

Evento 10/20

Martedì 10 maggio 2022

Pomeriggio 14:30 / 16:00

Un'economia a basse emissioni per città, imprese e mobilità sostenibili

Le *smart cities* oggi: esperienze a confronto

(Workshop - Auditorium)



PROGRAMMA:

Moderatrice: Daniela Luise, Comune di Padova

La transizione verde della città di Milano 2030

(E. Grandi, assessora all'Ambiente Comune di Milano)

La transizione digitale del Comune di Padova

(A. Corò, Comune di Padova)

Genova Smart City

(S. Manca, resilient manager Comune di Genova)

Smart Mobility MUVT

(R. Scaramuzzi, Comune di Bari)

Next e l'esperienza del trasporto modulare a guida autonoma

(A. Guadagnino, Paradigma)

L'integrazione delle infrastrutture di ricarica nel *network* cittadino

(A. Chiari, GMT)



PARADIGMACITY

MAKING SMART CITY REAL

Antonio Guadagnino CEO Paradigma

CERTIFIED INCUBATOR BY THE ITALIAN MINISTRY OF ECONOMIC DEVELOPMENT

OUR MISSION IS A SUSTAINABLE FUTURE

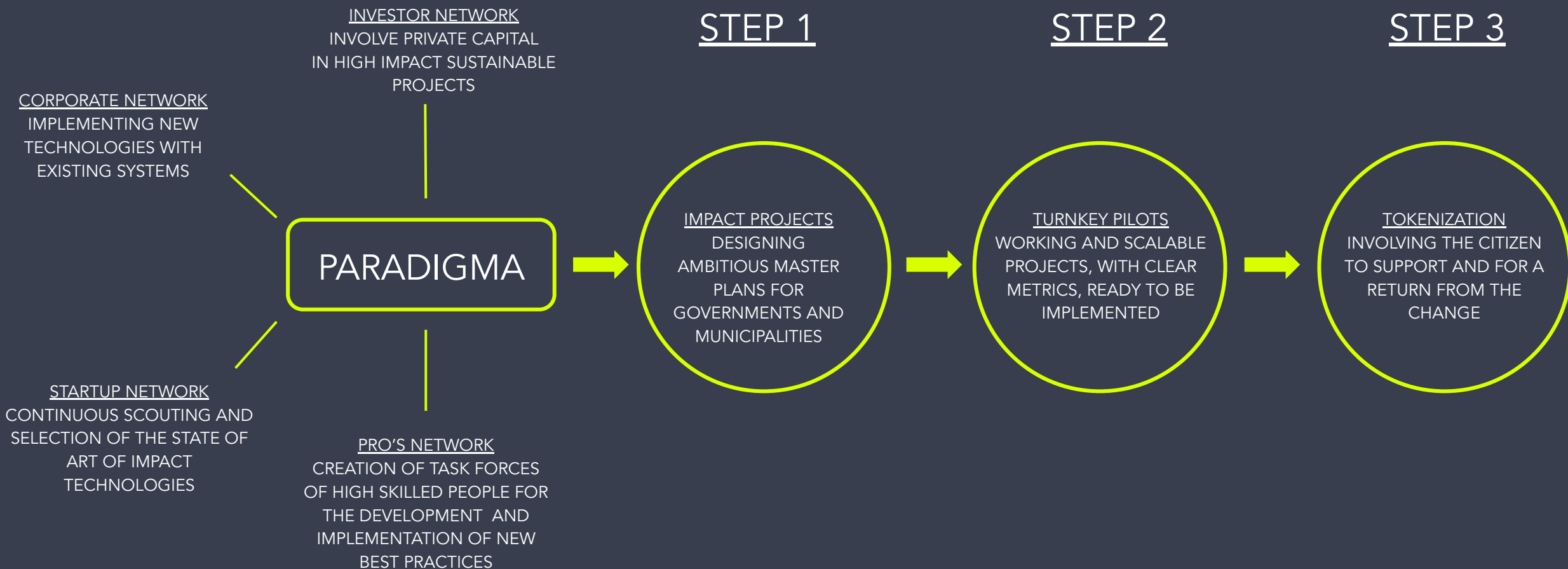
PARADIGMA

1. Supporting **high-impact and high-added-value startups** that can accelerate transition to Smart City
1. Focus on **sustainable and innovative** solutions ready to be implemented and scaled quickly
1. Focus on **top industry metrics**



SUPPORTING PUBLIC DECISION MAKERS TO DRIVE A SUSTAINABLE CHANGE

IMPACT DRIVEN



WHAT WE FOCUS ON

7 VERTICALS

AGRITECH

RENEWABLE ENERGIES

SMART MOBILITY

FUTURE MATERIALS

FINTECH

BIG DATA

COMPUTER VISION



BEST OF BREED INITIATIVES METRICS

POTENTIAL UNICORNS ON SUSTAINABILITY

TRANSPORTATION



NEXT
- 80%

URBAN TRAFFIC
IN PROCESS WITH
RTA

ENERGY /
CONSTRUCTION



GREENETICA
91%

ENEA CERTIFIED
EFFICIENCY

FOOD PRODUCTION



AGRIROBOT
-70%

COST/ha
CNR CERTIFIED

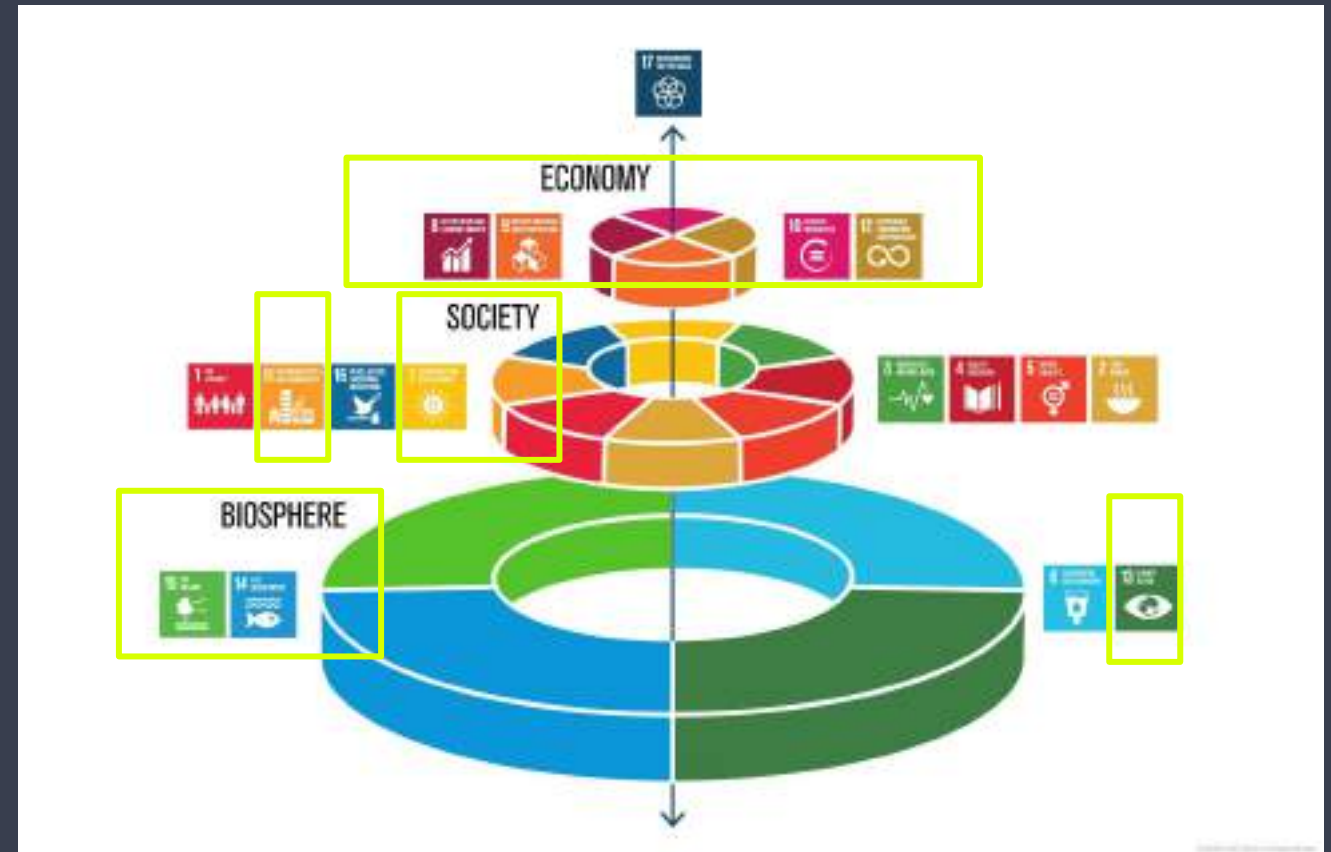
A VISION TO MEET SUSTAINABLE DEVELOPMENT GOALS

A CONTRIBUTION TO LEAD SDGs

1 MASTERPLAN

3 out of 3 macro areas addressed

Possible Benchmark for 9 over 17 GOALS



MOST ADVANCED MaaS & TaaS SYSTEM ON THE MARKET

NEXT MODULAR VEHICLES

- The most efficient urban surface transport;
- Flexible according to demand, modular to replace a family of vehicles for the transport of people and goods;
- The **best metrics** on traffic reduction and cost savings also confirmed by New York University and 4 other universities world wide
- 5 Patents Issued (1 Granted, 1 Approved, 3 Pending)
- TÜV Rheinland Homologation Pre-Assessment = PASSED
- **First Sale: DUBAI RTA**
- **Solar Impulse Label and several international awards and prizes**
- **20+ scientific publications (NYU, UM, USF QUT)**, 2 university thesis, several papers and numerous clinical market tests.

Potential Unicorn	Disruptive Impact	Impact	Best of breed	TRL
Yes	Yes	<ul style="list-style-type: none">• Reduction of traffic with true door-to-door solution• Export globally• Thousands of jobs	<ul style="list-style-type: none">• Patented modularity• 85% certified traffic reduction	8





OUR MISSION

"We don't want only to create cars doing what humans can already do.

We are creating a new kind of vehicles capable to do what no human can do."



70 people on electric / driverless cars



70 people on next

A single module is equivalent to an electric citycar or to a last mile electric delivery van



Product Details

MODULAR ELECTRIC VEHICLE

- Electric vehicle **2.7 meters long** but large and tall as a city bus
- Each unit fits 5 passengers sitting + 1 driver in a very compact footprint
- Single unit can be used as a regular city car, but multiple standard units could be **physically joined together** creating a minivan up to a city bus
- When in bus mode 5 pods can fit up to 80 passengers (29 sitting)
- Therefore a single production line can produce many **different vehicle types**

METRICS

60% to 80%

traffic footprint reduction compared to an average city car due to the form factor

15% to 75%

consumption reduction if used as a variable capacity bus (compared to an e-bus) due to modular energy management

85%

less CAPEX to start the mass production of a wide range of vehicles types due to:

- Flat minimal design and production
- Standardized small single vehicle
- Up to 5 modules dockable together

Two modules are equivalent to an electric minivan for people or for cargo delivery



4 or 5 modules are equivalent to an electric bus or a long cargo truck



Business Model | Use Cases

4 parallel scenarios profitable and doable right now before self-driving will be legal on public roads

INDUSTRIAL AREAS

Driverless already feasible

24/7 service with modular charging

Repurposable idle vehicles for just in time

CARGO & DELIVERY

From truck to local delivery vans **without transshipment**

Reduced need for local **warehouses**

Cargo-Hitching with Modular Bus possibility

MODULAR BUS

Just **one bus driver** for up to 80 passengers

From **15% to 75% less consumption**

Cyclical & **modular in-Service Sanitization** system

NON-STOP-TAXI-POOL

One **taxi driver in each** NEXTaxi

Up to **300% more capacity**

Up to **75% cost savings**



Operations | NEXT LHF 4.0 Lean Production - High Scalability

Suppliers High Local Availability

95% of the industrial areas worldwide have the main suppliers needed to manufacture a Next unit: laser cutting/bending, tube laser cutting, CNC milling.



LOW Initial costs



Designed by NEXT in Italy

Highly recognised brand value, key IP and core subsystem made in Italy: Docking System Black Box steganography seal protected, software, AI core and firmware.



Battery Technology Agnostics

Battery pack is swappable in minutes, so the battery technology can be easily customized based on the availability and needs of the region.

Recent Updates | Padua & Dubai

Paid trials in Padua for city mass implementation [completed](#) | 6 Months Pods rental sponsored presence at EXPO Dubai [completed](#)



PADUA, ITALY

EU Backed Project

Trials both on dedicated and public roads

Study for mass implementation



DUBAI EXPO

Sponsored by L'Oréal

Mall in Motion business model showcase

6 Months Rental - Vehicles in the Mobility Area

THE CITY OF THE FUTURE

PARADIGMA.CITY:

- **LAUNCHING DISRUPTIVE SUSTAINABLE INITIATIVES**
- **ACCELERATING INNOVATION ECOSYSTEM**
- **INVOLVING LOCAL PRIVATE CAPITAL**
- **CREATING SKILLED JOBS**
- **MAKING IT A SCALABLE CONCEPT FOR CITIES**

THANK YOU

Antonio Guadagnino
CEO Paradigma

FOR MORE INFO ABOUT PARADIGMA ACTIVITIES:

<https://www.paradigma.city/>

<https://www.facebook.com/paradigma.city>

<https://www.facebook.com/paradigma.city/photos>

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