



**WELCOME
TO**

**CITY
LAB**



An "open laboratory"

Since 2018 Torino offers itself and its assets to test breakthrough solutions in any domain of public interest to shape the City of the future. Frontier technologies at the service of quality of life and environmental and social sustainability on the city scale.



COOPERATIVE,
CONNECTED &
AUTONOMOUS
VEHICLES



DRONE BASED
INNOVATIVE
SERVICES



5G ENABLED
TECHNOLOGIES:
IOT, AI, ROBOTICS,
BLOCKCHAIN



CLEAN TECH &
SMART LIFE
SOLUTIONS

What TCL offers

The City



1

The whole city area and its assets for testing

2

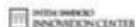
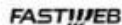
Municipal intangibles (people, processes, services and data).

3

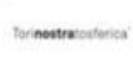
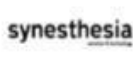
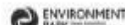
A single internal contact point

4

Facilitated relationships within the +90 partners



— MEDIA & INNOVATION



— STARTUPS



— INTERNATIONAL VENTURES



— ACCREDITED VENTURE CAPITAL



— MEDIA



Thanks TO

Torino City Lab is supported by a vast partnership on several levels



TCL KEY FACTS

**since 2018*

+100 companies
+90 partners

+60 trial contracts, +35 ongoing projects smart mobility, environment, smart living

3 SECTORAL LABS

- **IOT for URBAN QUALITY**
- **SHARING & CIRCULAR ECONOMY**
- **EDULAB**

1 SPECIAL INITIATIVE

TORINO CITY LOVE CAMPAIGN (2020)

STRATEGIC PARTNERSHIPS

ESA, ASI, ENAC

SUPPORT TO ACCELERATORS

Techstars, Impact Deal, XEDU, Take Off

3 STRESS TEST AREAS

- **Doralab** – Urban Air Mobility Open Air Park
- **Smart Road Circuit**- Connected Cooperative and automated vehicles testing area
- **EDU-LAB Drovetti School**- Learning Tech Laboratory

NEW TRANSFER TECH HUB

TURIN HOUSE OF EMERGING TECHNOLOGIES



Turin «House of
Emerging
Technologies»
(2021 >>>)

+380 startups/SMEs
+25 partners &
Stakeholders



CTE
>>>NEXT

The Project

CTE NEXT is an **Acceleration and Technology Transfer hub** started in 2021, funded by the Italian Ministry of Economic Development and co-funded by main actors of the local ecosystem



CTE
>>>NEXT

Goals

CTE NEXT is aimed to support **startups, SMEs** and **aspiring entrepreneurs** in **developing, adopting, testing and / or going to market** solutions based on 5G & emerging technologies in strategic sectoral areas for TORINO



**WELCOME
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LAB**



Torino City Lab #new wave

An "open green laboratory"

Recently Torino City Lab relaunched itself with the smart life paradigm and with the aim of contributing to the ecological and digital transition of the territory and services to citizens. This reflects the City commitment for keeping climate neutrality by 2030



**ECOLOGICAL
TRANSITION**



SMART LIFE



**SMART AND GREEN
MOBILITY**



**CULTURE AND
EDUCATION**

SOME ONGOING GREEN PROJECTS





Bees by Eric Wa



Photo by Priscilla du Preez

1. ProGlgreg: Nature for Renewal

ProGlgreg is a project funded by the European Commission, under the Horizon 2020 programme, and uses nature for urban regeneration of post-industrial areas in Europe and China. In 4 cities, within Living Lab, that is research activities in the field and in everyday life, are developed, tested and implemented solutions based on nature (Nature-Based Solutions – NBS). Besides Torino, the cities involved are Dortmund (Germany), Zagreb (Croatia) and Ningbo (China), cities at the forefront of urban regeneration experimentation. Four other cities are committed to replicating nature-based solutions, Cascais (Portugal), Cluj-Napoca (Romania), Piraeus (Greece) and Zenica (Bosnia and Herzegovina), and closely follow progress in Living Labs.

Nature-based solutions implemented in Turin

Leisure activities and
clean energy on former
landfills



New regenerated soil



Community-based urban
farms and gardens



Aquaponics



Green walls and roofs



Accessible green
corridors



Local environmental
compensation processes



Pollinator biodiversity

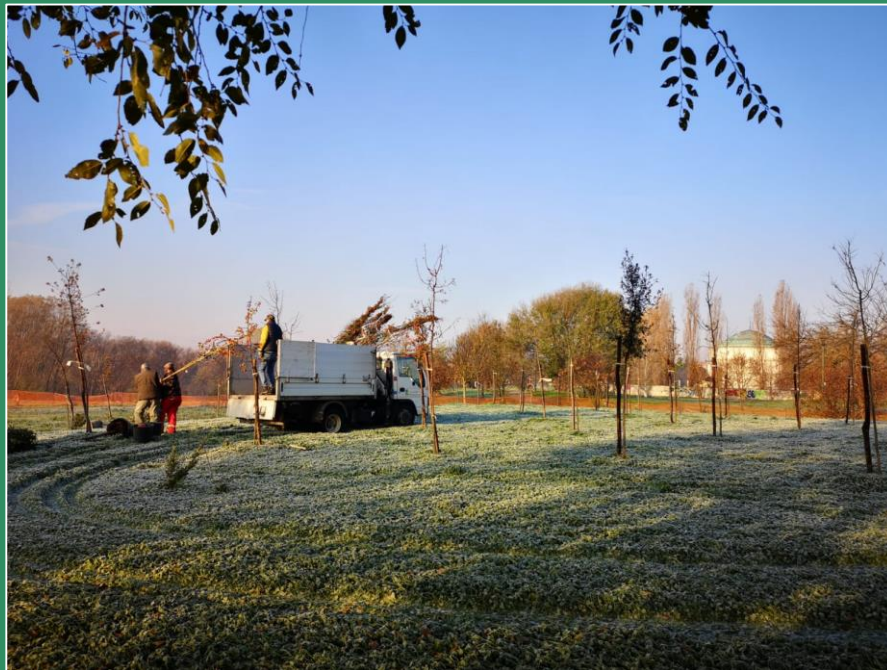


Box gardens at WOW Space



Aquaponics greenhouse crops

New soil along the banks of Sangone stream



Orti Generali urban gardens

The pollinators' homes at WOW Space



Green wall at Cairoli school

2. Wiseair

About the project

Wiseair believes that a problem you can't measure is a problem you can't solve, so Wiseair works to enable municipalities, citizens and businesses to measure and learn about air quality, creating actionable, solution-oriented data and information, and generating awareness.

In small to medium size towns and cities, where there is often no air quality data at all, they sell IDO: an all-in-one monitoring solution that ranges from sensor deployment to data analysis and visualization via online dashboards and mobile app.

Problem and solution

PROBLEM: the interest of citizens and institutions in the air quality in their cities are growing rapidly, but more than 9 out of 10 cities still don't have access to direct air quality data.

SOLUTION: Ido is an all-round platform for municipalities that want to start measuring air quality, going from sensors deployment to data visualization through a dashboard a a mobile app.

Team

Paolo Barbato, CEO
Andrea Bassi, Sales
Fulvio Bambusi, CTO
Carlo Alberto Gaetaniello, COO



IDO: the sensor used by Wiseair for air monitoring



Wiseair Team

3. Reefilla

About the project

Reefilla is the first mobile and predictive charging delivery service thought for users of electric vehicles (EVs) and operators in the mobility business. It allows the clients to have your EV charged where and when you want, without breaking your routine.

The system works with a cloud platform and an app: those who use it are constantly monitored so they never risk being stranded, and when that's about to happen Fillee, the new device by Reefilla, arrives. Fillee is an accumulator that is mounted on a trolley loaded on electric vans that reach out to those who need power. In less than 30 minutes, enough energy is transferred to travel 120 kilometers.

Problem and solution

PROBLEM: The startup wants to solve electric car driver's anxiety over lack of charging stations. It also wants to incentivize electric car use for ecological and environmental reasons.

SOLUTION: to do so, it has invented Fillee, a mobile charging "power bank" capable of charging cars up to 140km wherever they are, in cities where the service is active.

Team

Marco Bevilacqua, Founder
Pietro Balda, Founder
Gabriele Bergoglio, Founder



www.reefilla.com



Milan

Fillee, the mobile charging "power bank"





Want to know more?

CITY OF TURIN, SMART CITY SPECIAL PROJECT,
INNOVATION, EUROPEAN FUNDS.

TORINO
CITY LAB

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