

**smart &
sustainable
island**

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Project concept definition based on 4 working streams:

e-vehicles



on-demand
mobility



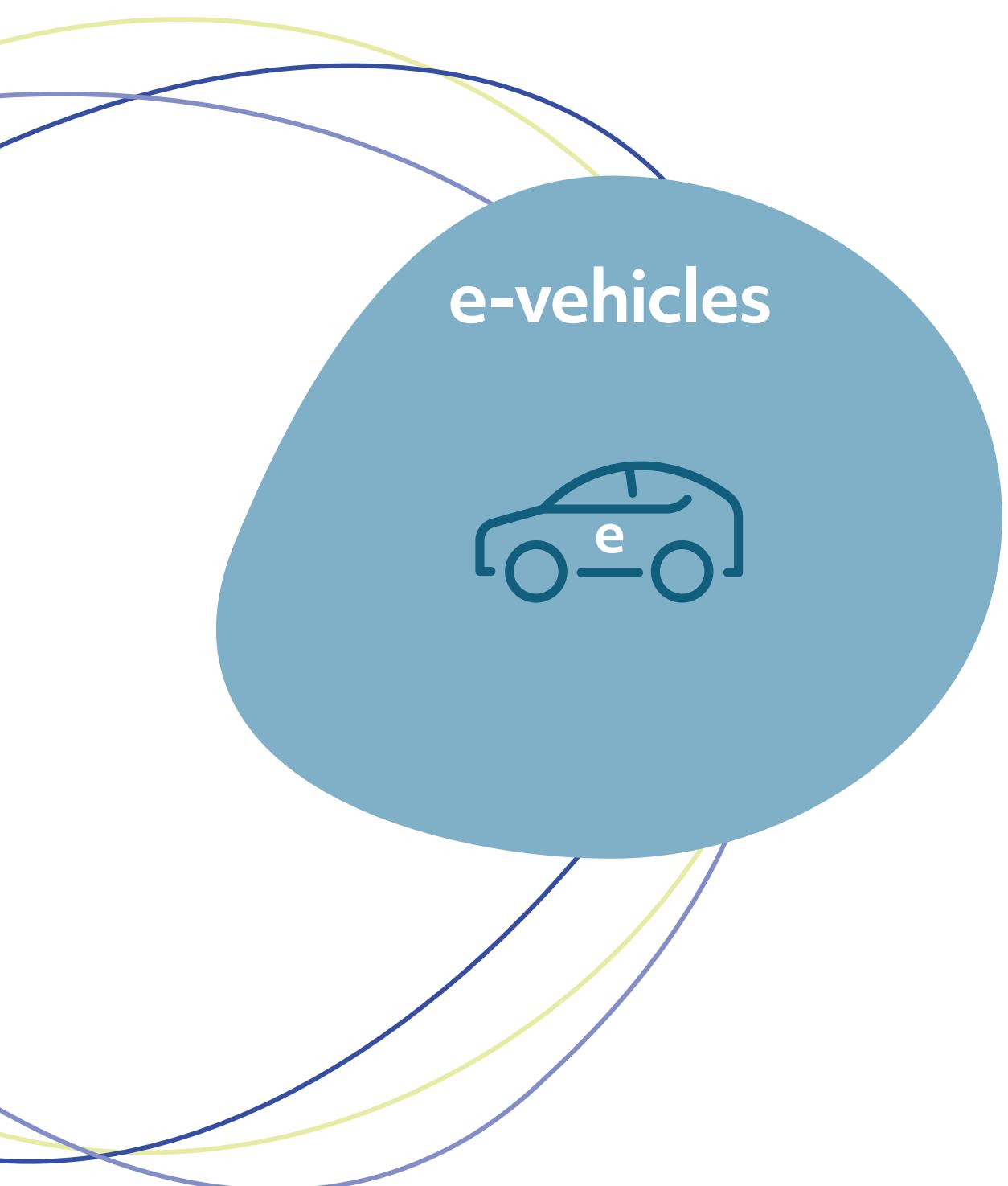
charging &
energy



conditional
autonomous
driving



Vehicle electrification



- ✓ Reduction of the current vehicle park on the island
- ✓ Carbon-neutral mobility and smart mobility management - the vehicle park shall be converted to sustainable electric mobility.
- ✓ Switch the existing fleet of combustion vehicles with electric vehicles: from micromobility to passenger cars to utility and light commercial vehicles.
- ✓ Smart mobility services that will be available exclusively with electric vehicles, both the current rental and taxi businesses of the island are planned to become electric.

- ✓ Passenger vehicles from local residents as well as commercial vehicles from local businesses shall also be gradually electrified.
- ✓ Utility vehicles such as police vehicles, ambulances and authority vehicles shall also be adequately replaced with electric scooters, passenger cars, and light to medium commercial vehicles - meeting the needs of those respective services.



On-demand^(smart) mobility

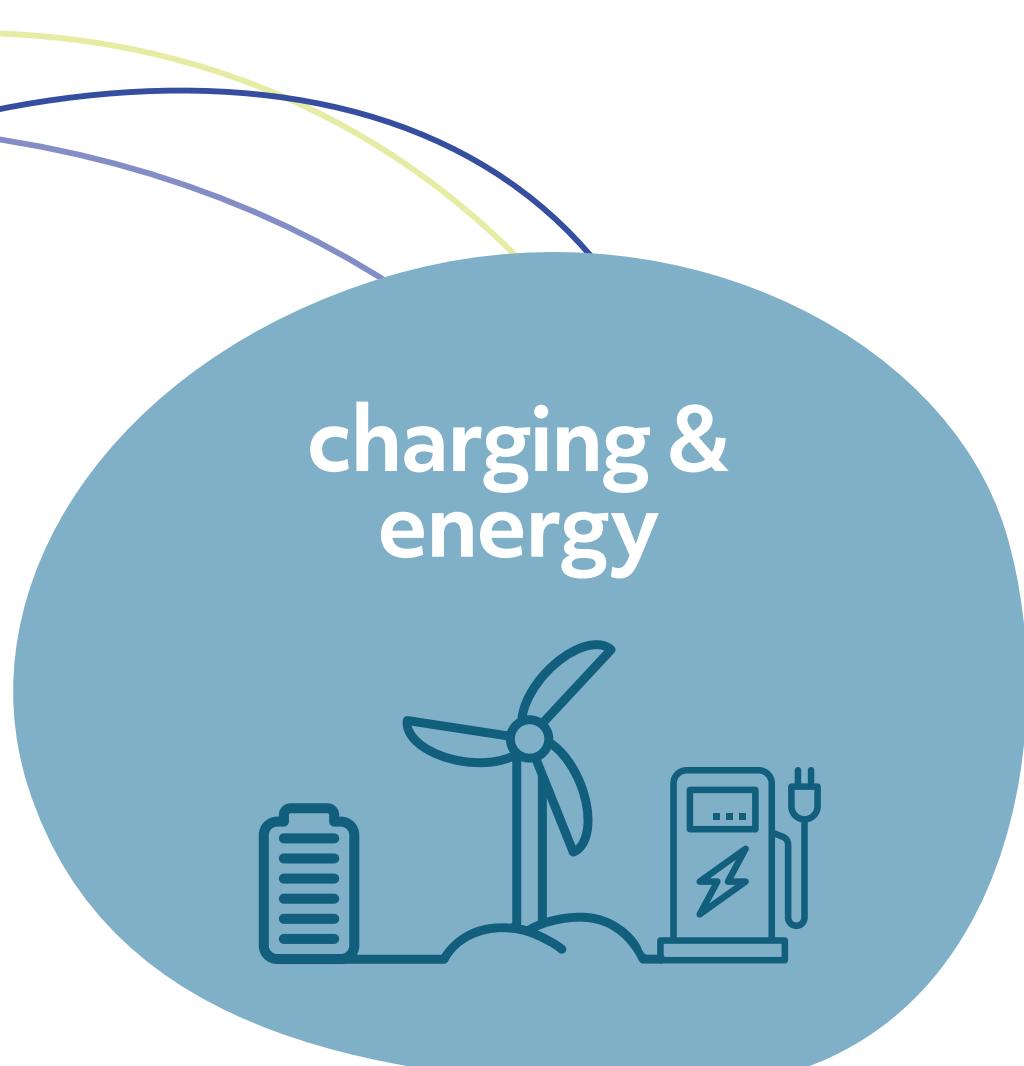


- ✓ New innovative mobility services – namely, ridesharing and stationary vehicle sharing,
- ✓ The traditional bus public transport shall be transformed into a ridesharing service that will deploy 100% electric on-demand shuttles.
- ✓ E-shuttles shall be operated on the island according to the needs of both locals and visitors,
- ✓ The entire island shall become accessible by public transport to everyone, day and night.
- ✓ The current seasonal car rental business shall turn into a flexible year-round stationary vehicle sharing business.
- ✓ Electric cars, bikes and scooters shall be available at various stations across the entire island.

- ✓ All mobility needs shall be fully covered with smart mobility: from the daily trip to work or school, to family outings and shopping trips, even to evenings out at restaurants and bars. Tourists would be able to discover the island on demand and will commute back to their hotel at night safely and flexibly.
- ✓ Any and every trip would be booked simply and quickly at any time using a mobility app.

Result

Positive effects on local carbon emission footprint and overall quality of life. This will make the island not only more livable, but also significantly more attractive for the booming sustainable tourism industry and the local economy.

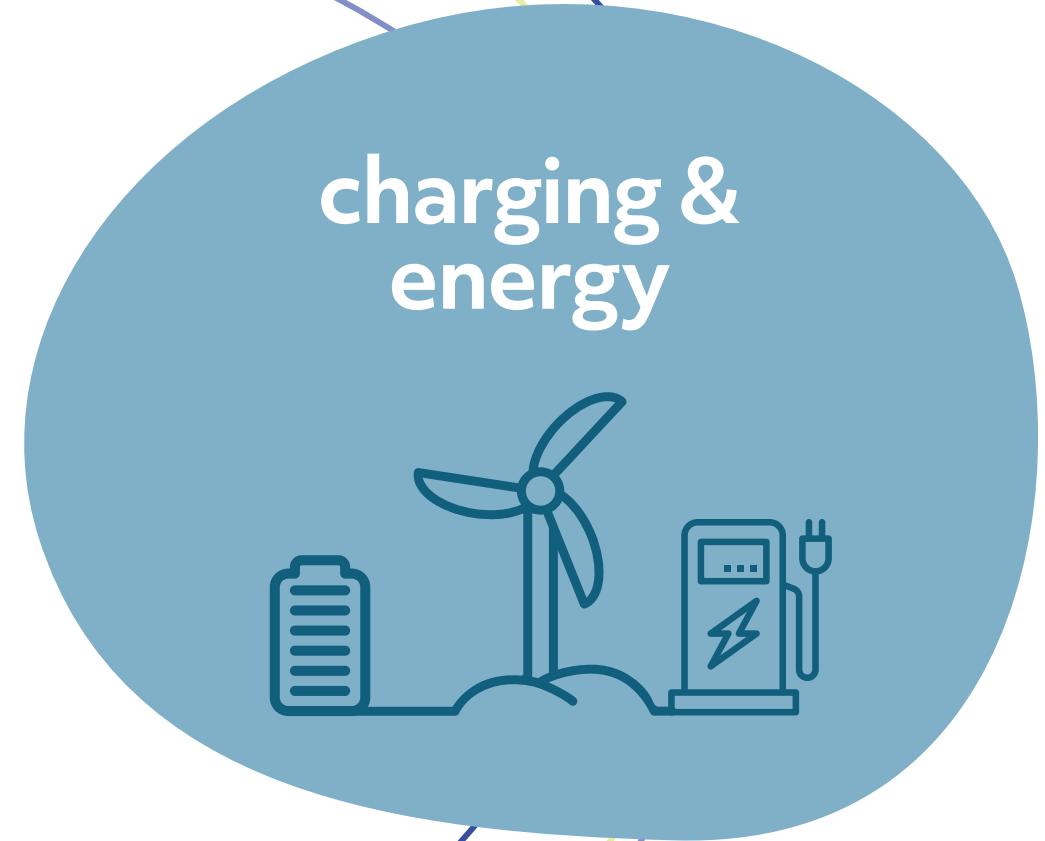


Charging & energy

- ✓ The basis for sustainable and connected mobility is a smart charging infrastructure, supplied with renewable energy.
- ✓ Wide charging infrastructure network will be implemented.
- ✓ Charging infrastructure shall consist of private and semi-public charging points, that shall mainly be installed at private residences, car rental agencies, taxi businesses and vehicle sharing stations.

- ✓ Ensuring flexible operations of the planned ridesharing service, fast-charging infrastructure shall also be implemented.
- ✓ Public charging stations scattered across the island shall complete the network, making charging possible everywhere, including at beach spots.





Charging & energy

- ✓ The island of Astypalea possesses a significant and untapped green energy potential.
- ✓ Substantially increase the use of solar and wind energy, in order to cut existing dependence on fossil fuels, increase self-reliance and drastically reduce CO2 emissions.
- ✓ Ensure that the majority of the electricity needs on the island shall be covered by renewable energy sources,
- ✓ Install the necessary hybrid power system.
- ✓ The additional electricity demand, due to the introduction of e-mobility, shall be exclusively covered by renewable energy sources.





conditional
autonomous
driving



In addition the Hellenic Republic will ensure quality road infrastructure, excellent signage and sufficient data on traffic and weather conditions in order to ensure safe, clean and inclusive mode of transfers that will eventually lead to autonomous driving.



Autonomous driving

Indicative milestones





Thank
you!