INFILTRATION OF RAINWATER

OBJECTIVE

Maximize run-off of rainwater.

DESCRIPTION

Restriction of pavements and building areas of individual building plots, use of specific pavement materials that are water permeable. The effectiveness of infiltration has to be specifically calculated for each project, depending on soil type, groundwater level, amount of paved areas.

EXPECTED RESULTS

Reduced risk of flood, reduced risk of running dry of the surface during drought periods.

RESULT INDICATORS

Area of water permeable pavements [m²]

INVOLVED ACTORS

Citizens, urban technicians, engineers, builders, specialists in natural resources.

EXPECTED TIMELINE FOR ACTION

- Short term (1-4 years)

BEST PRACTICES

- Ieper – Belgium
- Unione dei Comuni Medio Brenta – Veneto Region – Italy
- Veneto Region – Italy
- Veneto Region – Italy

CRITICALITIES

Lack of space.

SCOPE OF THE ACTION

- Adaptation

TYPE OF PROPOSED ACTIONS

- Grey

SECTOR OF ACTION

- Water resource management

CLIMATE IMPACTS

- Drought
- Extreme precipitation
- Extreme temperatures
- Floods

IMPLEMENTATION SCALE

- Municipality

SOURCE

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