



### Living Lab Turin, Italy

#### NBS description

Implementation of low-cost, but stable and easy to operate aquaponics systems. Aquaponics is the combination of raising fish (aquaculture) in tanks together with soilless cultivation of plants (hydroponics) in a symbiotic environment, whereby the fish waste water provides the nutrients needed to feed the plants. Aquaponics is ideal for promoting local food production in areas with contaminated or poor-quality soil. Locally produced food by locals can lead to healthier diets and contribute to community-building.

#### Aim & goals

- Testing tests aquaponics horticultural cultivation in urban field conditions through planning, building and management of three demonstration plants of different scales: micro, mini and semi-commercial / educational
- Rehabilitating the site of the facility and involving citizens, schools and local communities. Hence, creating a plant with high impact on the area that evokes the curiosity of visitors and participants
- Creating green job opportunities

#### Target groups (beneficiaries)

- citizens directly involved in activities of education and participated in the planning and management
- agricultural operators,
- school professionals and students (both Italian and foreign),
- people with disabilities and rehab patients
- adults in care of local residential communities,
- possible investors.

#### Main responsible partner

- Grow Up, an innovative startup with a social vocation and agricultural company
- Mitte Garten, an innovative agricultural startup, established in 2021, cultivates vegetables using the aquaponics method.

#### Contact

Grow Up

✉ info@grow-up.farm

🌐 www.grow-up.farm

Mitte Garten

✉ info@mittegarten.org

🌐 www.mittegarten.org



#### Area of implementation

Grow Up installed two plants in Mirafiori Sud district: micro and semi-commercial plant.

GPS coordinates: 45.01263, 7.62642.

A mini plant at Comunità Giulia, a local residential community hosting temporarily youngsters aged 11-17 with psych-social issues.

GPS coordinates: 45.08133, 7.67891.

Mitte Garten's greenhouse was built in Strada Castello di Mirafiori

GPS coordinates: 45.01221, 7.62871

#### ProGlgreg partners involved

- City of Turin
- NGO Fondazione della Comunità di Mirafiori
- University of Turin, Department of Agricultural, Forest and Food Sciences

#### Other stakeholders involved

NGOs located in Turin:

- Soluzioni Artistiche APS,
- Al Laboratorio CTM,
- Aquaonic Design APS
- ASC Arci Servizio Civile Piemonte

Residential local communities for adults with disabilities;

Confagricoltura Torino: Agriculture trade union

TEORES! Group: local company expert in research and technological innovation.

#### Implementation budget

Total implementation budget: ca 25.000 €

proGlgreg funding: 20.000 €

private sector co-funding: 5.000 €

#### Timeframe

Start

May 2022



Completion

December 2022