



smart &
sustainable
island



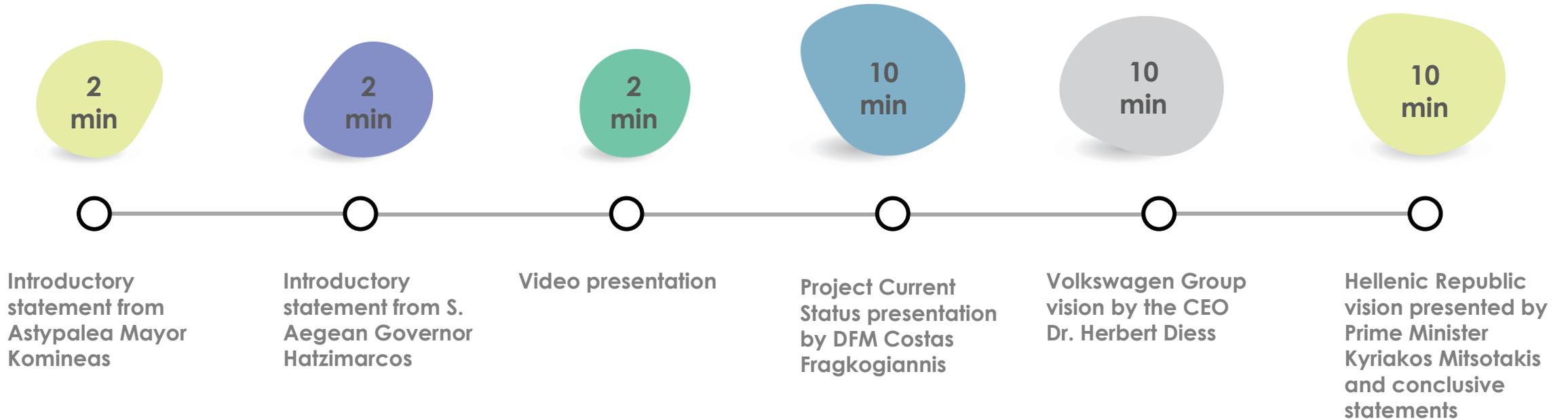
VOLKSWAGEN
AKTIENGESELLSCHAFT



HELLENIC REPUBLIC
Ministry of Foreign Affairs

ENTERPRISE GREECE
INVEST & TRADE

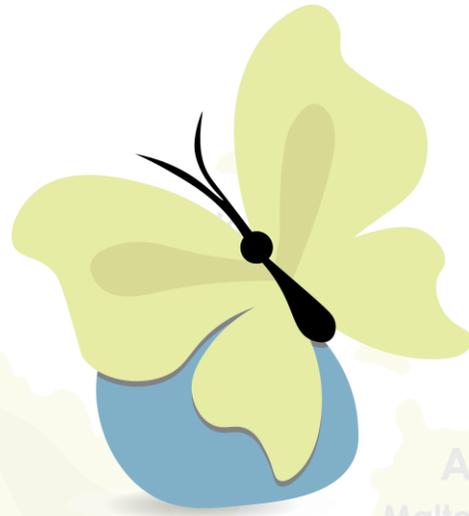
Today's agenda



The butterfly of the Aegean



The butterfly of the Aegean



Just when the caterpillar thought its world was over...It turned into a butterfly

Just when climate change is to cause detrimental damage to the planet, 'Astypalea', the butterfly island, sends a message of **hope** and **transformation**

Introductory note



The **Hellenic Republic** is committed to **Green Energy, Sustainability** and **Innovation**



Volkswagen Group under “**TOGETHER 2025+**” Strategy makes mobility sustainable for current and **future generations**



Together we act and take **responsibility** towards both the **environment** and **society**

Vision of the project



Smart and Sustainable Island

picture of the future, before the future

Contributors



VOLKSWAGEN

AKTIENGESELLSCHAFT



The 4 pillars

e-vehicles



smart
mobility



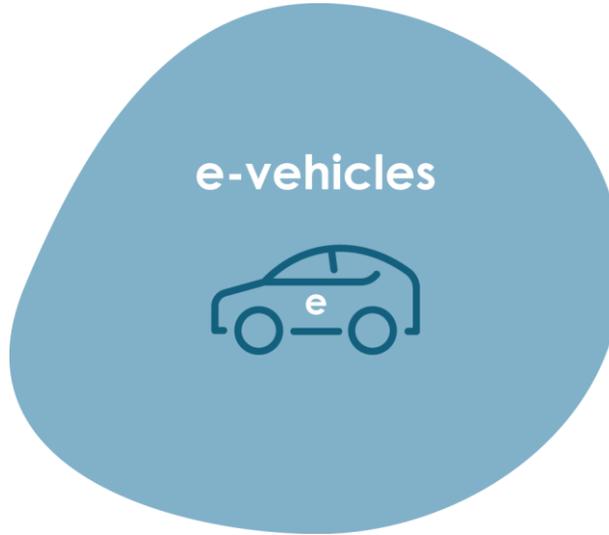
charging and energy



future option
autonomous
driving



1st Pillar: **Vehicle Electrification**



Switching the existing fleet of combustion vehicles with electric ones

1st Pillar: **Vehicle Electrification**

e-vehicles



micromobility



Passenger
Cars

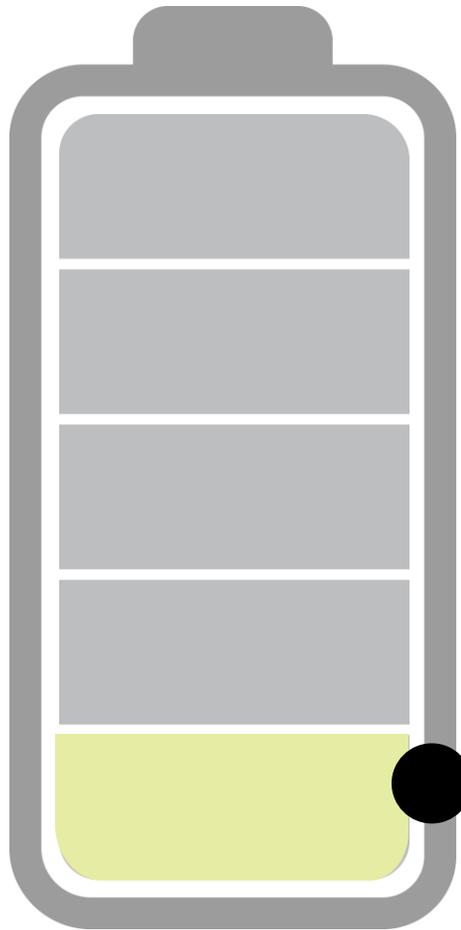


Utility and light
Commercial
vehicles

1st Pillar: **Vehicle Electrification**

What is completed

e-vehicles



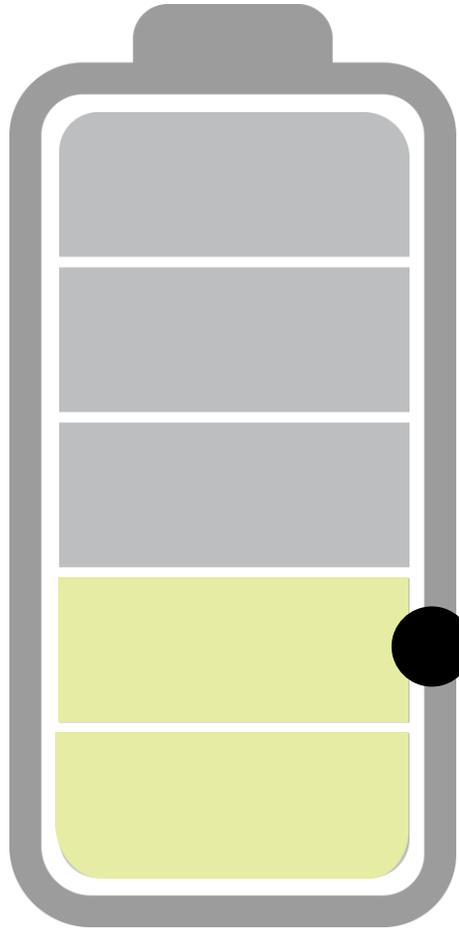
The first 12 electric chargers are installed





1st Pillar: **Vehicle Electrification**

What is completed

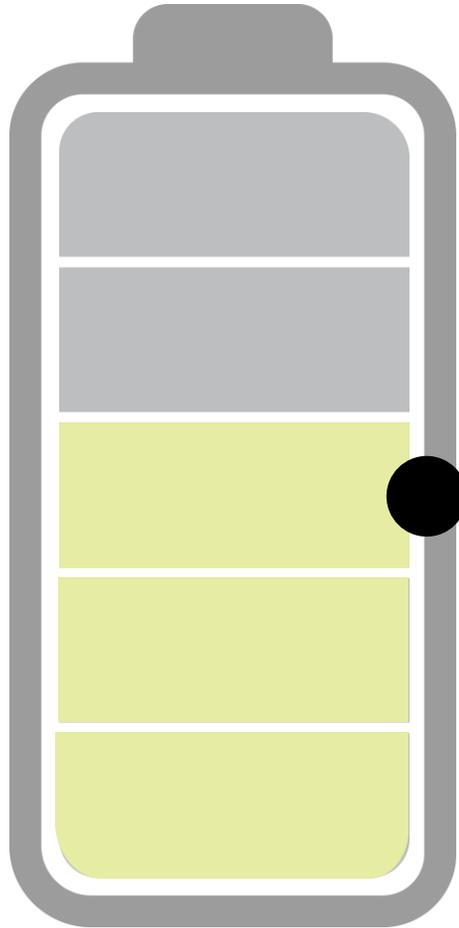


Utility vehicles: Volkswagen Group



1st Pillar: **Vehicle Electrification**

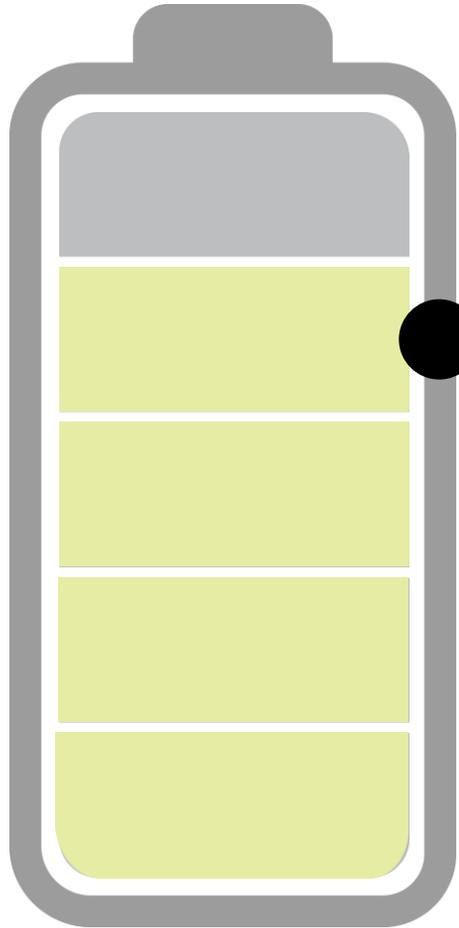
What is completed



Banking loan facility is available

1st Pillar: **Vehicle Electrification**

What is completed



e - astypalea program is developed
Digital platform is launched

e-vehicles



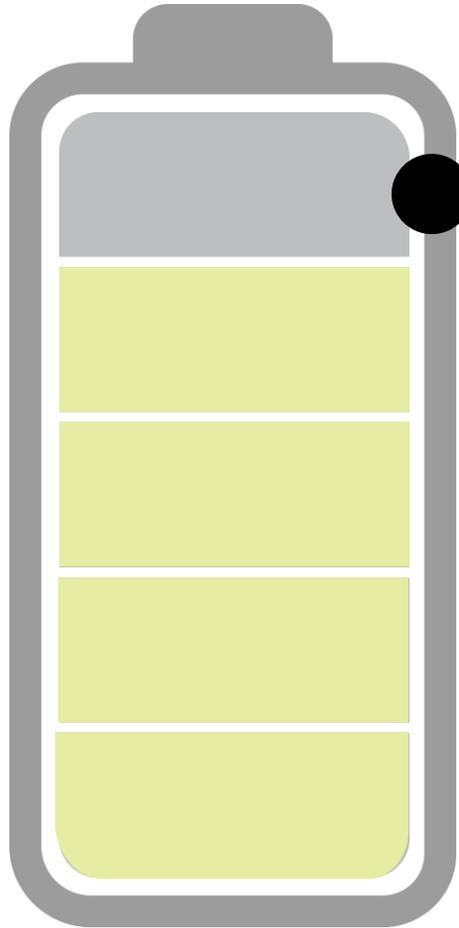
e-astypalea

Greek islands go electric



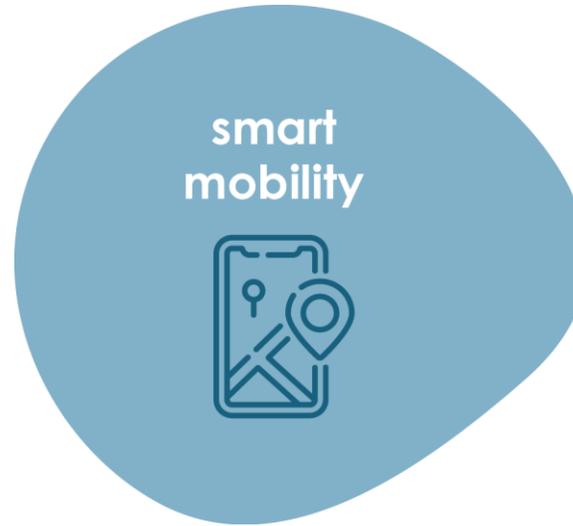
1st Pillar: **Vehicle Electrification**

What remains to be done



Installation of remaining chargers (60 total)

2nd Pillar: **Smart mobility**



Public transportation will operate on demand, taking us wherever we wish, whenever we need.



2nd Pillar: **Smart mobility**

Transforming the way transports being made



-  Smart digital service - application
-  Hub - workshop for e-vehicles and parking & charging station for e-shuttle buses
-  Full technical support
-  3 phases

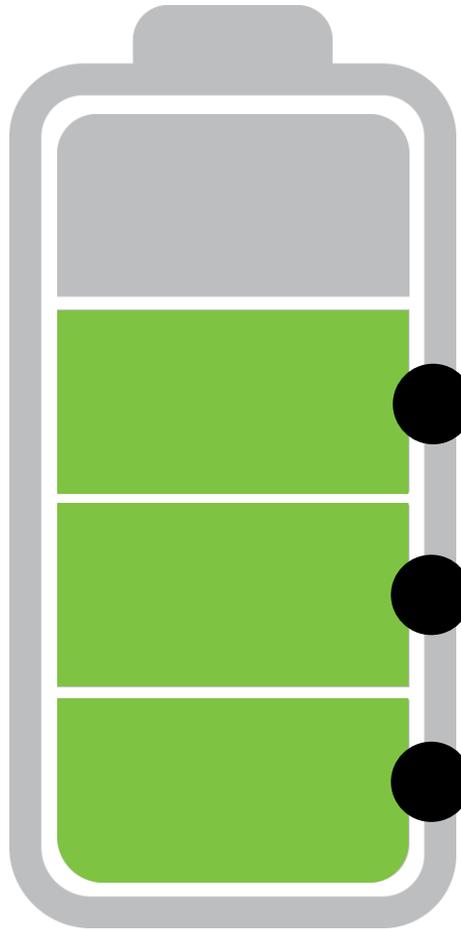
2021 2022 2023





2nd Pillar: **Smart mobility**

What is completed



Legal framework is in place

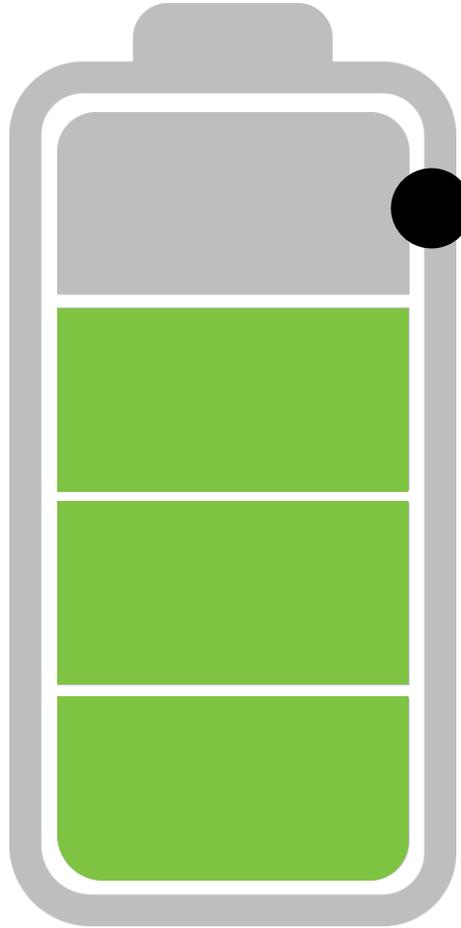
Partnership with current operators secured

Fundamental elements are specified



2nd Pillar: **Smart mobility**

What remains to be done

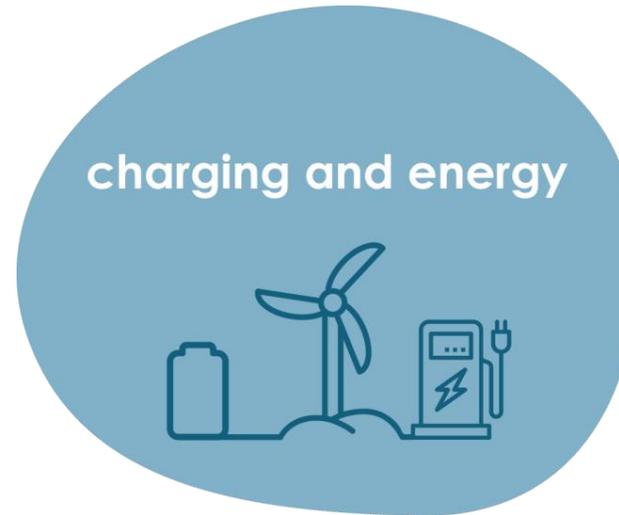


Definition of service operation

Vehicle sharing implementation assessment

National legislation adjustment

3rd Pillar: **Charging and energy**



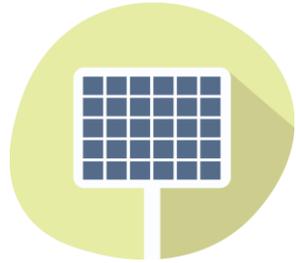
**A hybrid energy system will replace
the existing diesel generators in 2
phases**

3rd Pillar: **Charging and energy**

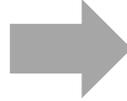
Hybrid energy system



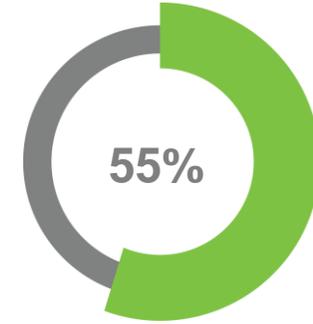
1st phase (by 2023)



Photovoltaic Plant
3 MWh
Battery system
7 MW



of electric vehicle
charging needs

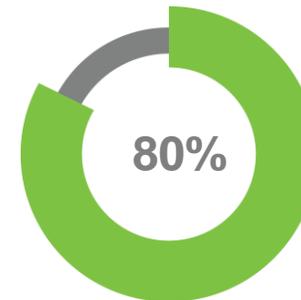
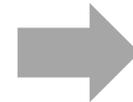


of island's overall
energy demand

2nd phase (by 2026)



Hybrid system expansion
(potential addition of
wind turbine)



of island's overall
energy demand

3rd Pillar: **Charging and energy**

Hybrid energy system

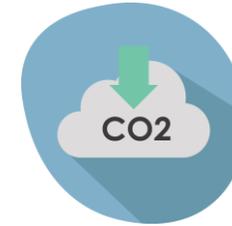
charging and energy



Showcase an innovative technical and commercial model to match electrical vehicle charging with renewable energy.



Reduce energy costs by at least 30%



Reduce CO2 emissions by 50% in phase 1 and 70% in phase 2.



Project to serve as a pilot for green energy production in non-interconnected Greek islands.

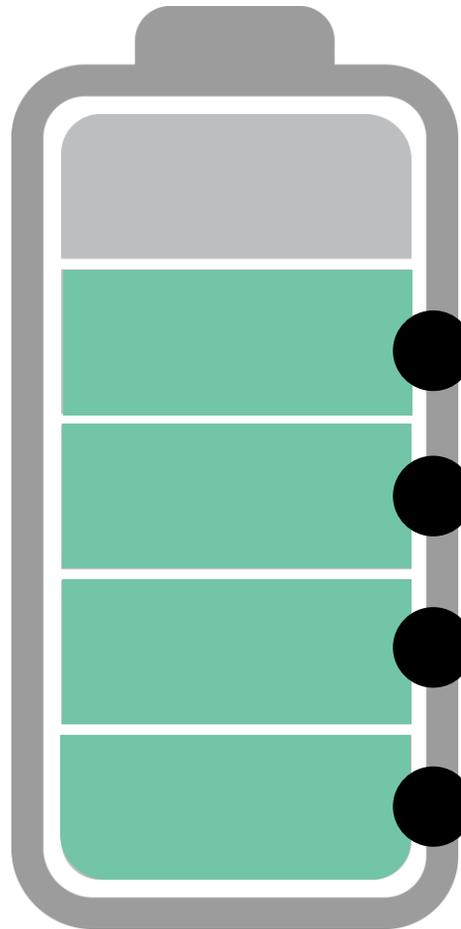


Increase energy security and resilience, while reducing dependence on fossil fuels.



3rd Pillar: **Charging and energy**

What is completed



Potential locations for PV plant and battery unit are targeted

Legislation to allow auction launch is in place

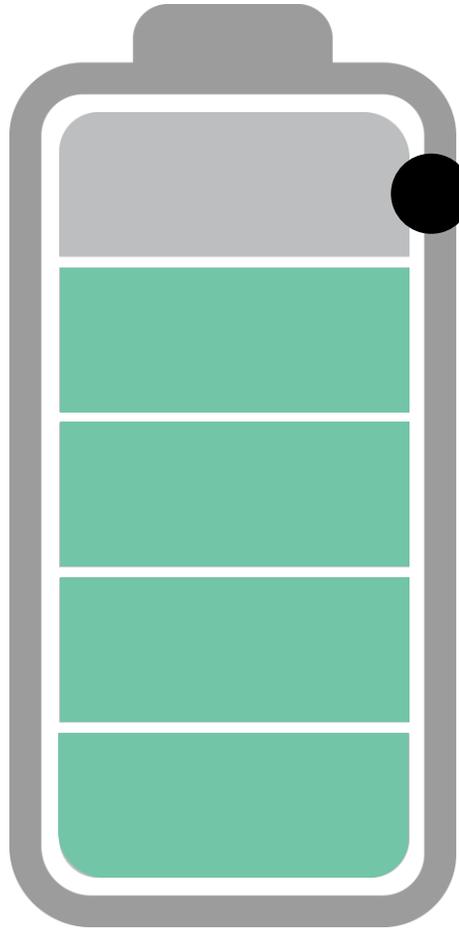
Tendering process is defined

Key aspects of the system are specified



3rd Pillar: **Charging and energy**

What remains to be done



Auction to select hybrid system developer

Licensing procedures – connection agreements

Installation and connection to the grid – operation of phase 1

4th Pillar: **Autonomous driving**



Autonomous driving may be tested on the island, given the available technology. Road & signage excellence will be provided

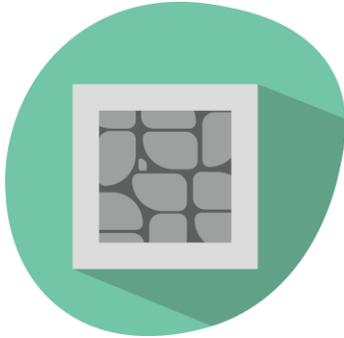
Further Actions

Research study



Further Actions

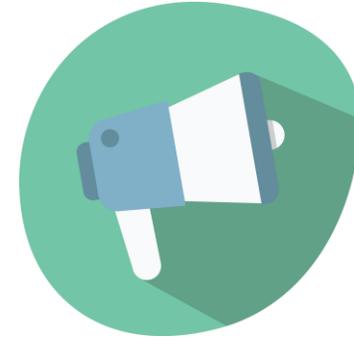
Communication Plan



Local community



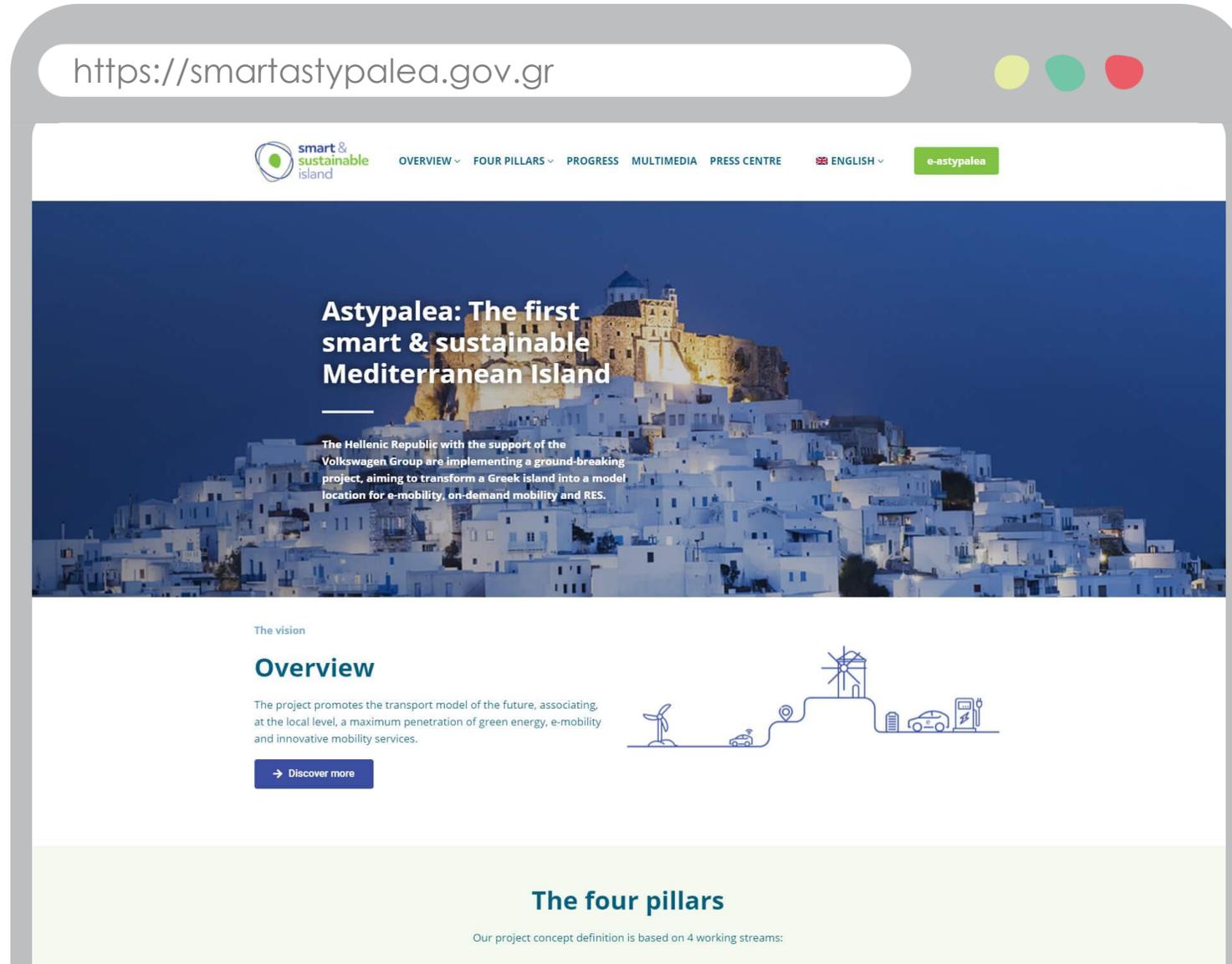
Partners



General public

Further Actions

smartastypalea.gov.gr - available on 10th June



Further Actions

Rebranding Greece



Hyperdrive
VW Will Transform a Greek Island Into a Green Mobility Hub

Despite COVID-19, Greece makes strides on high tech ambitions

From a new drug research hub to island incubators, Greece is starting to position itself for the 'Fourth Industrial Revolution'.



CARS

Volkswagen & Greece Bringing Climate Neutral Mobility To A Mediterranean Island

The Greek island of Astypalea in the Aegean Sea is transitioning to electric transportation powered by clean energy thanks to Volkswagen.

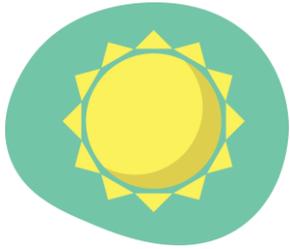
By Steve Hanley Published November 6, 2020

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Further Actions

Greece is Changing

Sun



Sea



Sand



Solar

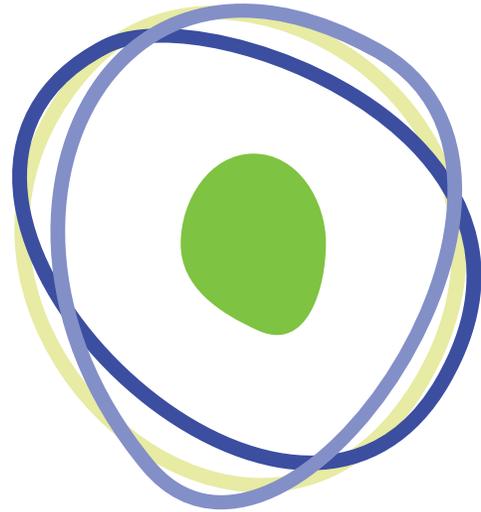


Smart



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