RETAIN URBAN WATER

OBJECTIVE

Manage rainwater discharge.

DESCRIPTION

Modify elements of the urban water system to slow down rainwater (storm water) drainage, including storage/retention. The rainwater can be stored for a short period of time in water butts or larger storage tanks.

EXPECTED RESULTS

Buffered rainwater, reduced storm water flooding.

RESULT INDICATORS

Volume of drained rainwater [m^3]

INVOLVED ACTORS

Municipalities, water supply and sanitation services, urban technical planners.

EXPECTED TIMELINE FOR ACTION

- Short term (1-4 years)

BEST PRACTICES

- Ieper – Belgium; Nijmgeng – Netherland; Tiel – Netherland; Bottrop – Germany; Rouen – France; Hastings – UK;
- Veneto Region – Italy
- Friuli Venezia Giulia Autonomous Region – Italy

CRITICALITIES

Economic costs, acceptance for implementation on public or private grounds through public funding.

SCOPE OF THE ACTION

- Adaptation
- Mitigation

TYPE OF PROPOSED ACTIONS

- Grey
- Green

SECTOR OF ACTION

- Biodiversity / Conservation of ecosystems
- Public health
- Urban settlement
- Water resource management

CLIMATE IMPACTS

- Change or loss of biodiversity
- Drought
- Extreme precipitation
- Extreme temperatures

IMPLEMENTATION SCALE

- Municipality

SOURCE

http://www.future-cities.eu/fileadmin/user_upload/pdf/FC_AdaptationCompass_Supplement_web.pdf
https://core.ac.uk/download/pdf/285993381.pdf
https://www.venetoadapt.it/wp-content/uploads/2020/03/Del%20A2%20-%20VenetoADAPT%20Adaptation%20State%20of%20the%20art%20assessment.pdf