



# CirCIE 2019

**Challenges  
for the Islands  
in the era of  
the Circular Economy**

***Kick-starting the Greek e-Mobility market***

*Konstantinos Magkaniotis*

*Hellenic Distribution Network Operator*

Under the auspices of



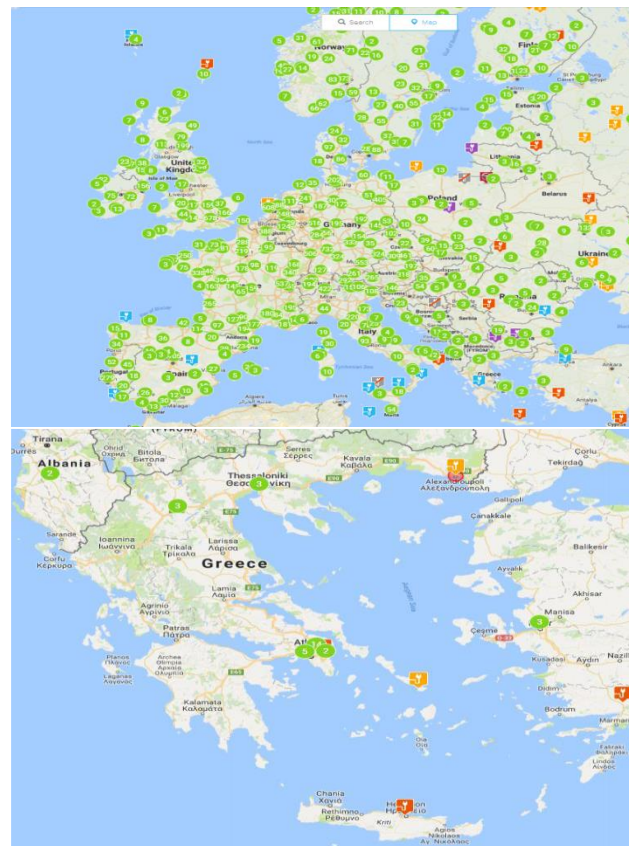
# SMile 2019

**6th Sustainable Mobility  
& Intelligent Transport  
conference**

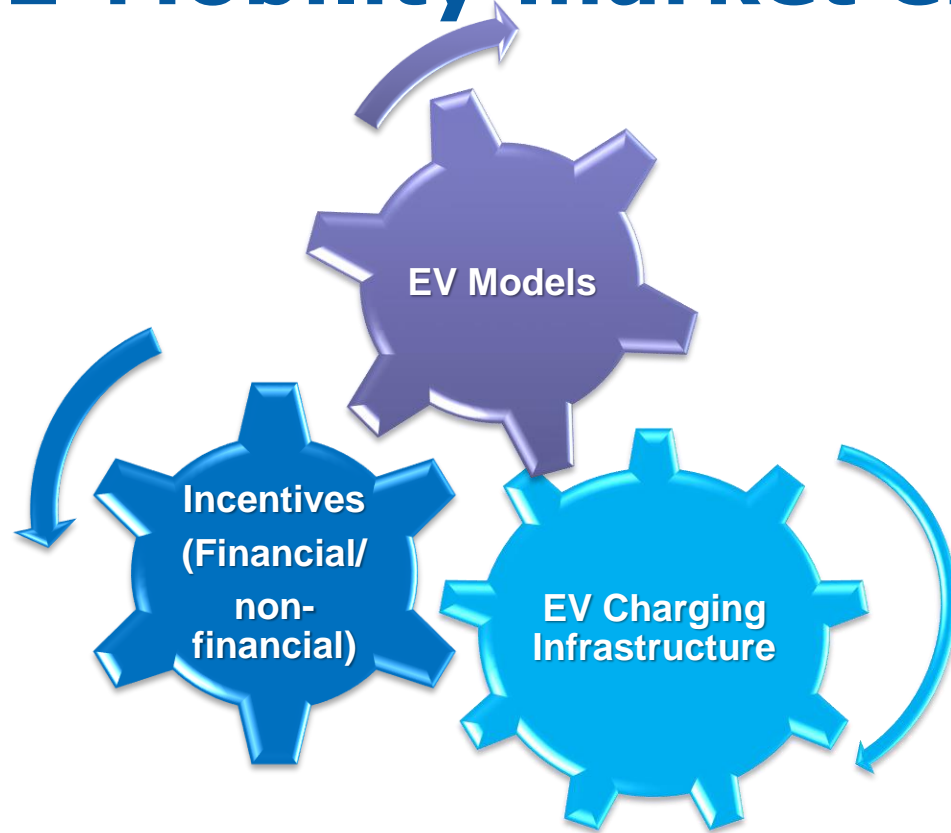


# E-mobility in Greece

- Public accessible EVSEs < 65
  - only in privately owned areas  
source <https://chargemap.com/map#>
  - **Charging anxiety**
- 2017: 163 EVs registered
  - Yearly increase 246%
  - 0.2% market share
  - **EV charging infrastructures not attractive for investment**
- 2014/94/EC: Each MS shall have a sufficient public network



# E-Mobility market enablers



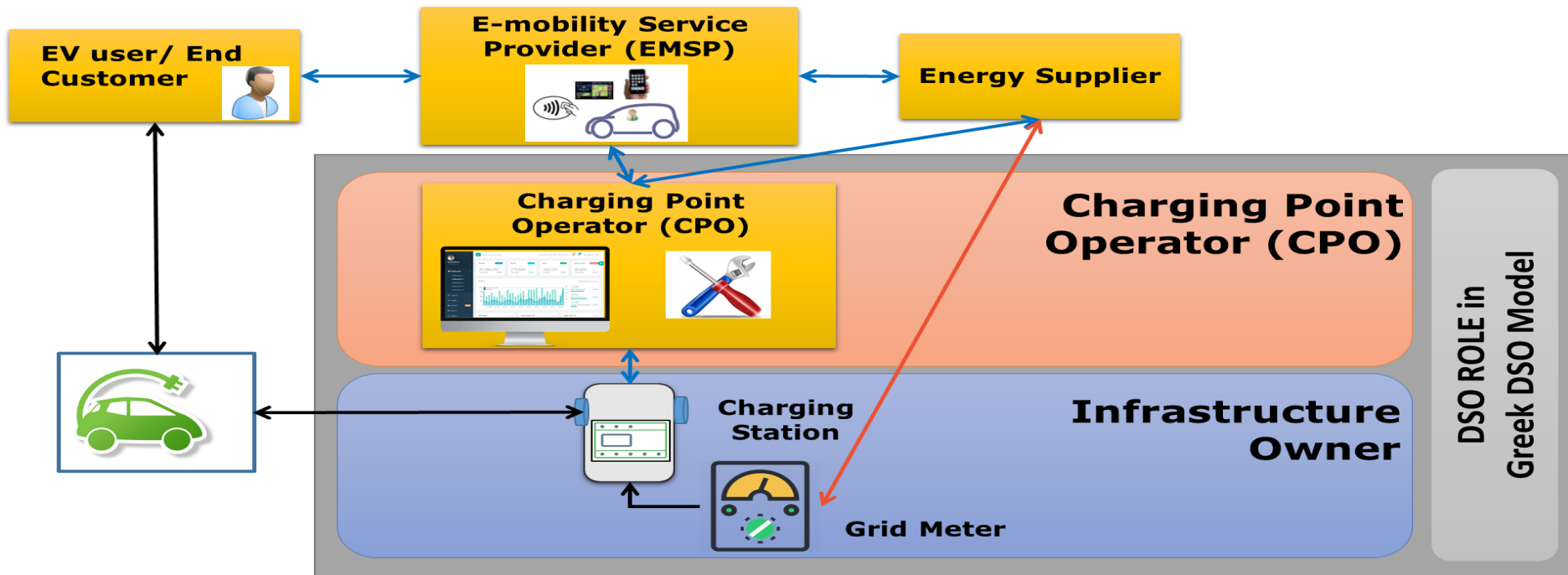
## **Goal: Kick-start the EV market**

- Create EV charging infrastructure
  - On publicly-owned, public-accessible space
- Remove charging anxiety
- Create an open e-mobility market

## **HEDNO benefits**

- Study the effects of EV charging on the Hellenic distribution network
- Prepare HEDNO for upcoming technical and regulatory issues:

# Proposed "DSO Model"



# EVSE Infrastructure: Plan

## Phase A Pilot

### EV Charging Points:

- 100-150 Mode 3 2x22kW

Islands  
1M€



Implementation: 2019

## Phase B - Implementation

### EV Charging Points:

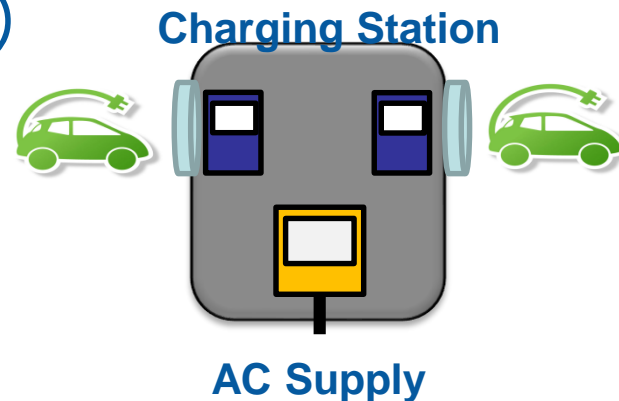
- 1420 Mode 3 2x22kW
- 80 Mode 4 DC 50kW

Mainland



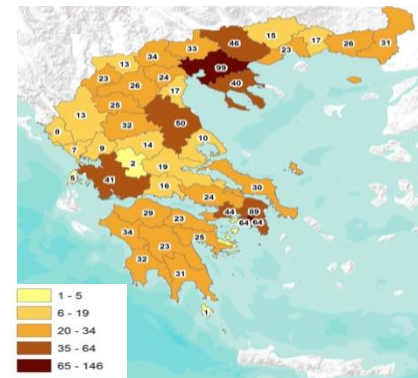
Implementation: 2019-2020

- RAE approved the pilot (Islands)
- Public consultation (specs)
  - 23.01.2018 – 23.02.2018
  - Participation of 8 companies
- Public Tender
  - appeal of a participant at the Council of State (ΣΤΕ)
- Specification at a glance
  - Mode 3 AC, 2x22kW (3P), Type 2
  - OCPP 1.6
  - EN/IEC 61851:2017



# Spatial Planning

- Phase A, islands
  - Based on population and size
  - In collaboration with municipalities
- Quantification of **minimum** required infrastructures–10.2018
  - to enable market to evolve
  - Number of EVSE per municipality
- Focus:
  - AC Mode 3 – urban connectivity
  - DC Mode 4 – suburban connectivity





# Thank you for your attention!



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*Sub- Head of Meterina Svstems*



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