

NATURAL SCREENS

OBJECTIVE

Integrate climate change into mitigation and/or adaptation strategies and programs (climate proofing).

DESCRIPTION

The action consists of use of natural screens near buildings and especially near south-facing walls and windows. A passive system example is the use of deciduous trees. Thanks to the foliage of the trees, these perform a solar control function in summer since it is possible to reduce the passage of sunlight; while, thanks to the lack of leaves during the winter season, the sun's rays can reach the walls and windows. With trees, a reduction of heat inside the building is thus obtained in the summer, without causing an increase in heating demand in winter.

EXPECTED RESULTS

Control of the indoor building's temperature.

RESULT INDICATORS

Number of trees planted.

INVOLVED ACTORS

Builder and buyer.

EXPECTED TIMELINE FOR ACTION

- Short term (1-4 years)

BEST PRACTICES

- Hamburg - Germany
- Stuttgart - Germany
- Milano - Italy

CRITICALITIES

Climate-proof buildings are more expensive and more difficult to implement and maintain than standard building practices.

SCOPE OF THE ACTION

- Adaptation
- Mitigation

TYPE OF PROPOSED ACTIONS

- Green

SECTOR OF ACTION

- Agriculture / Forests / Land use
- Urban settlement

CLIMATE IMPACTS

- Extreme temperatures

IMPLEMENTATION SCALE

- Municipality

SOURCE

<http://www.iuav.it/SISTEMA-DE/Archivio-d/approfondi/progettare/06-scheda-Papadakis-Tsamis.pdf>