

INCIT-EV

LARGE DEMONSTRATION OF USER CENTRIC URBAN AND LONG-RANGE CHARGING SOLUTIONS TO BOOST AN ENGAGING DEPLOYMENT OF ELECTRIC VEHICLES IN EUROPE

Electrification of transportation at city level

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FG4: Smart cities, smart grids and digitalization: modelling insights and lessons learned

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Large demonstration user Centric
urban and long-range charging solutions
to boost an engaging deployment
of Electric Vehicles in Europe

The project aims to demonstrate an **innovative set of charging infrastructures, technologies and business models**, ready to **improve the EV users experience** beyond early adopters, thus, **fostering the EV market share** in the EU.

- Horizon 2020 Project
- 4 years (2020-2024)
- Consortium of 33 partners, from 8 countries (coordination: Renault Group)
- 5 demonstration environments with the deployment of 7 use cases

GROUPE RENAULT

Atos

AVERE
FRANCE

Zaragoza

Bitbrain



COLAS
WE OPEN THE WAY

VILLE DE PARIS

CITTA' DI TORINO

Eesti Energia

ELES

enedis

EUROVIA
VINCI

EVBOX

VEDECOM
INSTITUTE OF VEHICLE OPERATORS OF
TECHNOLOGY TO BE IN MOTION

LINKS
CSMB IRII

FPT
POWERTRAIN TECHNOLOGIES

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AND CONSUMPTION

GreenFlux

idneo
we design your dreams

tria
RESEARCH & DEVELOPMENT

IFSTAR

PSA
GROUPE

QiEurope
Technology to Market

RED
ELECTRICA
DE ESPAÑA

STADTWERKE
NORDERNEY

University of Ljubljana
Faculty of Electrical Engineering

WE DRIVE SOLAR

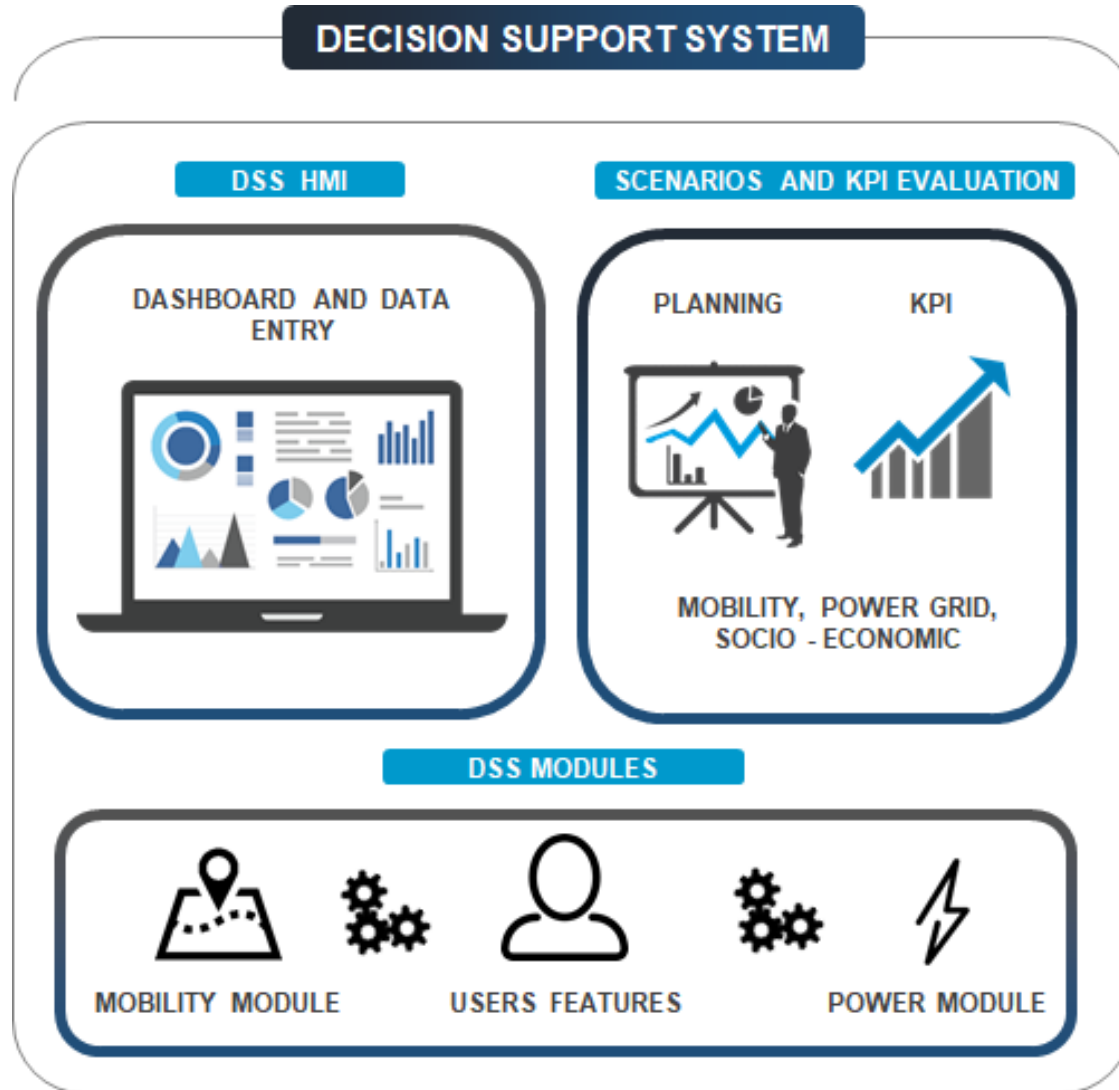


iren
luce gas e servizi

Prima Electro
electronics and laser technologies

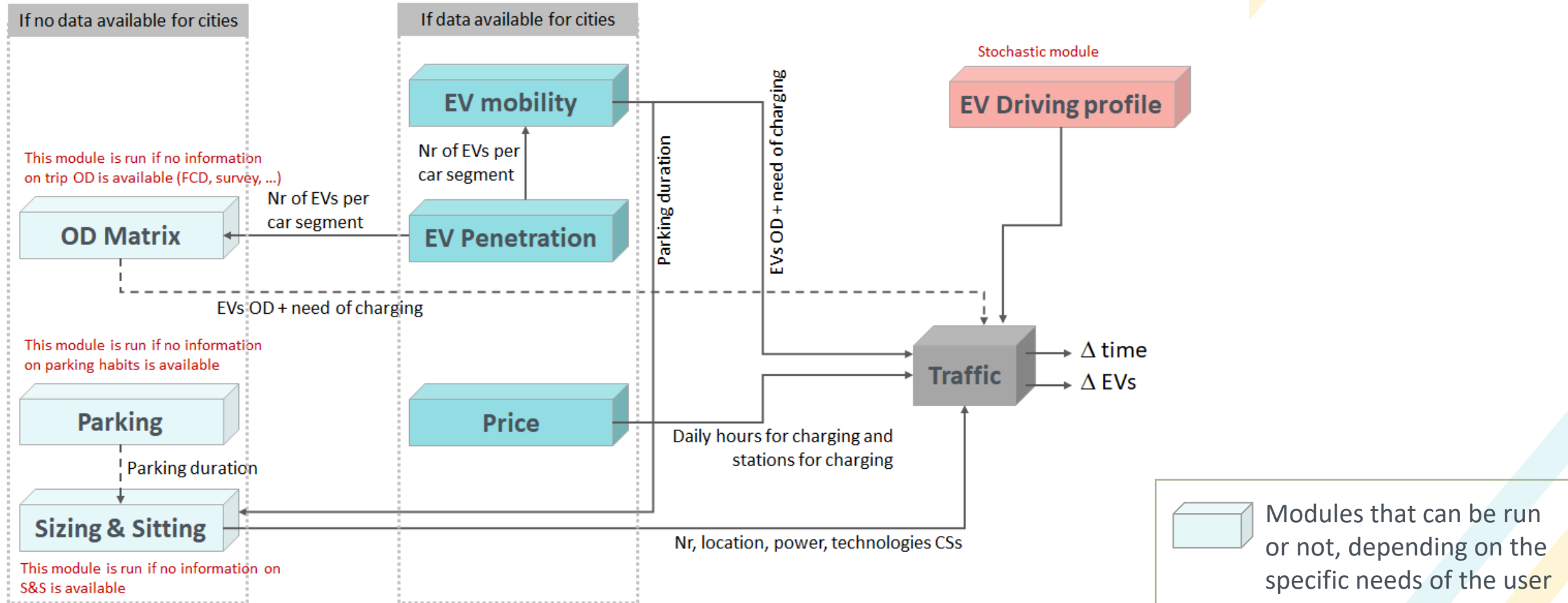
FPT
POWERTRAIN TECHNOLOGIES

MRA
elektrisch



To develop a Decision Support System (DSS) to support Mobility planners and Policy makers in the development of specific action plans to boost the penetration of electric vehicles in their area, through the deployment of user-centric charging infrastructure

- **User Behaviour Module:** it models **mobility habits of drivers** (how much they travel along the day, how much time they spend with the car parked, when they decide to recharge vehicles, ...)
- **Charging Infrastructure Module:** it provides data about the **existing charging infrastructure** and provides information about the **best locations** for new charging infrastructures
- **Mobility Module:** it aims to minimise the **service time for each user**, that is the time spent by the user to recharge the vehicle (detour time, queue time charging time). The second goal is to **avoid congestions** on the road network as a result of the detours of trips
- **Power Module:** it supports in understanding **grid-related requirements**, restrictions, potentials and costs when considering setting up additional and/or new charging infrastructures



If non all the input data required are available it will be possible using a «city archetype» or estimating them using specific modules included in the DSS



Thanks for your attention!



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