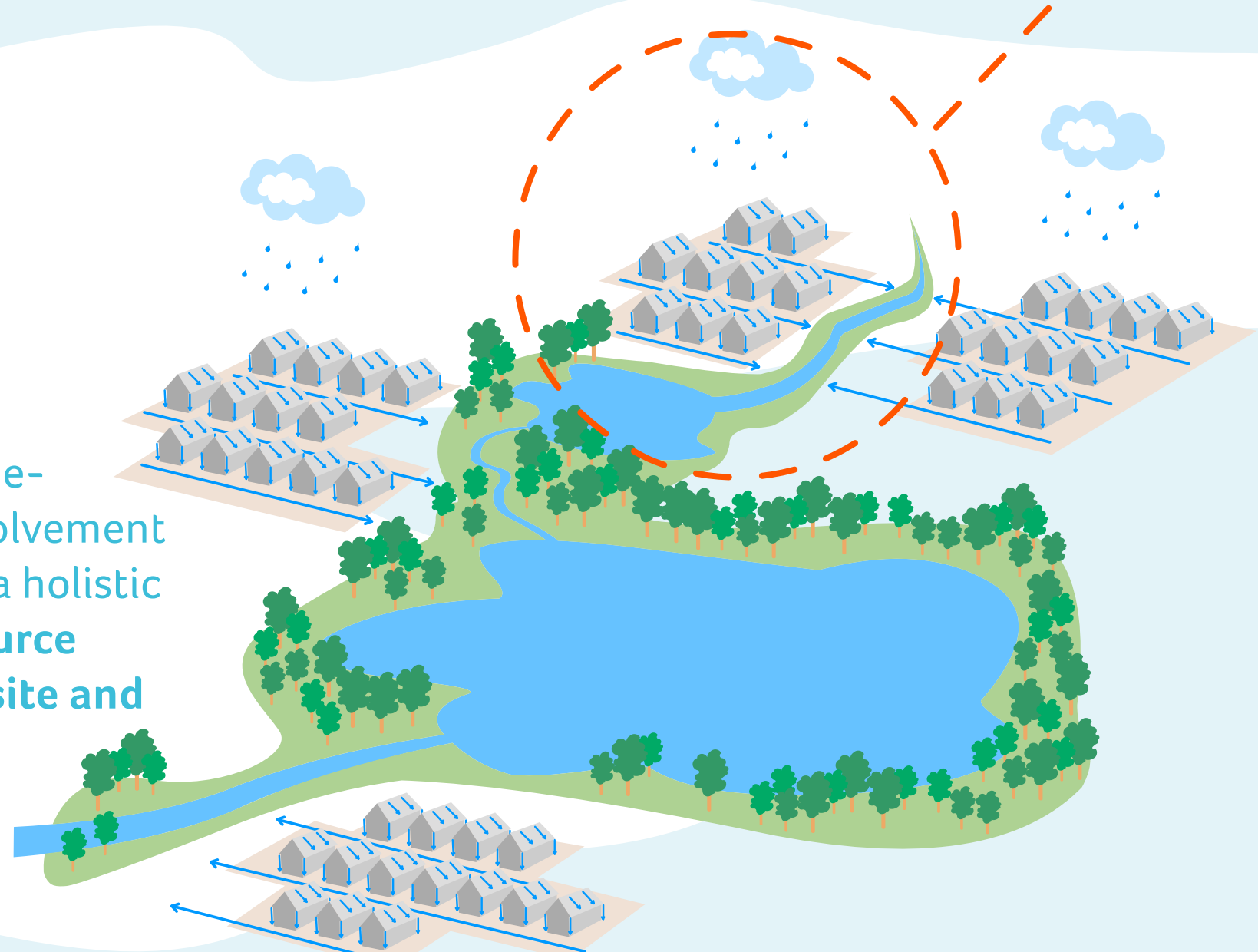


## LIFE UrbanStorm pilot area: Randvere tee parking lot

The aim of the area is to test different sustainable urban drainage systems techniques to be used at the parking lots to prevent rainwater from reaching the sewage system too fast and preventing floods. The tested techniques include different pervious pavements, filter strips and rain gardens. Different drainage systems direct the water to the ditch where the volume and quality of water is measured to conclude about efficiency of different techniques.



Planning of stormwater management in urban areas needs involvement of nature based solutions and a holistic approach starting from the source of stormwater runoff till the site and regional level.



Ditch and measuring wells

Porous asphalt

Filter strip

Rain garden

Asphalt with reused plastic

Modular permeable paving with grass or gravel



The LIFE UrbanStorm project implemented by Viimsi Municipality together with partners from the Estonian University of Life Sciences, Tallinn Urban Environment and Public Works Department and the NGO Baltic Environmental Forum is aiming at **increasing the capacity of Estonian municipalities to adapt to climate changes**, especially in managing the floods caused by torrential rains. See more at [urbanstorm.viimsivald.ee](http://urbanstorm.viimsivald.ee)

