

ASECAP DAYS



MILANO 2024

User centric sustainability

Connected car data driving the evolution

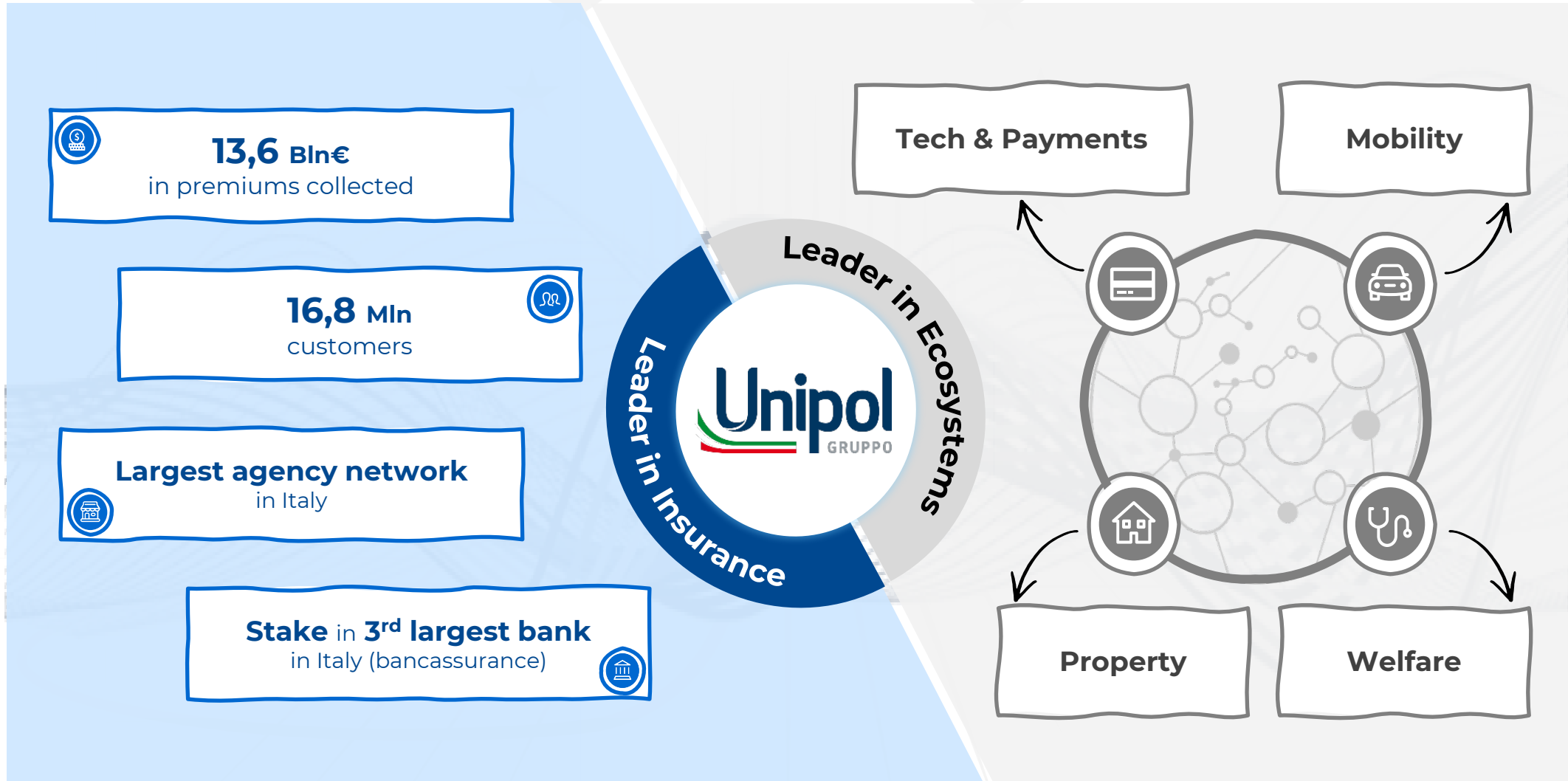
ORGANIZED BY



HOSTED BY



UnipolTech | About the Unipol Group



UnipolTech SOLUZIONI TECNOLOGICHE

Centre of excellence in new technologies,
enabler of different services across ecosystem



Design of new devices



Management of existing products



Offering of services
(insurance and “beyond-insurance”)



Relationships with technical partners



Support in interactions with institutions



Focus Mobility



>4 Mln

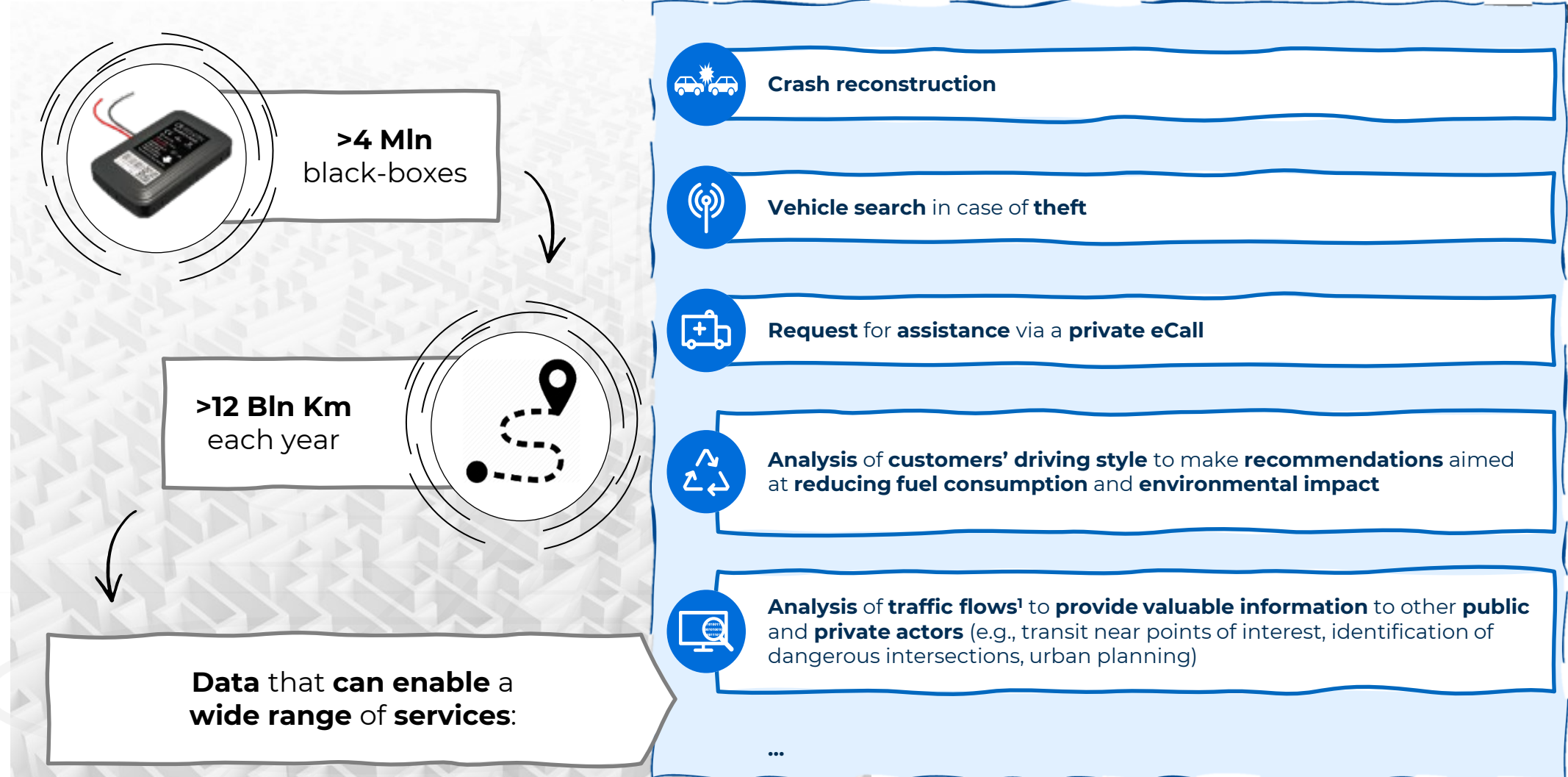
50% of Unipol
Group Motor
TPL clients

black-boxes managed that enable services
for the assistance and safety of Group clients



1st European player to be accredited
to the European electronic toll
collection standard with
UnipolMove
with nearly 1M active customers as of
now

UnipolTech | Value of data generated by UnipolTech devices



- 1. With respect for customer privacy, and thus in an anonymous and aggregated form

UnipolTech | From “Black-box” to “Green-box”

The **“Green-box”** is not a different device, it is an **evolution** of how we use our existing **“Black-boxes”**

Paradigm change in mobility telematics

From

Black-box

focus on crashes to provide assistance, with driver safety in mind

To

Green-box

extension of telematics benefits to sustainability (client and collectivity)



Today,
access to

limited traffic areas is based mainly on the **polluting class of vehicles** (i.e. Euro x) and **some municipalities** are introducing **rules** based also on the **number of Km** traveled (e.g. MoVe-In)

Using **data** generated by **UnipolTech boxes** and **academic studies on CO₂ and NO_x emissions**, we found out that **polluting class** and **number of Km** are **not adequate** measures of **actual pollution**

Key elements to **measure actual pollution** are also:



Average speed:

If speed is too high or too low, emissions per Km are higher

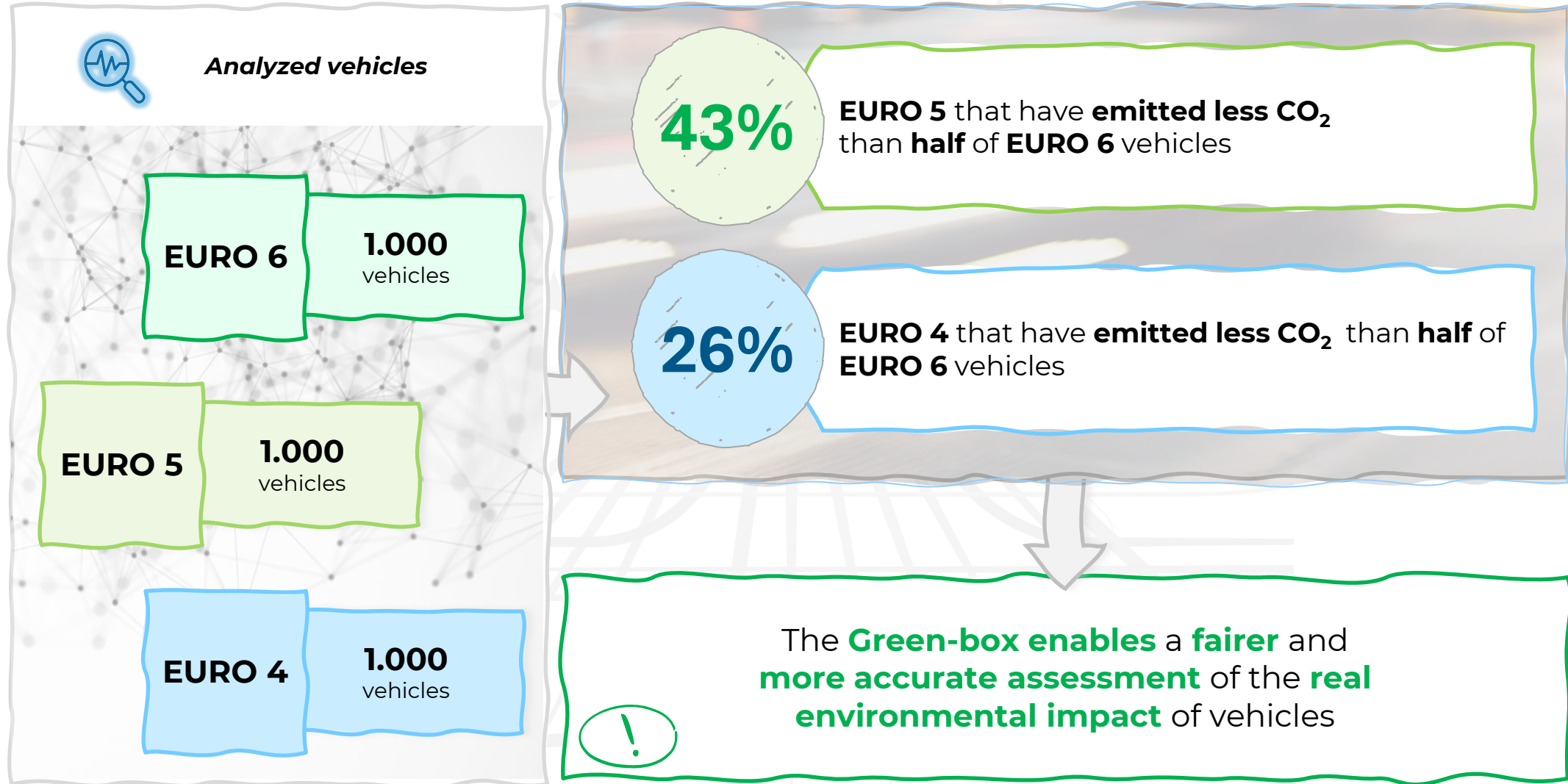


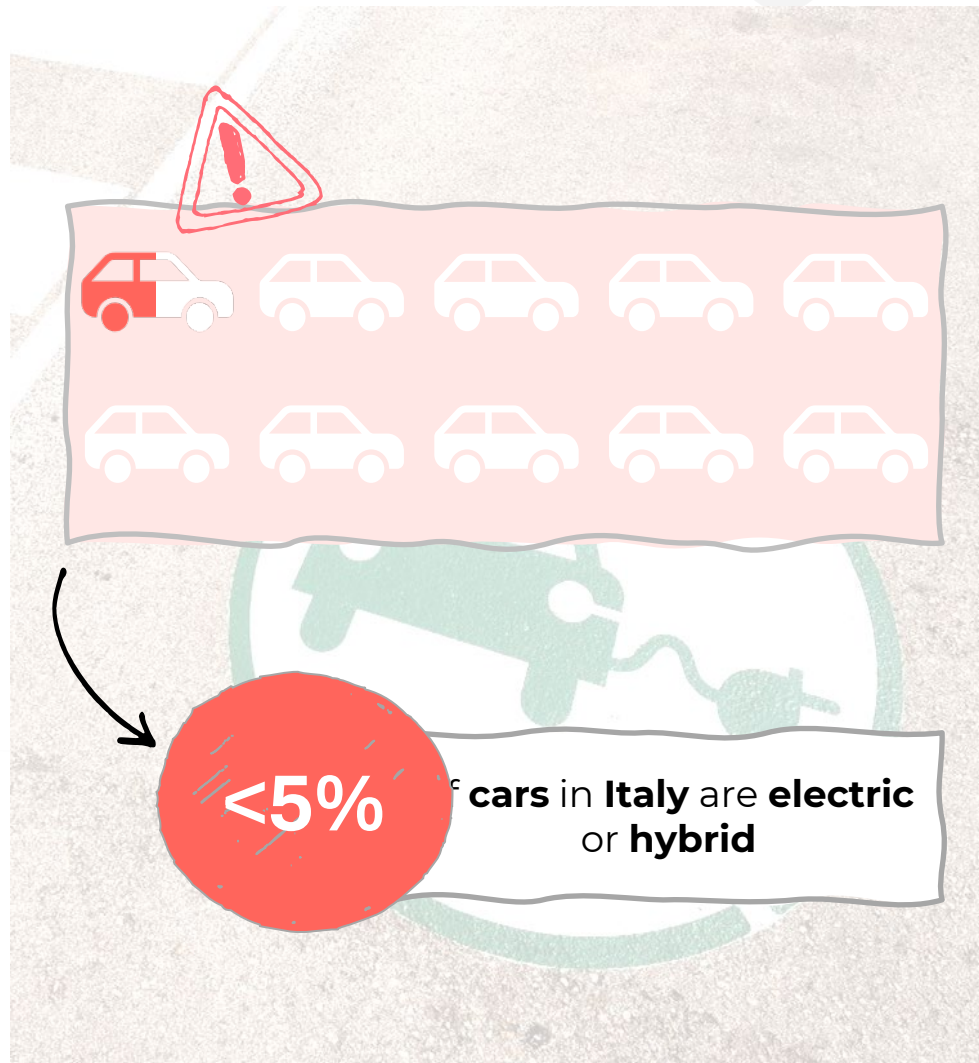
Driving style:

An aggressive driving style increases emissions

Using the **AS IS** telematic **boxes**, UnipolTech can provide **municipalities** with this **information**, making **sustainability** measures **more effective**

UnipolTech | Example of Green-box application on CO2 emissions





<5%

of cars in Italy are electric or hybrid

Green-box

aims to intervene on the

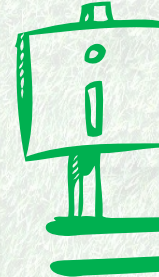
95%

of the car fleet that is still made up of internal combustion vehicles



With **this solution** we **set ourselves** the **challenge** of **raising customer awareness, introducing** the **concept of**

User-Centric Sustainability



The **customer**

becomes aware and **responsible** for his **environmental impact**



&



is **rewarded/ penalized** according to his **behavior**

UnipolTech design* for unique device to offer insurance telematics and mobility payments



TELEMATICS



Crash detection¹



Driving style



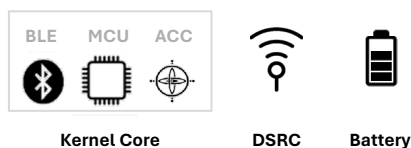
Crash reconstruction²



Roadside assistance



Real-time info



Unique device (Smart Drive + UnipolMove) that allows to «enable» and «disable» insurance-telematics and mobility payment services based on Client choices

MOBILITY PAYMENTS

- ✓ Native on device
- ✓ Through app

Toll payment



Milan Area C



Structure parking



Roadside parking



Refueling



Fines & Stamp duty



V[M]aaS Services



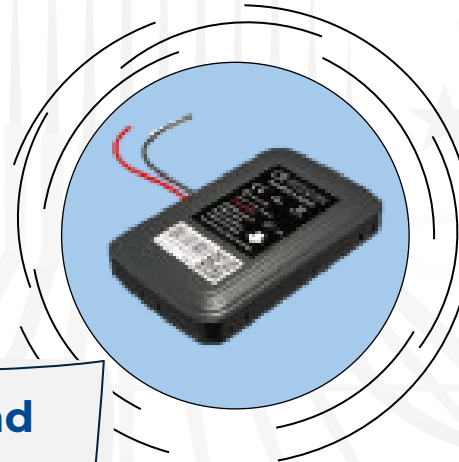
*Device under SET certification on Italian toll domains

CCAM4Italy and Model4Italy as Digital Twins (CCAM&MOD4Italy)



UnipolTech participates to **CCAM4Italy and Model4Italy as Digital Twins**: a project endorsed by **EU commission, Italian Ministero dell'Università e della Ricerca, Italia Domani (NRPP)** and **MOST** (National Sustainable Mobility Centre)

CCAM&MOD4Italy project is carried by ten partners including **first tier universities, Unipol** and **A.S.P.I.** among others over 15 months



Using **available technology** such as the **UnipolTech boxes**, would lead to a significant **cost reduction** for **Connected Cooperative Automated Mobility** implementation, hence an **easier market adoption** on a **national level**

CCAM&MOD4Italy involves multiple **research and competence centers** across Italy and thanks to **certified labs** and a **dedicated test environment** aims to show how the **vehicle-infrastructure communication** based on 5G technologies could significantly **improve road safety**

ASECAP DAYS



MILANO 2024

THANK YOU

GRAZIE

Paola Carrea
paola.carrea@unipoltech.it
+39 335 6140028

UnipolTech
SOLUZIONI TECNOLOGICHE



HOSTED BY



—milanoserravalle—
—milanotangenziali—

ORGANIZED BY

