BUILD FLOATING OR ELEVATED ROADS

OBJECTIVE

Provide access in areas where water is regularly allowed to overflow as a control mechanism and be a permanent fixture in areas with weak ground.

DESCRIPTION

Floating roads are literally roads that float on the water. Ideally, they are flexible in both time and space. They do not only float but can also move to accommodate a changing water level. Instead of a fixed bridge it consists of a series of floating pontoons on which vehicles can drive. Elevated (or flood protected) roads are useful when a city is vulnerable for flooding. When regular roads are turned into rivers, the citizens can still evacuate using the elevated (or flood protected) roads.

EXPECTED RESULTS

Reduce the vulnerability and negative impacts of flooding on transport routes.

RESULT INDICATORS

Length of floating or elevated roads [km]

INVOLVED ACTORS

Local authorities and government.

EXPECTED TIMELINE FOR ACTION

- Short term (1-4 years)

BEST PRACTICES

- Netherlands

CRITICALITIES

Maintenance of infrastructure and use of appropriate design and materials.

SCOPE OF THE ACTION

- Adaptation

TYPE OF PROPOSED ACTIONS

- Grey

SECTOR OF ACTION

- Coastal management
- Transport and infrastructure

CLIMATE IMPACTS

- Extreme precipitation
- Floods

IMPLEMENTATION SCALE

- Association of municipalities
- Municipality

SOURCE

https://climate-adapt.eea.europa.eu/metadata/adaptation-options/floating-or-elevated-roads