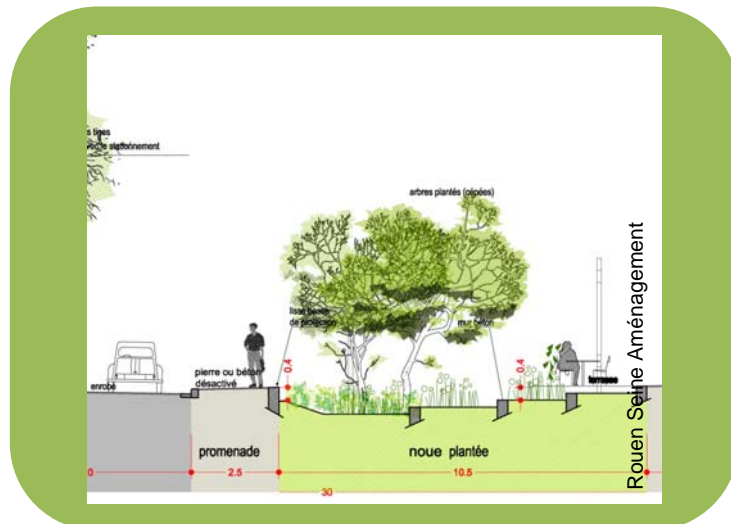




Adapted rain water infrastructure

Status	Implementation (2011-2013)
Location	France, Seine-Maritime, Haute-Normandie, City of Rouen, "Luciline"
Spatial info	Urban quarter/street; Business/industrial park, Residential area
Measure type(s)	Green open spaces; Water retention, water drainage; Urban texture
Contact	contact@rouen-seine.fr



Description and Aim

The system includes 2 meters large ditches following the pedestrian paths, collecting the rain water from the roofs of private buildings and the paths. These small ditches converge in a large main ditch, called "le mail" of more than 4 000 m² that collect also the rain water coming from the roads. "Le mail" has storage and regulation functions and is generously planted in order to create a green core for the new district and purify the waters before the release in the river Seine.

The aim is adapting the new district in order to reduce the stress on the existing rain water network and increase water permeable surfaces compared to traditional solution.

Adaptation to climate change

Reducing the temperature during the summer in this new district (direct impact). Possibility to increase the biodiversity thanks to the combination of vegetation (green structure- indirect impact) and water.

Problems addressed:

Heat wave, heavy precipitation / flooding

Receptor(s):

Population, infrastructure, built environment, economy (investors and property developers due an improved attractive area), natural resources

Experiences

Functionality:

Increase non-waterproof land in urbanized areas, increase vegetation and water presence in the city.

The implementation of the measure requires specific studies and the involvement of several stakeholders.

Further synergies/benefits:

The measure contributes to sustainability and life quality in the quarter, the water infrastructure consisting in new green areas.

Costs:

Infrastructure and vegetation costs.

Funding:

International and local. The studies are supported by ERDF fund with contribution of the city and Rouen Seine Aménagement, the land developer.

Stakeholder involvement:

Rouen seine Aménagement, the municipality of Rouen, the agglomeration government (CREA), state and local administrations.

Acceptance:

Information campaigns to public; regular working groups with local administrators, the department of the city and the CREA and politicians.

Obstacles/restrictions:

The ditches require maintenance that differs totally from the maintenance of a pipe. So probably the services in charge of the rain system management cannot maintain them and the green areas services will be in charge of it which is not the common way.