

NBS 2 New generated soil for urban forestry and urban farming



Living Lab Turin, Italy



NBS 2 description

Creation of an area of „urban forest“ along the banks of the Sangone river through the use of regenerated soil (New Soil), based on excavated material with the addition of compost, zeolites and innovative bio-stimulants. Plants of different species were planted in the New Soil area and in the adjacent area as a control field. Growth analysis to monitor the effect of new soil on vegetation has been performed during the implementation phase.

Aims & goals

The NBS New soil supports:

- increased sustainability of the urban system
- urban regeneration through improvement of climate change risk management and resilience.
- supports viable business models with employment opportunities for local population.
- Significant technical, social and economic impacts are achievable to support sustainable innovation.
- the conversion of organic fraction of municipal solid waste in certified compost to be applied as fertilizer in the new soil application contributes to reducing GHG emissions.
- the nutrient content of the compost is significant as 1 ton of compost can substitute 37 kg of Urea.
- GHG emissions reduction potential, composting results in 87% of emissions saving with respect to traditional waste disposal.

Target groups and beneficiaries

- Green department technicians of the City of Turin
- Citizens
- Quarry managers
- Compost producers
- Legislators

Contact

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Area of implementation

2.000 m² in Sangone Park

GPS coordinates: 45.009040, 7.641200

Main responsible partner

Environment Park (private sector)

Other proGireg partners involved

Dual Srl
UNITO
City of Turin

Other stakeholders involved

- ACEA (TLP of Envipark)
- CCS (subcontracting of Envipark)
- Arpa Piemonte (TLP of City of Turin)
- Città Metropolitana di Torino (TLP of City of Turin)
- Private gardeners of adjacent municipal gardens
- Representatives of groups of citizens

Implementation budget

Total implementation budget: 278.000 €

proGireg funding: 278.000 €

Timeframe

Start
December 2019



Completion
February 2020