



Powered by HockCore²

www.uleaf.it



TEAM



28.6 years



100%



40% Ph. D.
30% Master's Degree
30% Bachelor's Degree



Carmen Guida
PhD Student Civil Engineering
Social Impact Manager



Stanislao Befante
Entrepreneur
Team Leader



Maria Vittoria Gargiulo
Post-Doc Physics & Sci. Comm.
Project & Relationship Manager



Marco Gallo
Engineering Officer
Product Manager



Michela Salsano
Philosophical Counselor
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Entrepreneur
Business Development Manager



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Architect-Engineer
DMST Model Manager



Ciro Buonocore
Trainee Lawyer
Legal & SMM



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MS: Student Software Engineering
IT Manager



ACKNOWLEDGEMENT

This Project won the Hackaton
‘HackForThePlanet 2021’

organized by the 14 Rotary Districts of Italy, Malta
and San Marino - Rotary International Zone 13.



Rotary
Distretti Italia, Malta, San Marino



SERVE TO CHANGE LIVES

with the patronage of



with the participation of



Scuola di Robotica

MISSION

Ecology as the key to get in touch with environment for a **sustainable future** .

PLAN the future

DESIGN your Green city

MOLD people for a eco-friendly life

PLANT U-lea f

PROBLEM

9/ 10 people

breathe unhealthy polluted air

7M Premature Death

Yearly - due to pollution

9000 kg PM_{10}

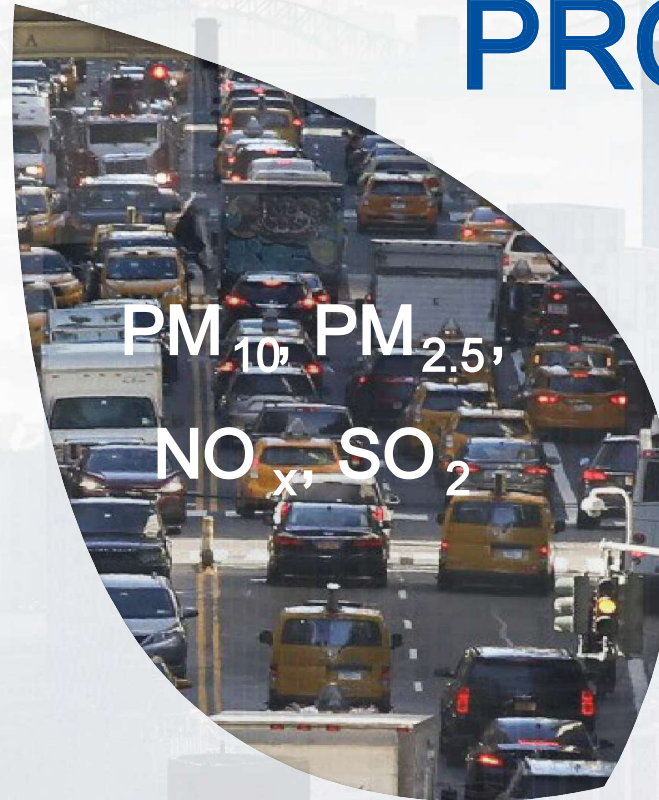
from Home Heating yearly

3T\$

Pollution cost

Pollution-based life

No willing to give them up soon





3kg/year of PM_{10}
Collected by a single device

“A Forest of 500 Trees
Right in your Neighborhood”

Water-based Urban Pollution Capturing Technology

SOLUTION

Innovative air pollutants filter

Capturing PM_{10} - $PM_{2.5}$ at 95% PM removal efficiency

Sustainable governance - B2B

A GIS-based support tool to support eco-friendly urban requalification

Education - B2C

Training and awareness-raising activities for citizens





PRODUCT

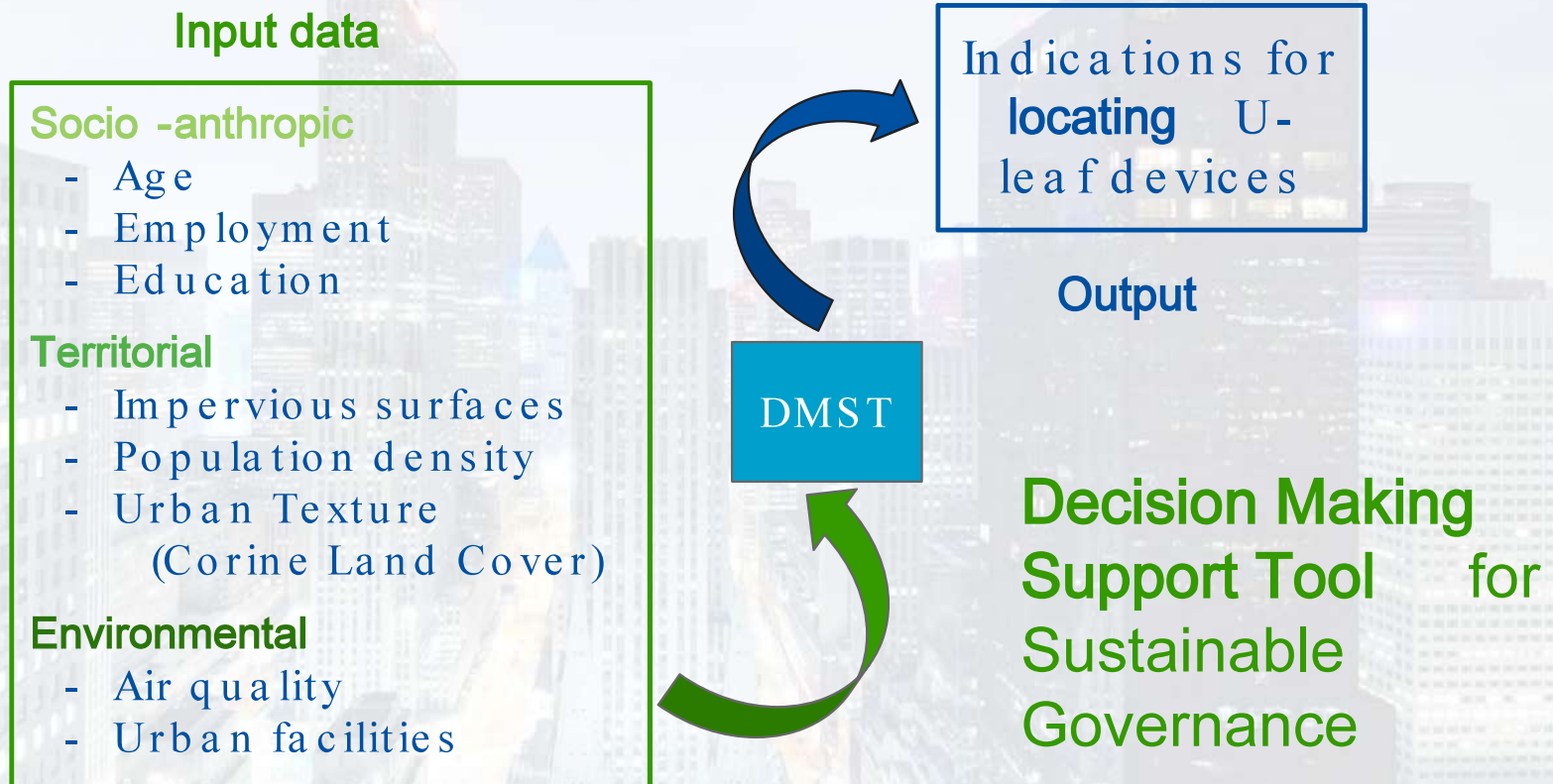
Tree



PRODUCT

Seat

DMST MODEL



U-leaf offers a GIS -based support tool for decision makers to properly locate the devices and efficiently improve the quality of air (and life) of cities.

SROI - SOCIAL RETURN ON INVESTMENT

Health

Urban

Education

competitiveness

Environment

7.9 €

Economic impact on Social
Benefit* with only 1€ investment

*Considering only the social return in terms of health

POTENTIAL ADVANTAGES

- Improves **air quality**
- Reduces health risks
- **Easy integration** in the urban context
- Almost “Plug & Play”
- 3 kg/year of PM₁₀
- Equivalent to half a hectare of forest
- Urban requalification
- Behavioural change
- Versatile potential users
- U-leaf as a service

TO IMPROVE

- Lowering energy usage to make it self sustainable
- Finalise and improve the components efficiency
- Implement a control strategy to properly switch on the device when the pollutants in air are significative

RO ADMAP

Awareness & Dissemination

Prototyping & Analysis

Business Planning

Fundraising

DMST model Validation

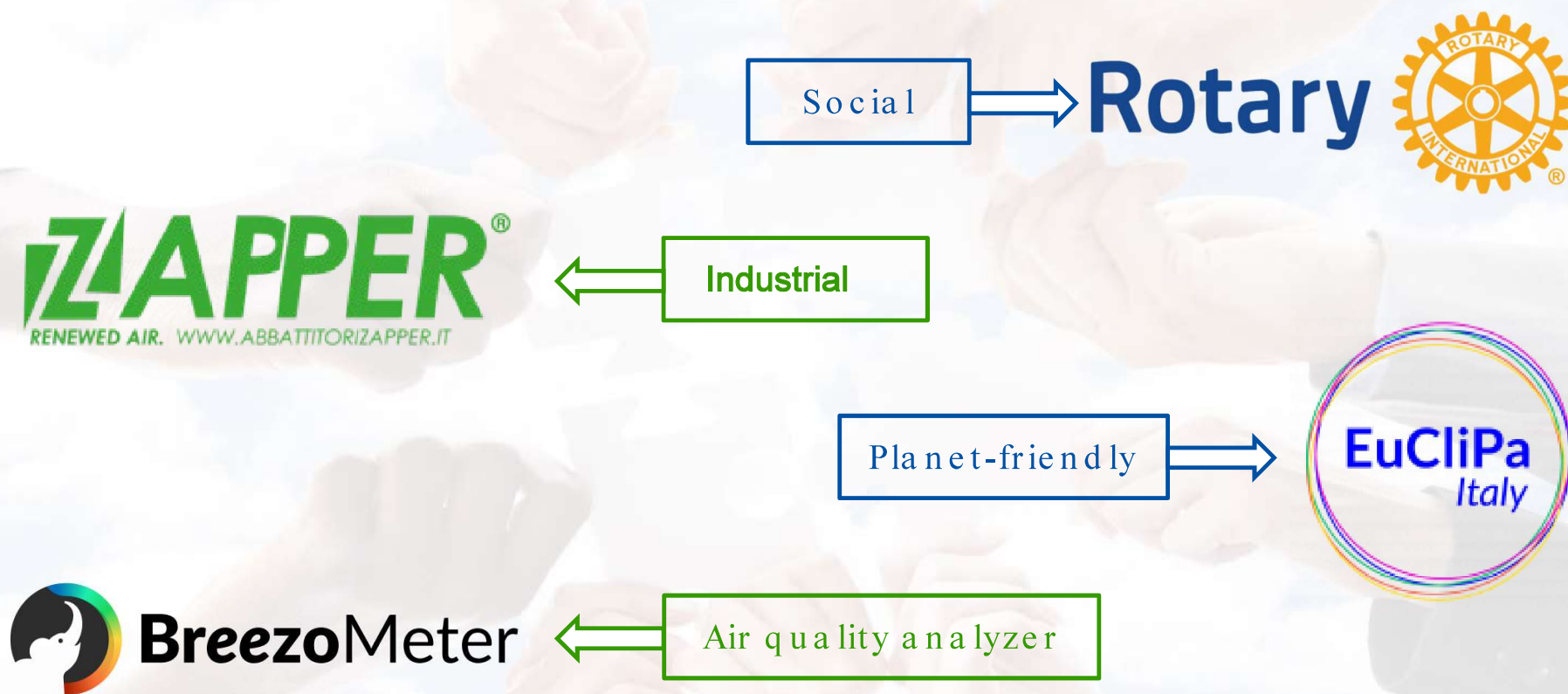
Product & Market Validation

International Business Development

Today

2023

PARTNERSHIP



U-leaf & UN SDG



U-leaf & UN SDG

3 GOOD HEALTH AND WELL-BEING



Ensure healthy lives and promote well-being for all at all ages .
U-leaf decreases the PM10 concentration in the air that surrounds it, protecting from all the diseases derived from PM10 consumption.

11 SUSTAINABLE CITIES AND COMMUNITIES



Make cities and human settlements inclusive, safe, resilient and sustainable .

U-leaf aims at improving quality of life of people in cities and the competitiveness of urban areas by lowering the percentage of PM in the atmosphere.

13 CLIMATE ACTION



Take urgent action to combat climate change and its impacts .

U-leaf aims at mitigating the effects of climate change in urban environment. Thanks to its technology it manages to capture particles of GHG.

U-leaf & UN SDG



Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

U-leaf aims at a behavioural change in the citizen perception of environment so that protecting and restore it becomes a natural habit.



Strengthen the means of implementation and revitalize the global partnership for sustainable development

U-leaf is born by a team of Rotaract fellows who deeply understand how much the support of organisations and communities makes a difference in achieving meaningful goals. Rotary and the Italian climate ambassador community are active partners in our work.



Grazie!

Reach us on:

WWW.ULEAF.IT

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