

**drainage**



**BIOSWALES**

A bioswale is a long, channeled depression or trench that receives rainwater runoff and has vegetation and organic matter to slow water infiltration and filter out pollutants.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

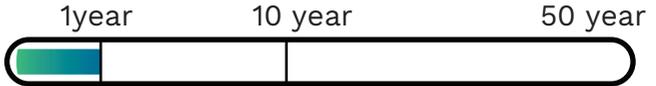
WATER MANAGEMENT

MICROCLIMATE IMPROVEMENT

HEALTH AND WELLBEING

CO2 REDUCTION

Process of impact measure



Lifespan of the solution



Construction cost

\$\$

Maintenance cost

\$

Adressed themes

environment

Best practice example

Street Edge Alternatives (SEA Streets) project  
Seattle Public Utilities constructed a drainage project at 2nd Avenue NW



green infrastructure



Tree-lined Streets

A tree-lined road or street is the street that has trees on either side.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

WATER MANAGEMENT

MICROCLIMATE IMPROVEMENT

HEALTH AND WELLBEING

CO2 REDUCTION

AIR QUALITY

Process of impact measure



Lifespan of the solution



Construction cost

\$\$\$

Maintenance cost

\$

Adressed themes

environment  
energy

Best practice example

American Association of State Highway and Transportation Officials and reiterated in municipal manuals and standards in the USA.

PUS02



temperature control



Car Parks with Green Area

An environmentally friendly car parking, where the greenery is integrated into the design and taking a big part of the parking lots.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

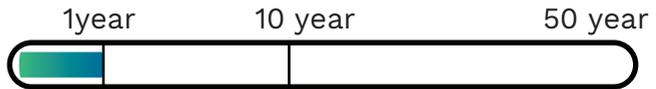
MICROCLIMATE IMPROVEMENT

CO2 REDUCTION

HEALTH AND WELLBEING

AIR QUALITY

Process of impact measure



Lifespan of the solution



Construction cost

\$\$

Maintenance cost

\$

Adressed themes

environment  
acesibility

Best practice example

Cricket club parking with area 1820 sq. .  
Derbyshire County - UK

PUS03



green infrastructure  
cooling effect

Shade Provided by Vegetation



Planting vegetation on streets, squares, parks creates shade and evapotranspiration and therefore has a cooling effect.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

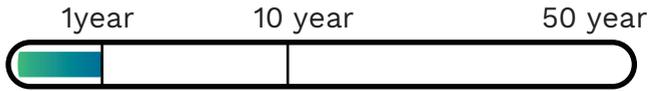
CO2 REDUCTION

MICROCLIMATE IMPROVEMENT

HEALTH AND WELLBEING

AIR QUALITY

Process of impact measure



Lifespan of the solution



Construction cost

\$\$\$

Maintenance cost

\$

Adressed themes

environment

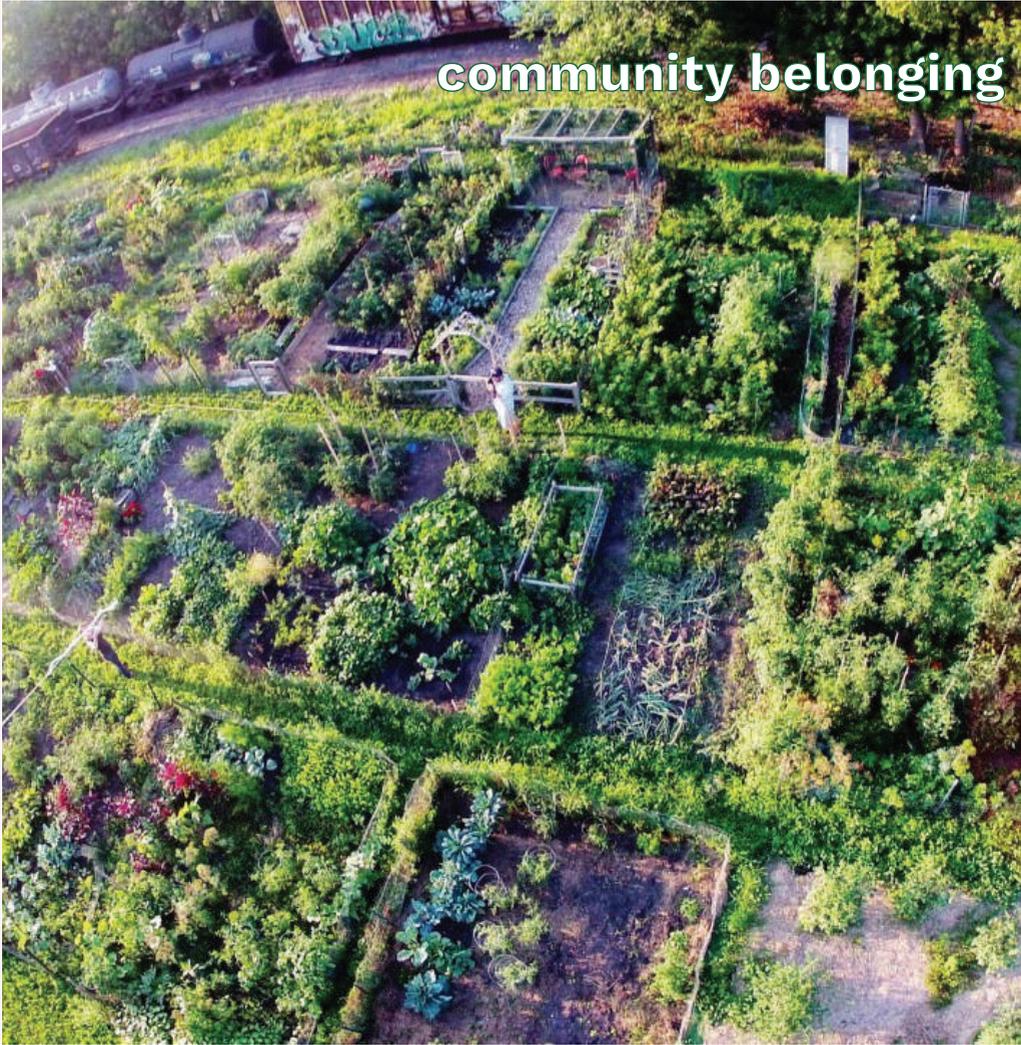
Best practice example

Lulu Island in Abu Dhabi:



PUS04

community belonging



A Community Garden is an urban, suburban or rural piece of land in which it can grow flowers, vegetables or a community. It can be one community plot or many individual plots which are located at different scales such as school, hospital, or in a neighbourhood.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

MICROCLIMATE IMPROVEMENT

CO2 REDUCTION

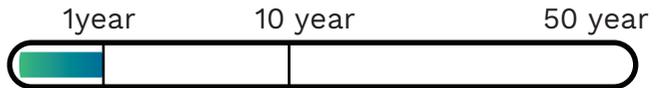
HEALTH AND WELLBEING

AIR QUALITY

COMMUNITY BELONGING

LAND PRODUCTIVITY

Process of impact measure



Lifespan of the solution



Construction cost

\$\$

Maintenance cost

\$

Adressed themes

environment  
people

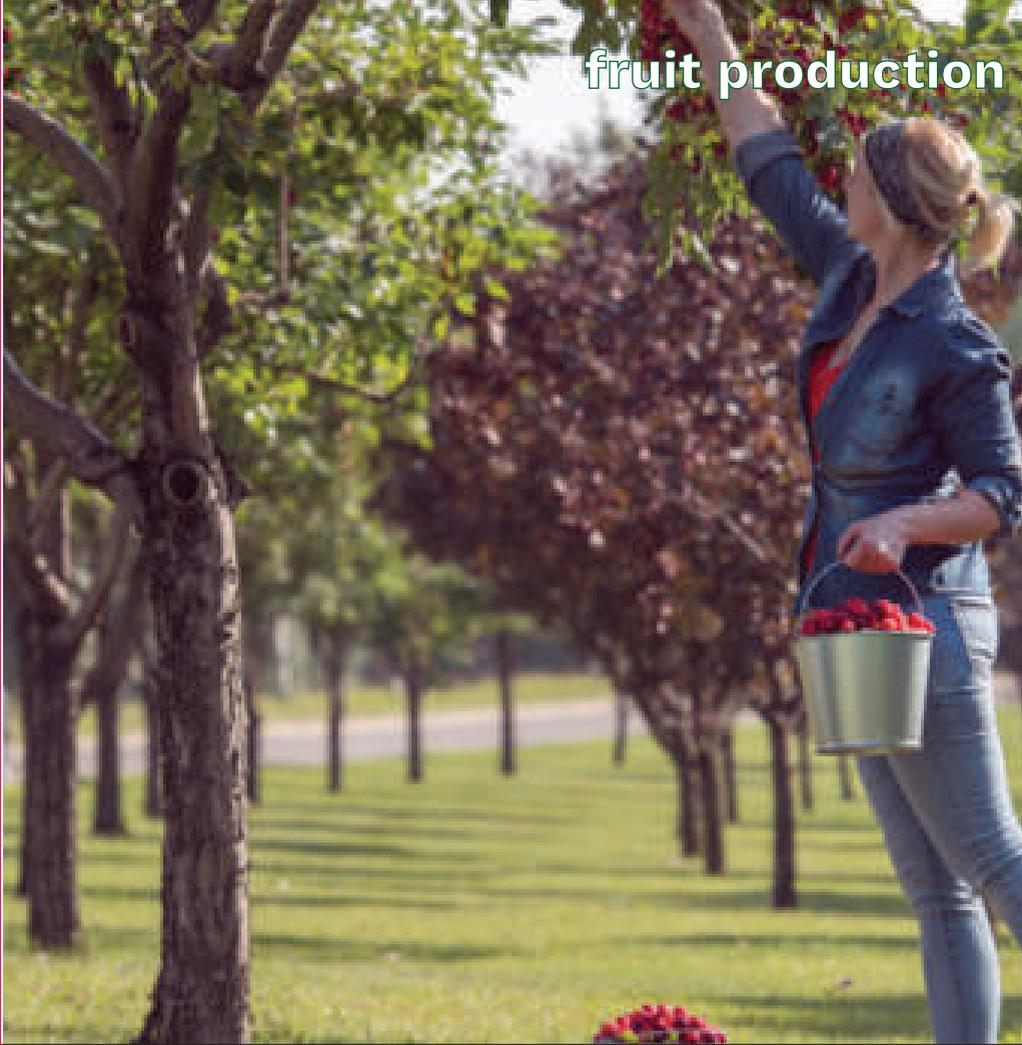
Best practice example

Alemany Farm, San Francisco

PUS05



fruit production



## Urban Fruit Trees

A fruit tree is a tree which bears fruit that is consumed or used by humans and some animals.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

CO2 REDUCTION

MICROCLIMATE IMPROVEMENT

HEALTH AND WELLBEING

LAND PRODUCTIVITY

AIR QUALITY

Process of impact measure



Lifespan of the solution



Construction cost

\$\$

Maintenance cost

\$

Adressed themes

environment

Best practice example

[Calgary Community Orchards RP](#)

PUS06



green infrastructure



Green Bus Shelters

Bus shelter provided with a green roof for water retention and cooling and with all the smart facilities that make waiting times more comfortable.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

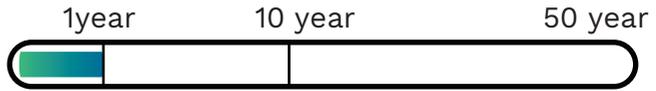
MICROCLIMATE IMPROVEMENT

CO2 REDUCTION

HEALTH AND WELLBEING

AIR QUALITY

Process of impact measure



Lifespan of the solution



Construction cost

\$\$

Maintenance cost

\$

Adressed themes

environment  
people  
energy

Best practice example

JCDecaux's sustainable bus shelters in Paris



water management  
heat island effect



Urban furniture, modular, mountable and dismountable in 24 hours. They work automatically, as soon as the ambient temperature exceeds 28°C they provide a feeling of freshness through a radiation effect

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

CO2 REDUCTION

MICROCLIMATE IMPROVEMENT

HEALTH AND WELLBEING

WATER MANAGEMENT

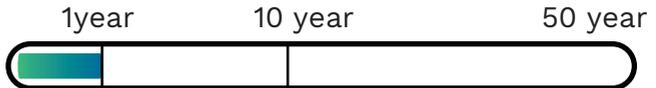
AIR QUALITY

LAND VALUE

Process of impact measure



Lifespan of the solution



Construction cost

\$\$\$

Maintenance cost

\$\$

Adressed themes

environment  
people

Best practice example

Three islands of freshness, Paris



PUS08

sustainable materials



Eco Urban Furniture is designed as a reminder about the important role of recycled materials and introduce new alternative use of trees embracing urban furniture to enhance CO2 absorption.

# Public and Urban Spaces Interventions



## Related Main Indicators

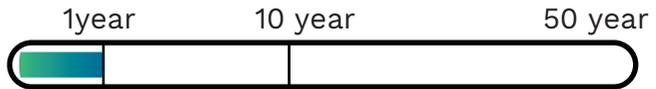


## Expected Co-Benefits

MICROCLIMATE IMPROVEMENT

HEALTH AND WELLBEING

Process of impact measure



Lifespan of the solution



Construction cost

\$\$

Maintenance cost

\$

Adressed themes

environment  
people

Best practice example

Brothers in Benches





urban air quality

Green Ventilation Grids

A grid of parks and small areas of vegetation that are connected which offer the possibility of having a favourable impact on the urban climate: in the summer they hold less heat and so offer cooler areas.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

CO2 REDUCTION

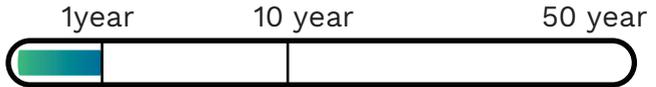
MICROCLIMATE IMPROVEMENT

HEALTH AND WELLBEING

LAND VALUE

AIR QUALITY

Process of impact measure



Lifespan of the solution



Construction cost

\$\$

Maintenance cost

\$\$

Adressed themes

environment  
people

Best practice example

Place de la République, Paris



## sustainable urbanisation

### The Living Garden Concept



Concept developed by the Dutch Garden and Landscape Contractors Association in which green and sustainable gardens for private or public spaces are proposed, in which water, energy, soil, and edible greenery are concentrated. To achieve water retention, heat stress prevention, biodiversity stimulation and the positive effect that greenery has on people's health.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

MICROCLIMATE IMPROVEMENT

AIR QUALITY

HEALTH AND WELLBEING ,

ECOSYSTEM RESTORATION

LOCAL DEVELOPMENT

Process of impact measure



Lifespan of the solution



Construction cost

\$\$

Maintenance cost

\$

Adressed themes

environment  
people  
energy

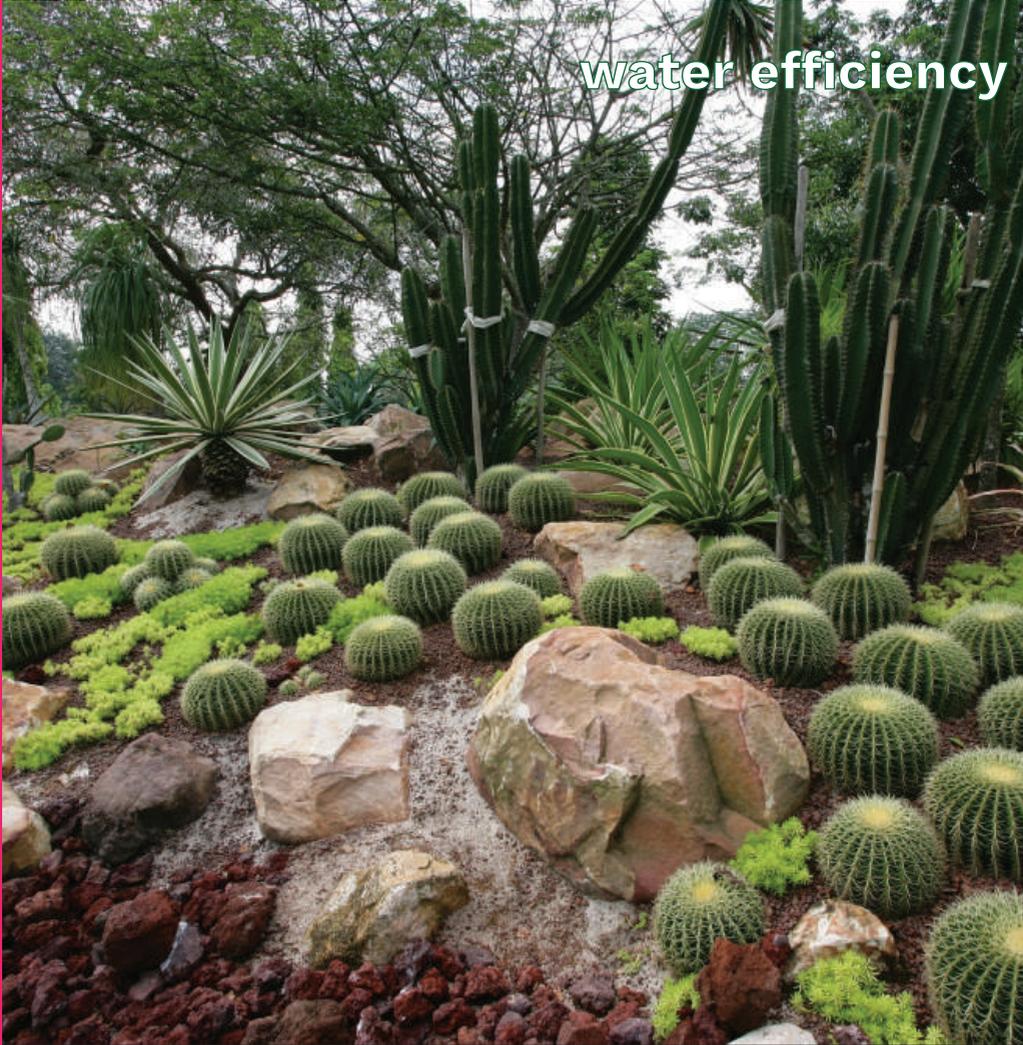
Best practice example

“Home of the future”, Project developed by MAD Architects in partnership with Hanergy for the 2018 China House Vision Exhibition.

PUS11



water efficiency



Arid gardens are the gardens that planted and designed for harsh and normal weather conditions. Plantation made accordingly considering less water and maintenance needing options.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

CO2 REDUCTION

MICROCLIMATE IMPROVEMENT

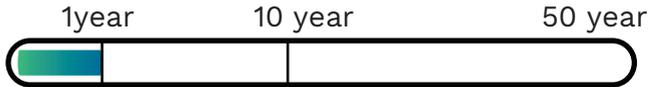
HEALTH AND WELLBEING

ECOSYSTEM RESTORATION

AIR QUALITY

CLIMATE CHANGE ADAPTATION

Process of impact measure



Lifespan of the solution



Construction cost

\$

Maintenance cost

\$

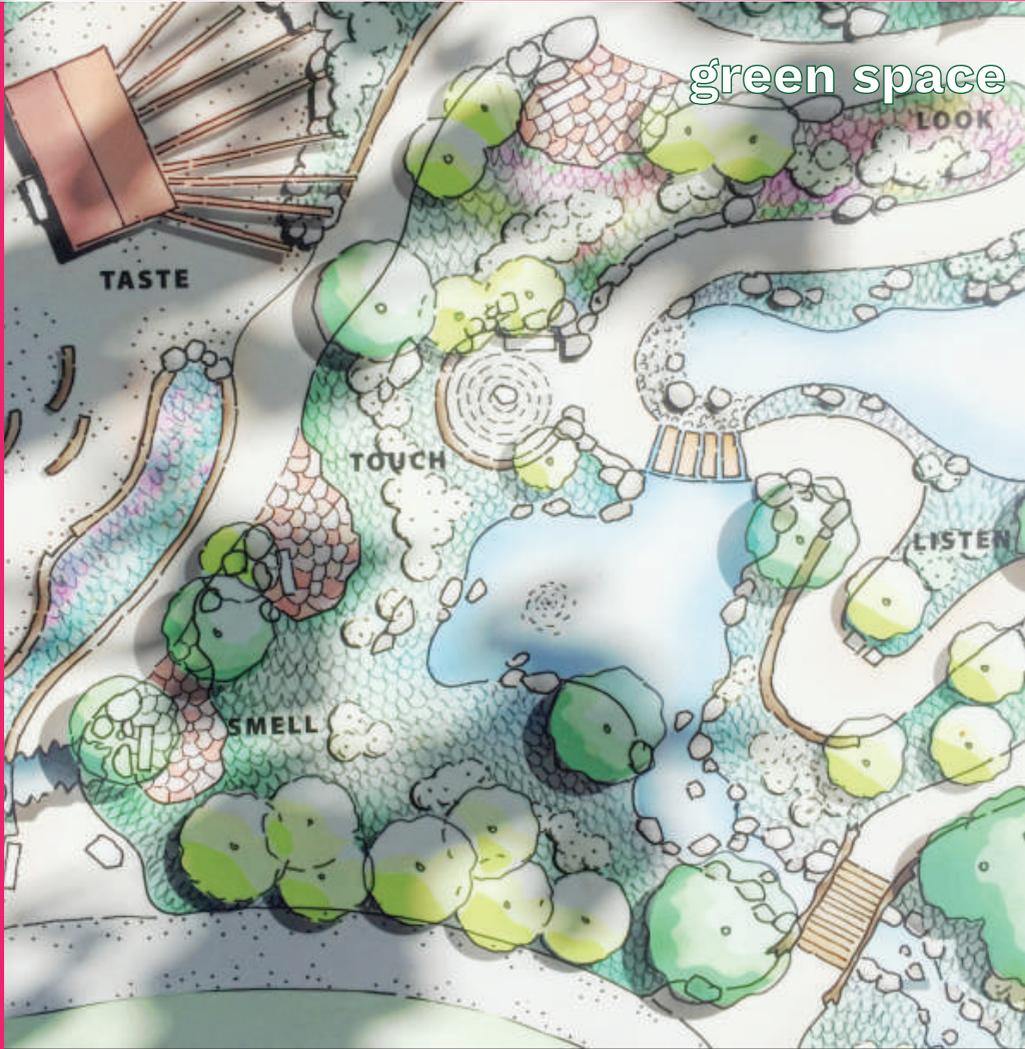
Adressed themes

environment  
people

Best practice example

[AridSmart Courtyard Garden](#)





A garden to attract and interact with people and their five senses to be highlighted by using natural elements, plantation and creating a habitat for birds, insects, and butterflies.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

MICROCLIMATE IMPROVEMENT

AIR QUALITY

HEALTH AND WELLBEING ,

ECOSYSTEM RESTORATION

LOCAL DEVELOPMENT

Process of impact measure



Lifespan of the solution



Construction cost

\$\$

Maintenance cost

\$ \$

Adressed themes

environment  
people

Best practice example

Sensational Park by Nabito, Frosinone - Italy



**sustainable production  
and consumption**

## **Raised Bed Vegetable Garden**



Raised bed vegetable gardens, also known as garden boxes, are great for growing small plots of vegetables and flowers. They keep weeds from the soil, prevent soil compaction, provide efficient drainage and serve as a barrier to pests.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

ECONOMIC GROWTH

MICROCLIMATE IMPROVEMENT

HEALTH AND WELLBEING

ECOSYSTEM RESTORATION

AIR QUALITY

CLIMATE CHANGE ADAPTATION

Process of impact measure



Lifespan of the solution



Construction cost

\$

Maintenance cost

\$

Adressed themes

environment  
people

Best practice example

[Gili Lankanfushi hotel vegetable beds, Lankanfushi Island – Maldives](#)



## biodiversity in urban



### Urban Flower Fields

Planting seasonal flowers to urban settings and creating attraction areas to pollinators to increase their number and improve the aesthetic values of urban settings.

# Public and Urban Spaces Interventions



## Related Main Indicators



## Expected Co-Benefits

MICROCLIMATE IMPROVEMENT

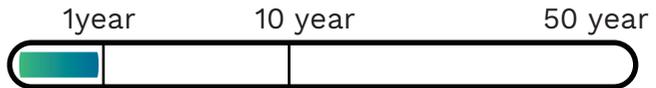
AIR QUALITY

HEALTH AND WELLBEING ,

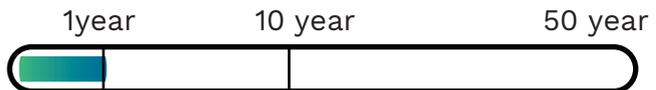
ECOSYSTEM RESTORATION

LOCAL DEVELOPMENT

Process of impact measure



Lifespan of the solution



Construction cost



Maintenance cost



Adressed themes

environment  
people

Best practice example

Urban Flower Field and mural in Pedro Park, Minnesota - USA

PUS15

