

E T N A
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CEIIA

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MOBILITY
mobi.me
AYR



AERONAUTICS
AW609
Leonardo Helicopters



OCEANS
MEDUSA
Deep Sea Autonomous
Underwater Vehicles



SPACE
MECSE
Nanosatellite



AUTOMOTIVE
BE02 and B.Bike
Smart Mobility Devices





Sustainability by design

+300

Engineers

+10

Countries with projects

One of the largest R&D investment in Portugal

(nonprofit organisations - IPTN 2017)

CEiiA has an agenda towards accelerating the transformation of cities into smart and sustainable urban ecosystems, promoting liveability

SUSTAINABLE
Urban sustainability and decarbonisation



SMART
City digitalisation and data revolution



URBAN LIVING
Liveable communities and happy citizens





Free Technology Zones and Living Labs

Regulation vs. Technology



Smart mobility products

Connectivity devices and Mobility devices



Technology Valorization

Smart mobility services



Sustainable mobility platform



Sustainable mobility services ecosystem

Development



Production



Distribution



Operation / Services





Smart mobility devices

Products to be use as a service

BIKE SHARING & PARKING



Integrated solutions for the management of electric and non-electric bicycles shared system

BUDDY FROM ELBILNORGE (NORWAY)



Restyling of BUDDY, an EV built in Norway. Also safety improvement, new and lighter materials with an economic technology for small series production

FLOW.ME (CAR-DRONE)



A new device to combine existing integrated mobility systems with a new all unified transportation mean which fully integrates horizontal and vertical mobility



Sustainable platforms

Smart and sustainable service



Quantify

AYR platform quantifies CO₂ emissions avoided by the adoption of sustainable mobility modes, such as the use of a bicycle instead of a gasoline-powered vehicle in commuting trips.



Value

AYR platform tokenizes the quantified avoided CO₂ emissions into green digital credits (token AYR) which are stored in the user's digital wallet. The user can access its AYR wallet through an app.



Exchange

AYR tokens can be exchanged for green goods and services, rewarding citizens' sustainable behavior. Goods and services include sustainable mobility services, charging electric vehicles, parking or low-carbon food, creating a local AYR marketplace.



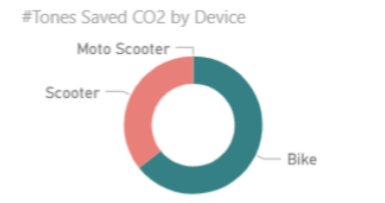
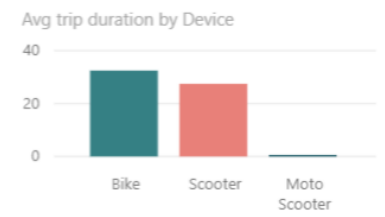
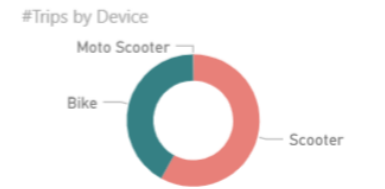


AYR

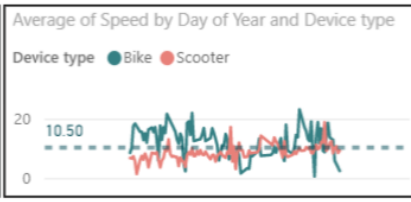


1087	2929	14K	4.76	4.18	12.2K	12.2K
#Devices	#Trips	#Total kms	#Avg km Trip	#Avg AYR Trip	#Circulating AYRs	#Generated AYRs

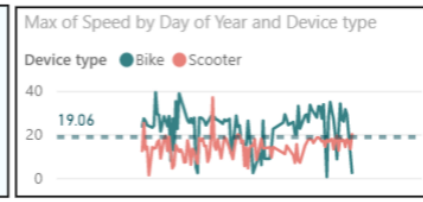
- Gaia
- Gondomar
- Lisboa
- Maia
- Matosinhos
- Piloto AYR**
- Porto
- Sines



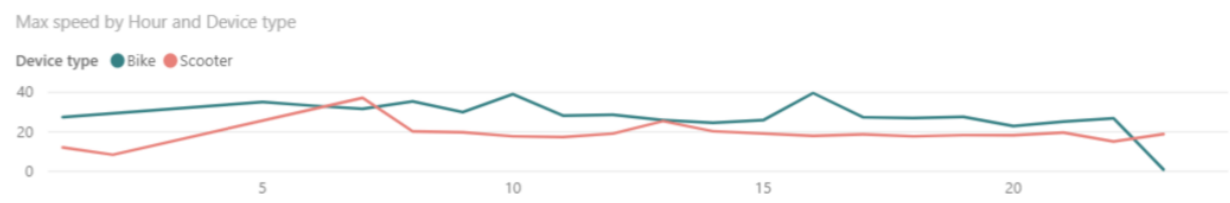
10.81
Avg Speed



37.31
Max Speed



Speed	trip	source
Infinity	41595220-7e0d00e1-52f2-4b41-9f3c-46a6ab91b8f4	AYR
Infinity	41595220-c5ba749b-811e-45b1-a5c0-913f53ec24aa	AYR
9,654.55	eaec278d-46d8-4477-9372-02cad34944fa	WYZE





REGULATION vs. TECHNOLOGY

Free Technology Zones and Living Labs for advanced urban mobility products and services

AYR pilot

WeShare by AYR

wednesday 17 July 2019		11:28:11 AM <small>Refresh every 30 s</small>		WeShare <small>by AYR</small>	
TRIPS	Total	53828	Total km	160901	Items per trip
GENERATED AYRS	Total	147236	Last 24h	4248	Last 7 days
REMOVED CO2 EMISSIONS	Total	14765	Average per trip	274.3	Average per km
				91.8	



ISSN 2:

2018 European Enterprise Promotion Awards

Supporting the Development of Green Markets and Resource Efficiency - Winner

Recognises policies and initiatives that support SME access to green markets and help to improve their resource efficiency

Matosinhos Carbon-zero Living Lab enhanced by local carbon market, Portugal

Contact: Mr José Pedro Silva Rodrigues
Email: jose.pedro.silva@matosinhos.pt
Further information: www.labmatosinhos.pt

The Matosinhos Carbon-zero Living Lab tests sustainable and innovative solutions, products and services to foster a local carbon market in an industrial coastal municipality. Local residents and businesses are encouraged to develop and propose projects, which are then implemented and made available for municipal use. The local carbon market uses CO2 emissions credits gained through the adoption of sustainable solutions such as bike sharing, sustainable lighting or artificial intelligence applied to building management. The credits can be exchanged for goods and green services and are an incentive for sustainability in the municipality, which previously had a high carbon footprint.

"It is an honour for our work on low carbon solutions for both businesses and citizens to be recognised on a European level, and we hope to keep spreading our ecological message"

Connect. Share. Innovate.




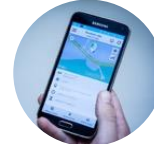



Topics of interest for 2020




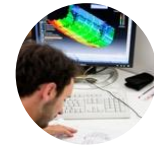

CALL: MOBILITY FOR GROWTH:

- 1. Low-carbon and sustainable transport
- 2. Safe, integrated and resilient transport systems
- 4. Accounting for the people



Living labs, Tech Free Zones, Conectivity devices and platforms

- 3. Global leadership and competitiveness



New concepts and business models for decarbonization, Engineering design, Structural calculus, Aviaton networks

CALL: GREEN VEHICLES



Urban light mobility devices for tests and Prototyping