



BrainBox
Technology Excellence

ELECTROMOBILITY AND SHARING ECONOMY

Electrification and Sustainable Mobility

BRAINBOX SUSTAINABLE MOBILITY SYSTEMS

BrainBox
Technology Excellence

We are trying to rewrite the rules of the private transportation game.

SHARED
MOBILITY

endeavor

Member since 2014

4.500 BIKES

The renting process involves all the modern technologies such as the use of electronic RF-ID cards, NFC payments from mobile phones and credit card payment points.



120 STATIONS

We are manufacturing bike-sharing systems, which allow the public use of bikes through automated systems with the help of new technologies.

BRAINBOX SUSTAINABLE MOBILITY SYSTEMS

RFID



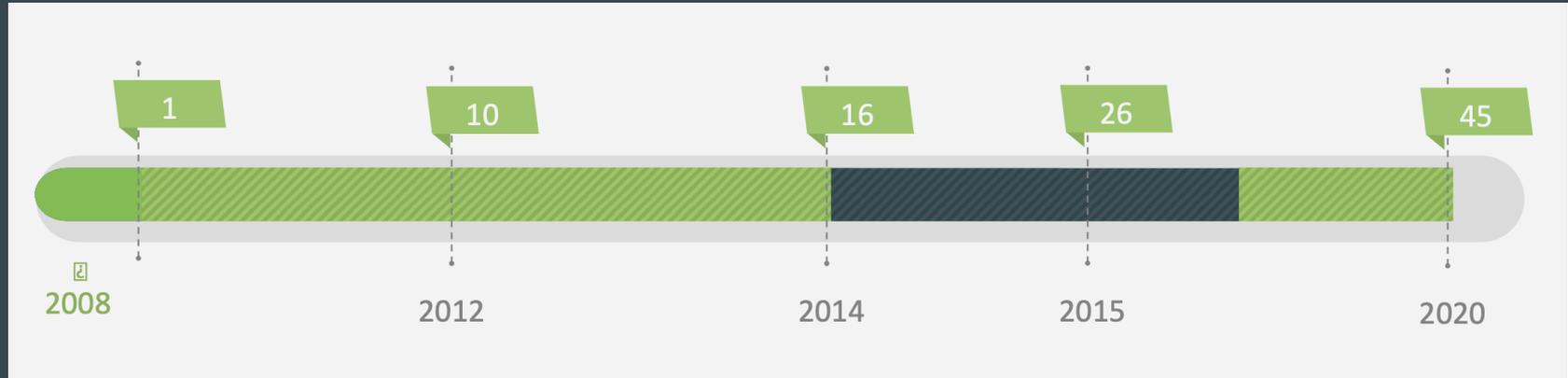
NFC



APP



M PAYMENTS



BRAINBOX BIKE SHARING

45 CITIES WITH 4.500 BIKES AND E-BIKES IN GREECE, CYPRUS, POLAND NETHERLANDS AND NORWAY



BRAINBOX BIKE SHARING

BrainBox
Technology Excellence



STAVROS
NIARCHOS
FOUNDATION
CULTURAL
CENTER

ΚΕΝΤΡΟ
ΠΟΛΙΤΙΣΜΟΥ
ΙΔΡΥΜΑ
ΣΤΑΥΡΟΣ
ΝΙΑΡΧΟΣ



ΕΘΝΙΚΗ ΤΡΑΠΕΖΑ

BRAINBOX BIKE SHARING



BRAINBOX CAR SHARING

1ST E-CAR SHARING PROJECT IN GREECE POWERED BY BRAINBOX



A REVOLUTIONARY TRANSITION STIRS THE WORLD OF TRANSPORTATION

Electrification is rapidly changing the automotive industry. Innovative technologies and new business models are transcending the industry.



- Telecom companies interested in car sharing and bike sharing
- Supermarkets are competed with gas stations
- IT manufacturers work on autonomous vehicles
- Car, bike and e-scooter manufacturers work on MaaS models
- Cars become electricity storage units and vehicle-to-grid systems are promoting renewable energy

ELECTRIFICATION AND THE MARKET

There are currently over **357 million passenger cars** on the road in Europe, 37% are located in Eastern Europe.



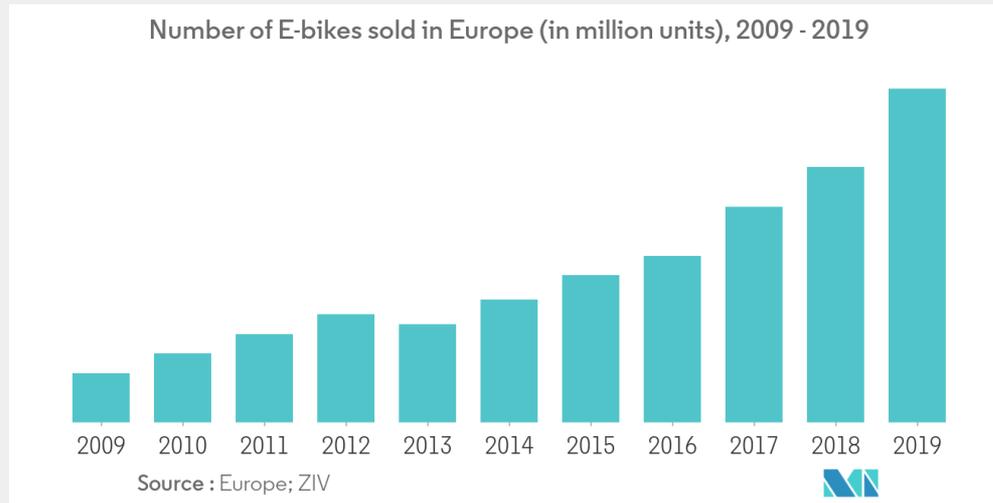
The number of new registrations across Europe fell by almost 21% compared to 2019 due to COVID 19 crisis.

However, sales of electric cars increased massively.

PHEVs and BEVs now already account for 12.4% of new registrations in Western Europe.

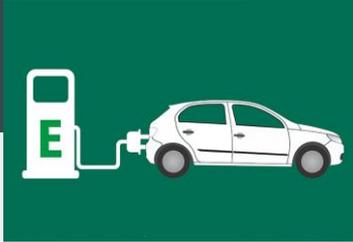
ELECTRIFICATION AND THE MARKET

The e-bike market was valued at USD 23.89 billion in 2020. The market is expected to witness a CAGR of 11.86 % during the period, 2021-2026.



ELECTRIFICATION MAAS AND SHARING ECONOMY

The transportation is definitely changing.



Autonomous

- EV vehicle architecture has a central control unit to facilitate autonomy
- Autonomous charging could add convenience



Connected

- A connected EV ecosystem could increase the convenience of charging
- Connected car grid solutions could enable cost-effective load balancing



Automotive industry megatrends

Shared

- Greater annual driving distances can offer a decisive TCO edge for EVs
- Some consumers may prefer access to multiple vehicle types over ownership (including EVs)



Electrified

- Tightening emissions efficiency rules make EVs necessary to meet standards
- Lower battery costs improve EV economics



SOURCE: McKinsey Sustainable Mobility Initiative

ELECTRIFICATION MAAS AND SHARING ECONOMY

The transportation is definitely changing.

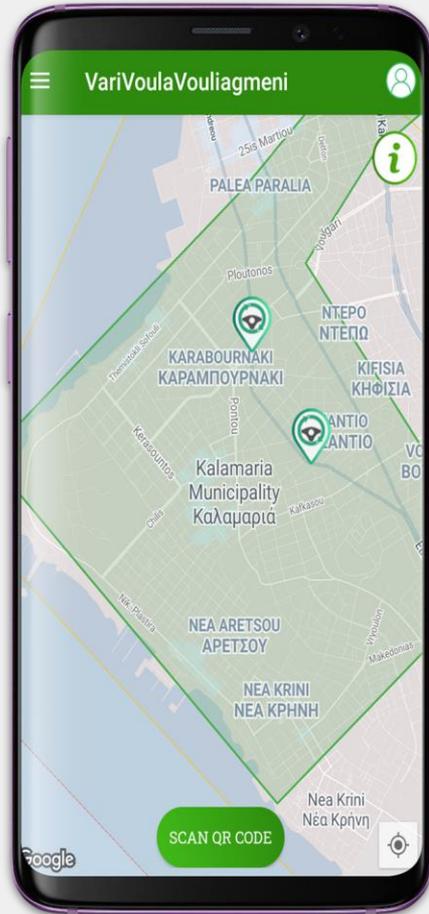
The Netflix logo, consisting of the word "NETFLIX" in red, bold, sans-serif capital letters on a black rectangular background.The ShareNow logo, featuring the words "SHARE" and "NOW" in white, sans-serif capital letters stacked vertically on a blue rounded square background.The WeShare logo, with "We" in a large, blue, stylized font and "share." in a smaller, blue, sans-serif font below it, all on a white background.

In a few years from now, more and more people instead of buying cars will consume mobility like they consume Netflix. And the car makers understand that if they want to remain relevant for those billions of people living in cities, they need to transform themselves and to become **shared mobility operators** and they do so with electric cars at the same time to promote their new electric vehicles.

- **ShareNow** the merger of BMW DriveNow and Daimler's car2go offers the BMW i3 model and other fuel-powered variants and has 3030 e-cars in 15 markets (Milan, Vienna, Berlin, Hamburg, Munich, Copenhagen, Helsinki, Budapest and Lisbon, etc)
- **WeShare** from Volkswagen and Skoda deployed 1500 e-Golfs in Berlin and has plans for ramping up the service to eight cities in 2021, including Paris, Madrid and Budapest, Munich, Milan. The fleet would then amount to around 8400 electric vehicles in total.

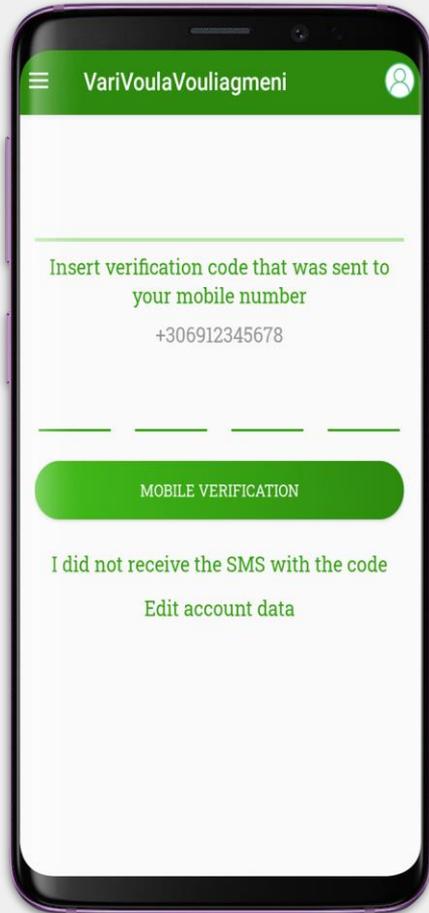
RENT A VEHICLE WITH EASE

- Select an available vehicle or book it in advance
- Follow directions to the vehicle location
- Inspect and report any vehicle damages
- Unlock the vehicle via the mobile application
- Commute with optional 'Stopovers' (Temporary Parking Mode)
- Return/Lock the vehicle via the mobile application
- Rate your trip



SERVICE OPERATION MODES

- **Free-Floating within an operational area**
 - Park in any valid parking spot within a defined district
 - Ideal for compact urban areas
 - Great flexibility and freedom for drivers making one-way trips
- **One/Two Way Trips - area/zone-based**
 - Park anywhere within the designated areas/zones
 - Do not have to search for an open parking space, save valuable trip time



EASY 5 STEP SERVICE REGISTRATION*

1. Fill the required fields of the registration form
2. One time mobile authentication through SMS
3. Attach a digital copy of driver's license and ID
4. Fast human verification of driver's licence and ID [**/**]**
5. Add your payment method (visa/debit card)
 - Ready to use the service

* Registration process via mobile application (Android/iOS)

** Support of new and old Driving Licences

*** No Automation Validation Errors

SUPPORT ALL MAJOR PAYMENT GATEWAYS

stripe

STRIPE

Stripe is an American financial services and software as a service (SaaS) company headquartered in San Francisco, California, United States

vivawallet

VIVA WALLET (GREEK)

Viva Wallet is the first European entirely cloud-based neobank using Microsoft Azure with branches in 23 countries in Europe..

Braintree

A **PayPal** Service

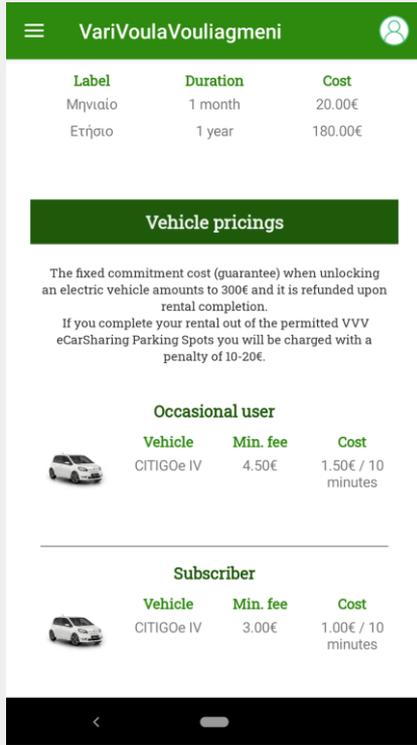
PAYPAL/ BRAINTREE

Braintree, a division of PayPal, is a company based in Chicago that specializes in mobile and web payment systems for e-commerce companies

PayPal

PAYPAL

PayPal Holdings, Inc. is an American company operating a worldwide online payments system that supports online money transfers and serves as an electronic alternative to traditional paper methods like checks and money orders



E- WALLET

We cover all your unique travel needs on any given day of any given week

- Different billing options for commuting for a short or long period of time
 - Minutes
 - Days
 - Months
- Different Subscription Levels with Different Billing Bonuses
 - Occasional
 - VIP
- Special B2B Billing Rates

Micromobility
Minutes



Carsharing
Minutes to Days



Digital Rental
Days to Weeks



Subscription
Months

ENVIRONMENTAL IMPACT

What really makes us proud is the environmental impact of our systems. Only last year with the help of our systems, the citizens biked more than **12 million Km and the CO2 savings was more than 2.500 tones.**



As **low and zero emissions zones** are becoming reality in more and more European cities, the future of urban mobility is electric and shared.

CONSIDERATION FOR THE FUTURE

- Stipulations of the European Union as key driver of MaaS and sharing schemes
- Autonomous vehicles new services and business models
- Multimodality will increased
- Innovations in software and applications (AI, 5G applications)
- The expansion of the charging infrastructure
- Exploitation of big data from transportation schemes to take decisions
- COVID 19 change of behavior





THANKS



<http://bikesharing.gr>
<http://www.ecarsharing.gr>
<http://www.brainbox.gr>
<http://www.easybike.gr>
<https://www.youtube.com/user/bikesharing>
<http://sharing.bike>
<https://www.flickr.com/photos/easybike/>
<https://www.linkedin.com/company/brainbox-technology/>
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