

# EuropeOn

ELECTRICAL CONTRACTORS ASSOCIATION

## Annual Conference – 18 November 2020



# Welcome to our Annual Conference!

**Morning session:** *from 10 AM to 11:30 AM CET*

*Welcoming words from EuropeOn President Gérard Constantin*

**Renovating with Skill: switching on the Renovation Wave thanks to a modern electrical trade**

**Alison Crabb** (DG EMPL)

**Stefan Moser** (DG ENER)

**Pernille Weiss** (MEP)

**Aurélie Beauvais** (SolarPower Europe)

**Martin Bailey** (EuropeOn)

**Afternoon session:** *from 1:30 PM to 3:00 PM CET*

*Welcoming words from EuropeOn President Gérard Constantin*

**Consumer empowerment in the shift to zero-emission mobility: lessons learnt from the ground**

**Dario Dubolino** (DG MOVE)

**Ismail Ertug** (MEP)

**Alexander Neuhäuser** (ZVEH, EuropeOn)

**Olivier Toggenburger** (Park'n Plug)

**Julia Poliscanova** (Transport&Environment)

**Casto Cañavate** (KNX)

*Each of the 2 sessions will be followed by a Q & A time*



Renovating with Skill: switching on the Renovation Wave  
thanks to a modern electrical trade

# Welcoming words

-

Gérard Constantin,  
President of EuropeOn



# Welcoming words from Gérard Constantin, EuropeOn President

**300.000** BUSINESSES

**#Skills4Climate**

**1.8 MILLION** PROFESSIONALS

**€ 200 BILLION** ANNUAL TURNOVER



EuropeOn Annual Conference

**KNX**  
Media Partner





# Welcoming words from Gérard Constantin, EuropeOn President

## EuropeOn and e-mobility

Have a look at...

- [Our report on e-mobility and job potential](#): by 2030, over 112.000 net jobs related to e-mobility can be created in our sector.
- [Our 4 key recommendations on e-mobility](#): we released these ahead of the upcoming publication of the EU Sustainable Mobility Strategy.



# Welcome to our Annual Conference!

**Afternoon session:** *from 1:30 PM to 3:00 PM CET*

*Welcoming words from EuropeOn President Gérard Constantin*

## **Consumer empowerment in the shift to zero-emission mobility: lessons learnt from the ground**

**Dario Dubolino** (DG MOVE): State of play of AFID revision, upcoming Strategy, and charge point rollout across EU

**Ismail Ertug** (MEP): Constituents' expectations from EU mobility policy and how can e-mobility answer those needs

**Alexander Neuhäuser** (ZVEH, EuropeOn): Electromobility - opportunities and contribution of the electrical contractors

**Olivier Toggenburger** (Park'n Plug): Challenges and solutions to engage consumers in the energy transition through e-mobility and self-consumption

**Julia Poliscanova** (Transport&Environment): How can EU policies ensure a smooth transition (for consumers) towards zero-emission mobility

**Casto Cañavate** (KNX): Bridging the gap between smart buildings and e-mobility

*The session will be followed by a Q & A time*

# Afternoon session (1:30-3:00 PM CET)

## Consumer empowerment in the shift to zero-emission mobility: lessons learnt from the ground

### A few reminders before starting

Once all of our distinguished panellists will have presented their views on this session, we will open the floor to all attendees for questions.

You can ask your questions whenever you want in the QUESTIONS Box (on the right side) and we will come back to them in the last 30 minutes of this Conference.

Thank you for being with us today, for EuropeOn's first ever online Conference



Renovating with Skill: switching on the Renovation Wave  
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State of play of AFID  
revision, upcoming  
Strategy, and charge  
point rollout across EU

-  
Dario Dubolino, Policy  
Officer at DG MOVE







# Zero-emission mobility

Update on key EU policies and initiatives

*EuropeOn Conference, 18/11/2020*

# Vision for decarbonised transport

- **European Green Deal:** Europe to become carbon neutral by 2050
- **Climate Target Plan:** 55% emission reductions by 2030
- This requires emission reductions in all sectors
- **Transport emissions must decrease by 90% by 2050** to meet the Green Deal objectives



# Sustainable Mobility in the Green Deal

The Green Deal Communication calls for a shift to sustainable and smart mobility:

- **Multimodality:** improve public transport, shift freight from road to rail and inland waterways
- **Automated and connected multi-modal mobility:** new sustainable mobility services to reduce congestion and pollution
- **Transport prices must reflect its impact** on the environment and on health
- **Faster deployment of clean vehicles and alternative fuels**





# Sustainable mobility by transport mode

- All transport sectors – road, rail, aviation and waterborne transport – will have to contribute to the effort to reduce emissions
- **Road:** conventional cars will need to gradually be displaced by zero emissions vehicles
- **Aviation and maritime:**
  - Improve the efficiency of aircraft, ships and their operations
  - Increase the use of sustainably produced renewable and low-carbon fuels

# Driving the decarbonisation of road transport

- CO2 emission performance standards for light- and heavy-duty vehicles
- Air pollutant standards for internal combustion engines
- Clean Vehicles Directive
- Alternative Fuels Infrastructure Directive



# Alternative Fuels Infrastructure Directive

**EU needs an infrastructure that:**

- ✓ **enables consumers** to recharge or refuel their vehicles **as easily as a conventional vehicle**;
- ✓ ensures **inter-operability** of infrastructures and services;
- ✓ handles **increased user demand**.





# AFID evaluation – State of play

- Report on application of the Directive, state of play of market and Member States' efforts – due by 18 November 2020
- Evaluation of the Directive ongoing
- Some of the key needs and shortcomings identified up to now:
  - Readiness to respond to substantially higher demand
  - Minimum requirements for infrastructure deployment
  - Customer services
  - Specific needs of heavy-duty vehicles



# AFID revision – State of play

- Impact Assessment started, back to back with evaluation
- OPC closed; proposal due 2021
- Key objectives – Inception IA (published)
  - increase the number of recharging and refuelling points across Member States and across modes
  - ensure the full interoperability of infrastructure and infrastructure use services for all alternatively fuelled vehicles, vessels and aircraft
  - foresee adequate information for consumers, including information on location, accessibility, prices, payments and compatibility of fuels and recharging infrastructure
  - enable deployment of “smart recharging infrastructure”



# Next steps

## **2020:**

- **Sustainable and Smart Mobility Strategy**
- **ReFuelEU Aviation – Sustainable Aviation Fuels initiative**
- **FuelEU Maritime – Green European Maritime Space**

## **2021:**

- **Proposal for Revision of the Alternative Fuels Infrastructure Directive**
- **Proposal for Revision of the TEN-T Regulation**
- **Proposal for more ambitious CO2 emission performance standards**
- **Proposal for more stringent air pollutant standards for road vehicles**
- **Proposal for Revision of the Renewable Energy Directive**



# Thank you for your attention

*Dario Dubolino*

*Directorate General for Mobility and Transport*

*Unit B.4 Sustainable and Intelligent Transport*



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# Constituents' expectations from EU mobility policy

- Ismail Ertug, Member of the European Parliament

Renovating with Skill: switching on the Renovation Wave thanks to a modern electrical trade





Renovating with Skill: switching on the Renovation Wave  
thanks to a modern electrical trade

# Electromobility – opportunities and contribution of the electrical contractors

**Alexander Neuhäuser,**  
EuropeOn member, Deputy  
Managing Director of ZVEH





# E-Mobility

Opportunities and contribution of electrical contractors



# Energy Transition

- Stopping Climate Change:
  - ➔ requires Energy Transition,
  - ➔ requires Renewables,
  - ➔ renewable production is mainly electricity



- But...
  - ➔ production potential is limited.
  - ➔ production is volatile.
  - ➔ electricity is difficult to store.
- Therefore we need...
  - ➔ to manage electricity
  - ➔ to find storage possibilities
  - ➔ to increase EFFICIENCY!!!!

# Sector Coupling

- **Sector Coupling:** connecting the building sector and the mobility sector.
  - ➔ (decentralized) renewable production to be used in car batteries
  - ➔ Car batteries will provide Vehicle to Grid (V2G) services.
  - ➔ Vehicle to Building (V2B) services: battery can be used for local EMS („multiple use“)



# Prosumer

- **Prosumer Models:** building owner as producer and consumer
  - ➔ Selling locally produced renewable energy to the market.
  - ➔ Selling energy management potential (grid and energy market).
  - ➔ Social implications: citizens able to participate in the Energy Transition.



# Added Value Chances for SMEs

- Electromobility has the potential to boost the European economy
  - Installation is a growing market
    - 2019: around 185,000 public charge points\*
    - 2025: around 1,3 million needed\*
    - 2030: around 3,0 million needed\*
    - high demand for private charging
  - high value-added services, e.g. energy management service, Maintenance and other After Sales Services
- Electromobility will create highly qualified jobs\*\*
- Electromobility will boost innovation.



\*Source: <https://www.transportenvironment.org/publications/recharge-eu-how-many-charge-points-will-eu-countries-need-2030>

\*\* 200.000 until 2030 according to [EuropeOn Survey](#)



# A word about: Hydrogen Strategy

- Hydrogen will play an important role in the European energy supply.
- Electrical contractors provide services for the industry (~34 % of the turnover in Germany).
- H2 sector will be an interesting customer for our companies.

BUT...

- H2 has to be GREEN
- GREEN H2 will be limited.

THIS MEANS...

- H2 is precious and therefore does not make sense everywhere
  - Efficiency matters: double primary energy requirement for cars\*
  - Price matters
- Energy Transition is not allowed to wait for H2

\*Source: <https://www.volkswagenag.com/de/news/stories/2019/08/hydrogen-or-battery--that-is-the-question.html#>

# What we need

## ■ European Charging Infrastructure

- ➔ close-knit coverage of public charging points with easy roaming and payment.
- ➔ promotion of private charging points.

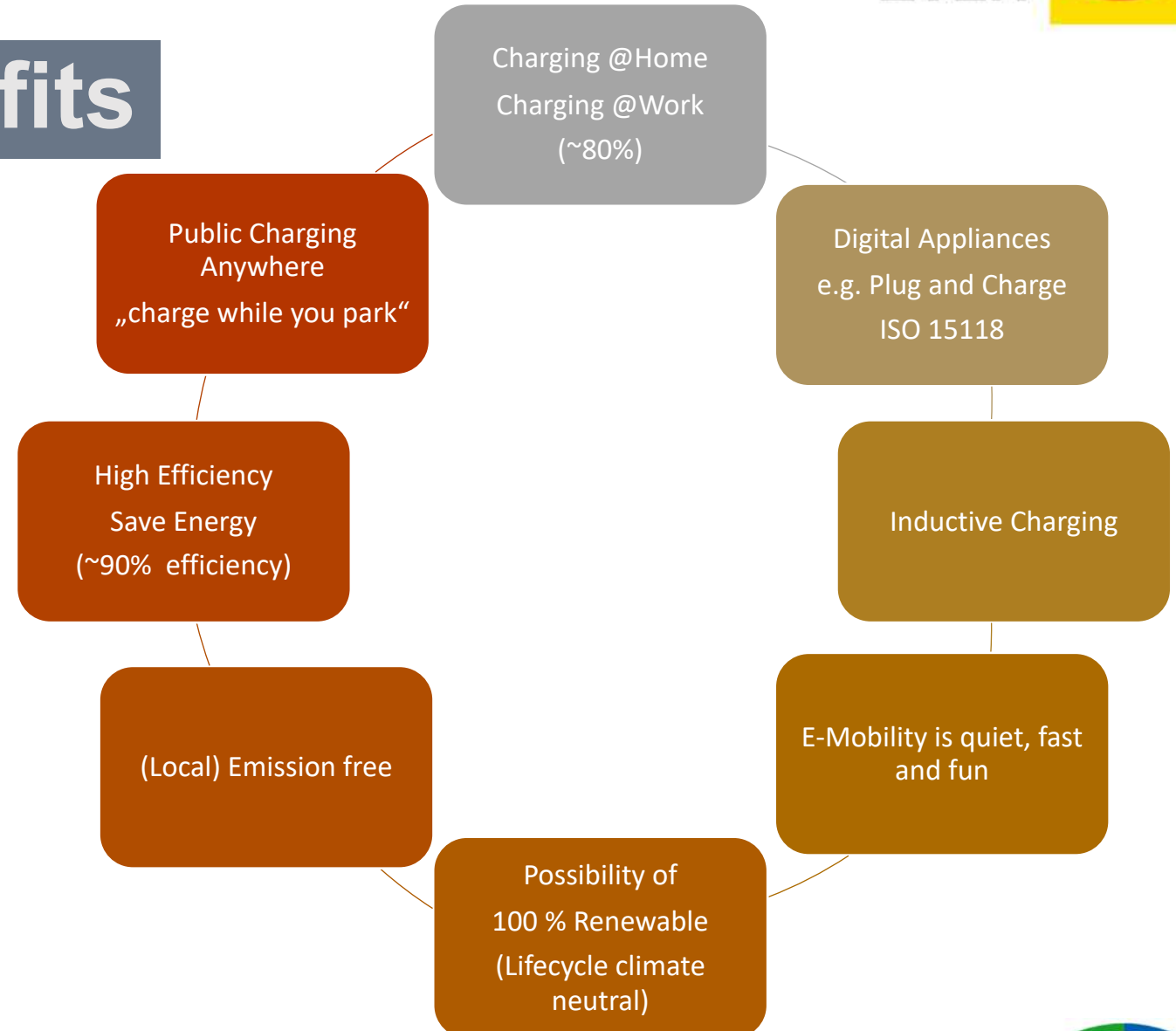
## ■ Accelerate expansion of Renewable Energy

- ➔ green mobility needs green energy.
- ➔ green energy is mainly electricity coming from renewable sources.

## ■ Preserve the Efficiency First Principle

- ➔ H2 is not a solution for any transport application

# Additional Key Benefits



ZVEH



Let's go ahead



# Alexander Neuhäuser, Attorney

## Deputy Managing Director

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60487 Frankfurt am Main

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# Challenges & solutions to engage consumers in the transition through e-mobility & self-consumption

-  
**Olivier Toggenburger,**  
Business Developer at  
Park'n Plug

Renovating with Skill: switching on the Renovation Wave  
thanks to a modern electrical trade



# EuropeOn Annual Conference

**Challenges & solutions to engage consumers in the energy transition through e-mobility and self-consumption**

**Consumer empowerment in the shift to zero-emission mobility: lessons learnt from the ground**





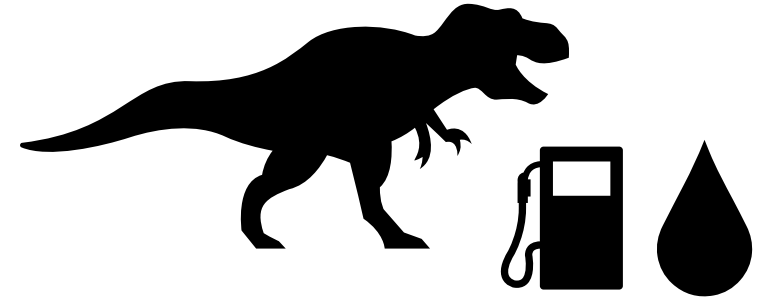
A **strong** symbol !





# Challenges

How to engage consumers ?



- The dinosaur footprint of fossil energy in the world
- Political, technological and economical challenges to identify
- Overall societal and cultural barriers to consider
- How to make a whole population or society switch to a new environment ?
- How to build new value chains in line with the development of e-mobility ?

# Solutions

## Keys to the successful introduction of EVs



- **Political actions** : Regulation and incentives in France
- **Technological progress** : Battery technology to enhance the ability to store and use energy locally, smart charging, V2G
- **Market development** : Satisfying the consumer demand with a diversified offer of EVs and charging solutions
- **The very important role of public and private organizations like AVEPE**

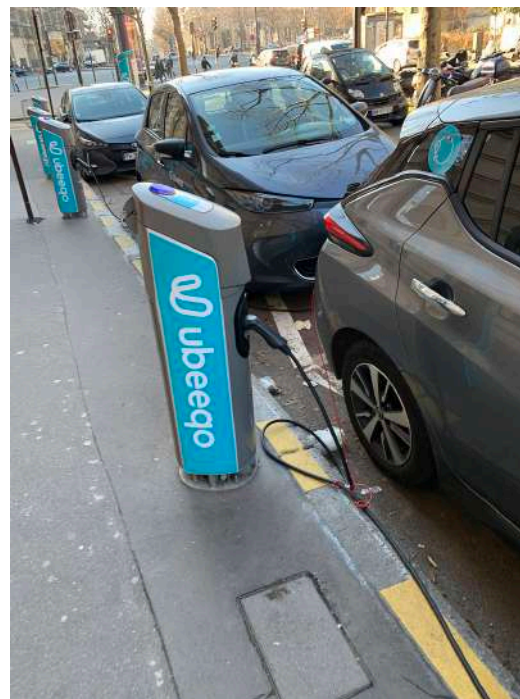
# Solutions

## Keys to the successful introduction of EVs

### Political : Regulation and incentives in France



CRIT'Air



Public charging infrastructures UBEEQO in Paris



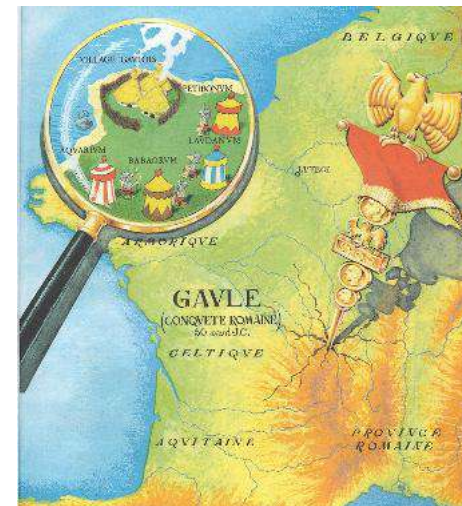
EDF new electric fleet

# Solutions

## Keys to the successful introduction of EVs

### Park'n Plug : Zoom on our activity

- Park'n Plug is a French leader in the installation and management of charging infrastructures in France since 2011
- 10 years activity which highlights the possibility of a successful introduction of e-mobility in France
- Our activity and key projects we participate in with public organizations like Enedis and ADEME are proof of success -> what were the keys ingredients that led to the success of these projects?





# Solutions

Keys to the successful introduction of EVs



Case of BienVEnu : -> what were the keys ingredients that led to the success of these projects ?



**ENEDIS**  
L'ELECTRICITE EN RESEAU

**ADEME**



Agence de l'Environnement  
et de la Maîtrise de l'Energie



CentraleSupélec

Participation of public organisations  
and French universities



Cooperation in research and development



Definition of new offers for users to give birth  
new markets

**WAVESTONE**



Media and analysis of user experience as part of  
the projet

# Thank you !

**How can EU policies ensure a smooth transition (for consumers) towards zero-emission mobility**

**Julia Poliscanova,  
Senior Director at T&E**

**Renovating with Skill: switching on the Renovation Wave  
thanks to a modern electrical trade**



# Smooth transition to e-mobility for all



**Julia Poliscanova,**  
**Senior Director for Vehicles & Emobility, T&E**



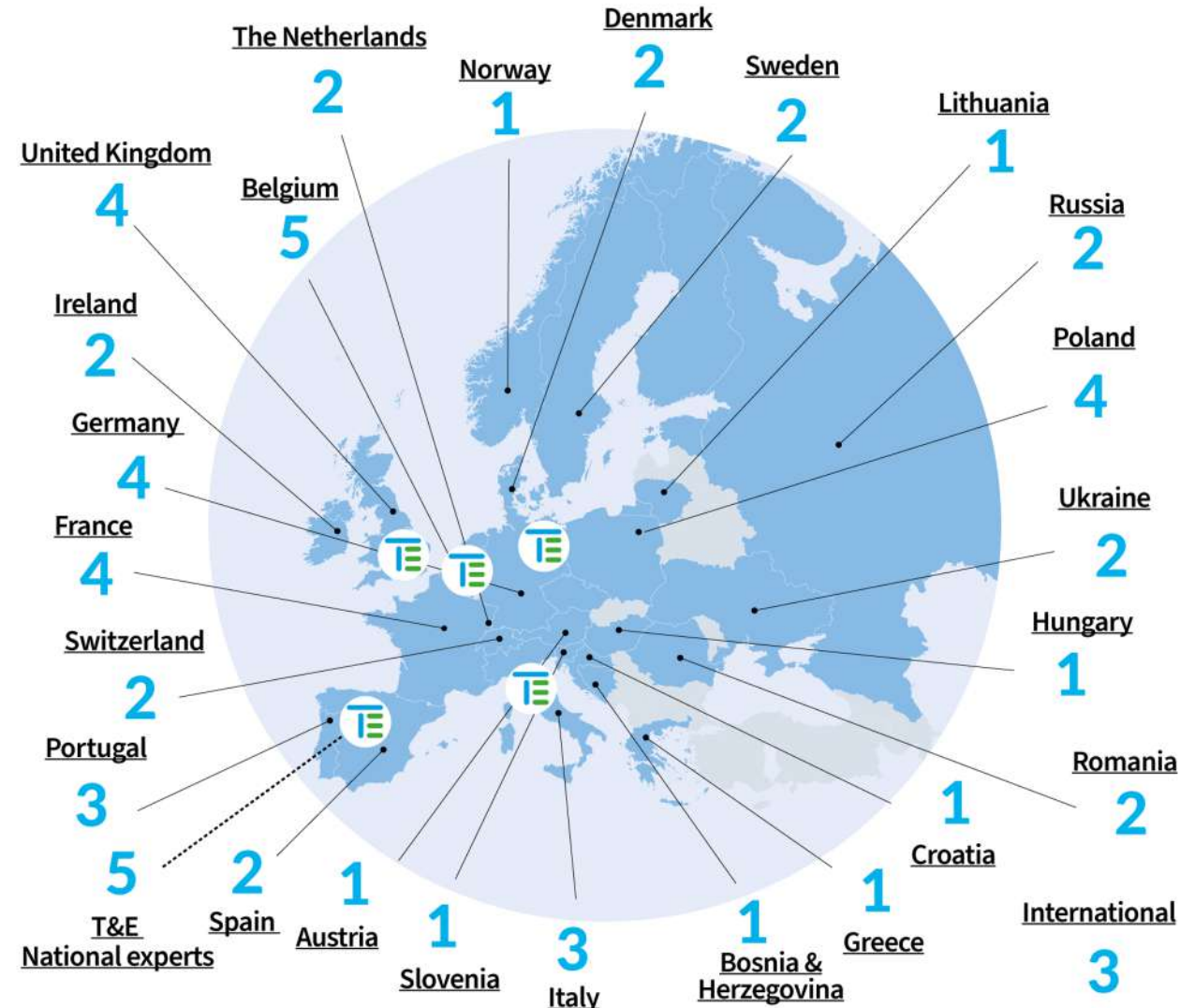
# T&E: WHO WE ARE

Europe's leading clean transport campaign group

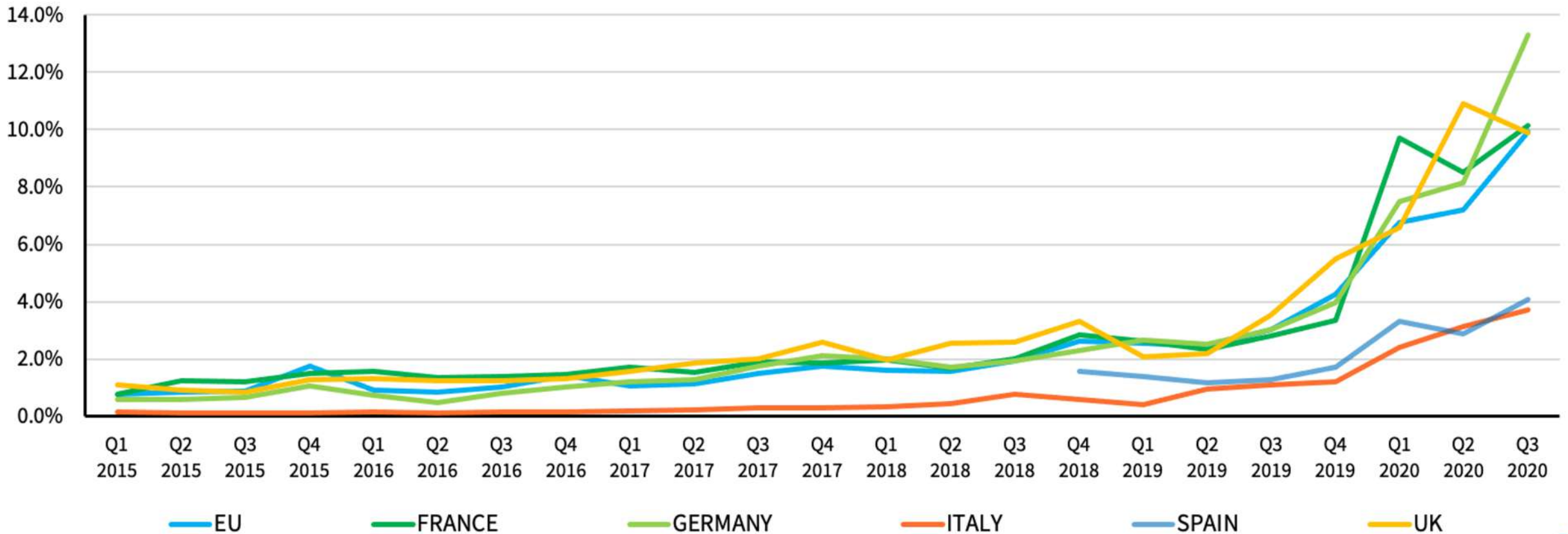
26 Countries

61 Members

6 National experts














# Soaring electric car sales thanks to 2020/21 car CO2 standards

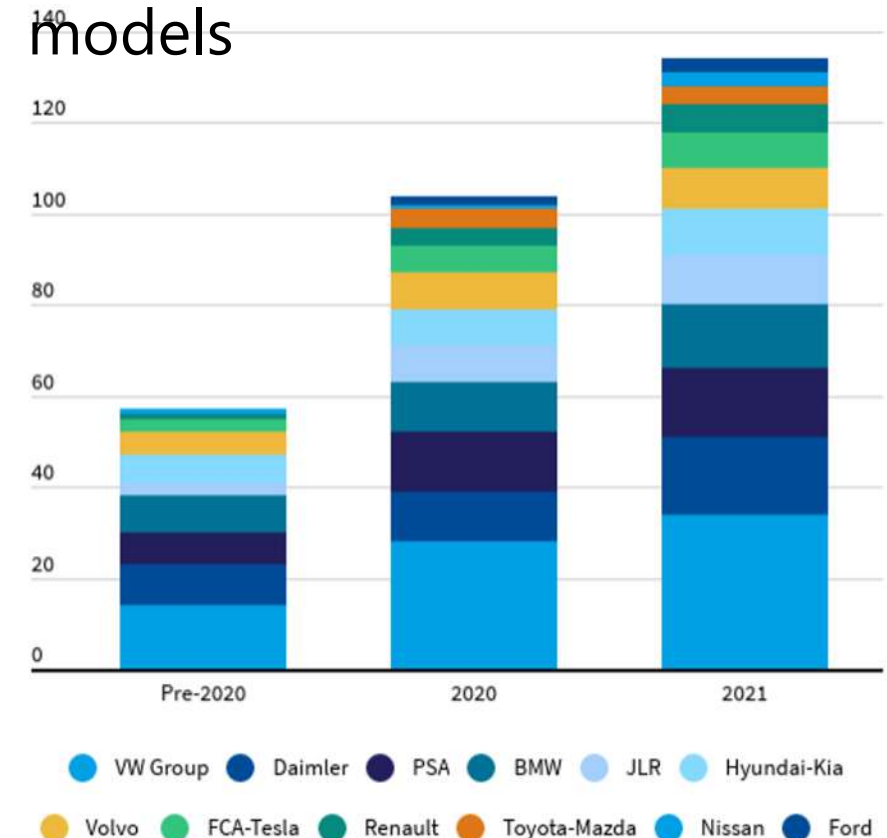


# More and better electric models for consumers

Battery electric car models only

| Carmakers   | Pre-2020 models                          | H1 2020                              | H2 2020                   | 2021                              |
|---|--|--------------------------------------|---------------------------|-----------------------------------|
|    | Ampera-e, C-zero, iOn                    | e208, e2008, Corsa-e, DS 3 Crossback | e-C4                      | Mokka-e                           |
|    |  |                                      | XC 40, Polestar 2         |                                   |
|    | Model 3, S, and X                        |                                      | 500e                      | Model Y                           |
|    | i3                                       | Mini                                 |                           | iX3, iNext, i4                    |
|    | Zoe                                      |                                      | Twingo                    | Dacia EV                          |
|    |  |                                      | MX-30, Lexus UX           |                                   |
|    | Leaf                                     |                                      |                           | Ariya                             |
|    |  |                                      |                           | Mach-E                            |
|  | Ioniq, Kona, e-Soul, e-Niro              |                                      |                           |                                   |
|  | eGolf, e-tron, Taycan, Mii, Citigo, eUp! | e-tron Sportback                     | ID.3, ID.4, Cupra el-Born | Enyaq, ID.5, e-tron GT, Q4 e-tron |
|  | I-Pace                                   |                                      |                           | XJ, J-Pace                        |
| DAIMLER   | EQ C, Fortwo, Forfour                    |                                      |                           | EQ A, EQ B, EQ S, EQ E            |

Total number of electric car models



# BUT: electric momentum risks stagnating after 2021

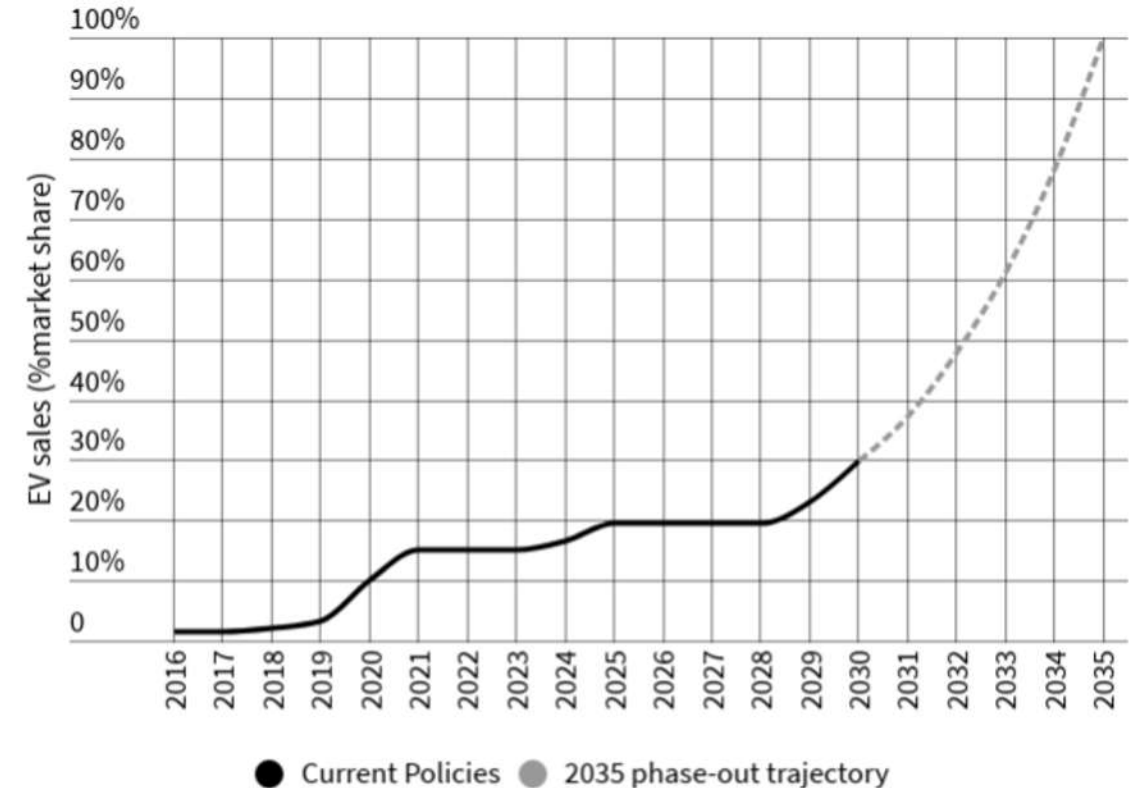
> EV sales trebling from 3% to 10% in 2020

>> Further surge to 15% in 2021

>>> Sluggish growth to a mere 20% EV sales in 2025 on current regulation



Almost no progress in 2020s without higher CO2 targets from 2025 onwards

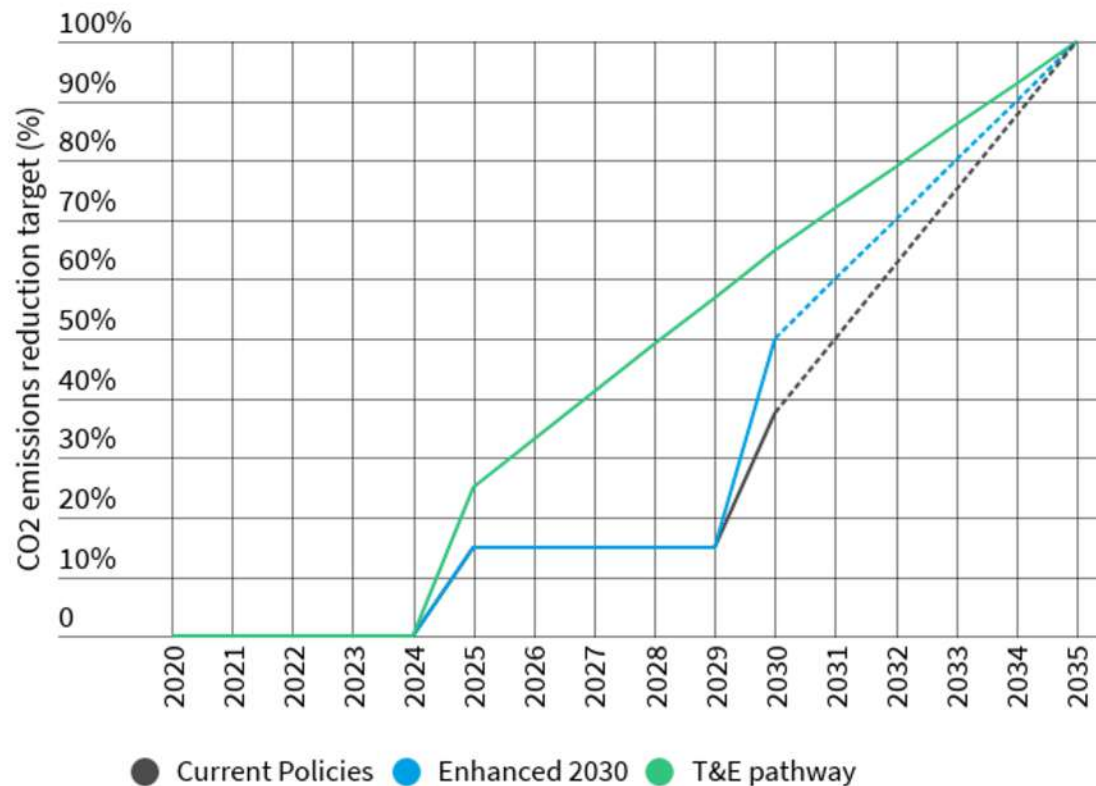


**Current Policies** trajectory is based on the current CO2 emissions reduction targets of **-15% in 2025 and -37.5% in 2030.**



# Higher ambition in 2020s for affordable EU-made EVs

## CO2 emission reduction trajectories



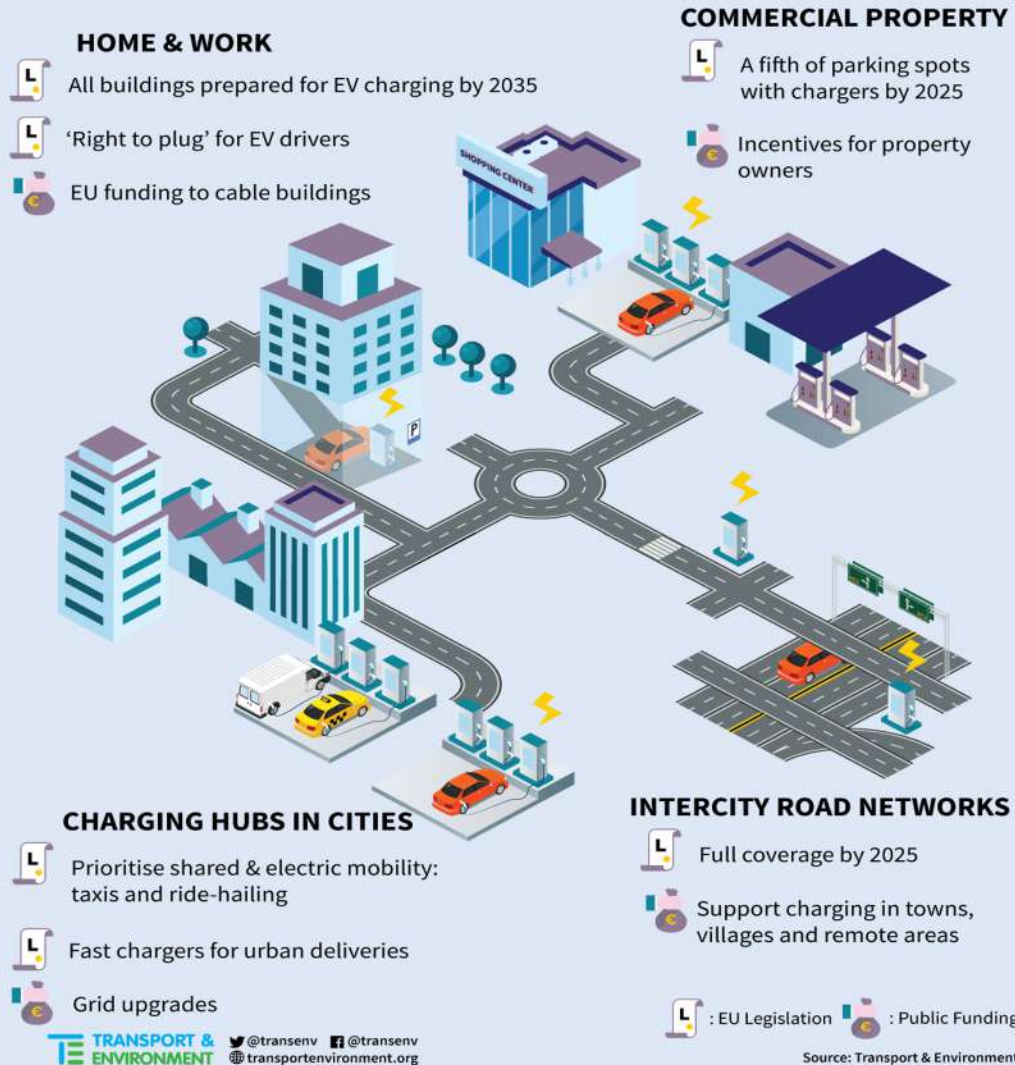
Higher 2030 target does little for EV ramp up in 2020s

T&E asks to:

- Increase 2025 target to -25% CO2 reduction
- Increase 2030 target to -65% reduction
- Set annual targets 2025-2030

# T&E's recharging masterplan for cars

smart charging available 24/7  
easy payment social fairness  
interoperable fair & transparent prices



## Alternative Fuels Infrastructure Directive to become Zero Emissions Infrastructure Regulation

Learn from past mistakes: national  
**binding targets** & uniform **Single  
Charging Market** for all Europeans to  
benefit from the EV transition

Go beyond TEN-T:

- charging in buildings (via EPBD)
- commercial properties: 1 in 5 spots by 2025
- city hubs for taxis, etc

# Charging service: put consumer needs 1st

**“Right to plug”**



**Maintenance & uptime requirements**



**Connectivity to enable free access to data**



**Smart charging & grid integration**

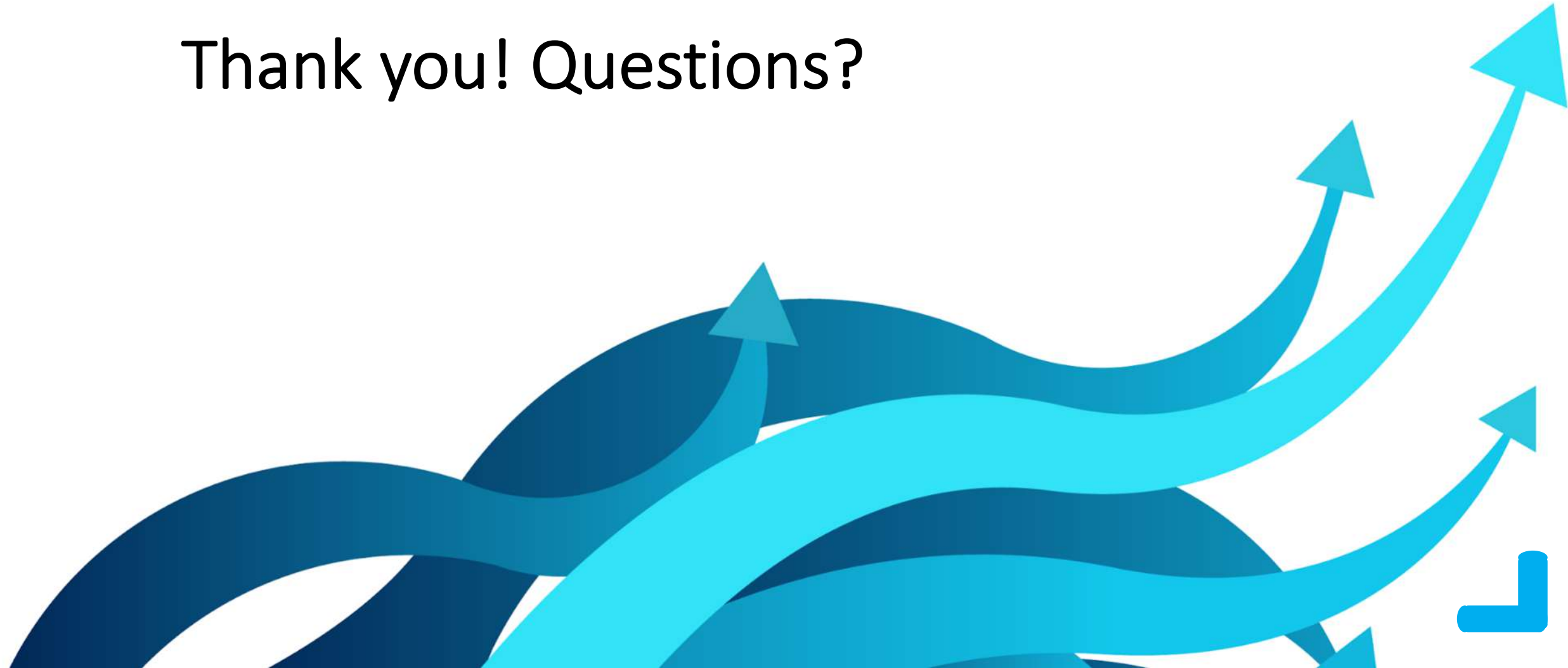
**Ad hoc payments & transparent prices in EUR/kWh & session**



**Real-time data on pricing & availability of chargers**



Thank you! Questions?





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# Bridging the gap between smart buildings & e-mobility

-  
**Casto Cañavate,**  
Marketing Director at  
KNX Association





Smart home and building solutions.  
Global. Secure. Connected.

# Bridging the gap between smart buildings and e-mobility

A look to the future of EV charging



## 3 quick facts

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**The European Commission envisions an economy which proposed an  
objective of  
net-zero emissions for transport by 2050**



## 3 quick facts

# Electro-mobility can make transport cleaner and cheaper



More than

**8,500,000**

electric cars sold worldwide

By 2030, e-mobility  
will support

**1,000,000**

more European jobs

E-mobility could help cut  
air pollution from causing

**400,000**

premature deaths

E-mobility can help Europe  
cut the nearly

**€1,000,000,000**

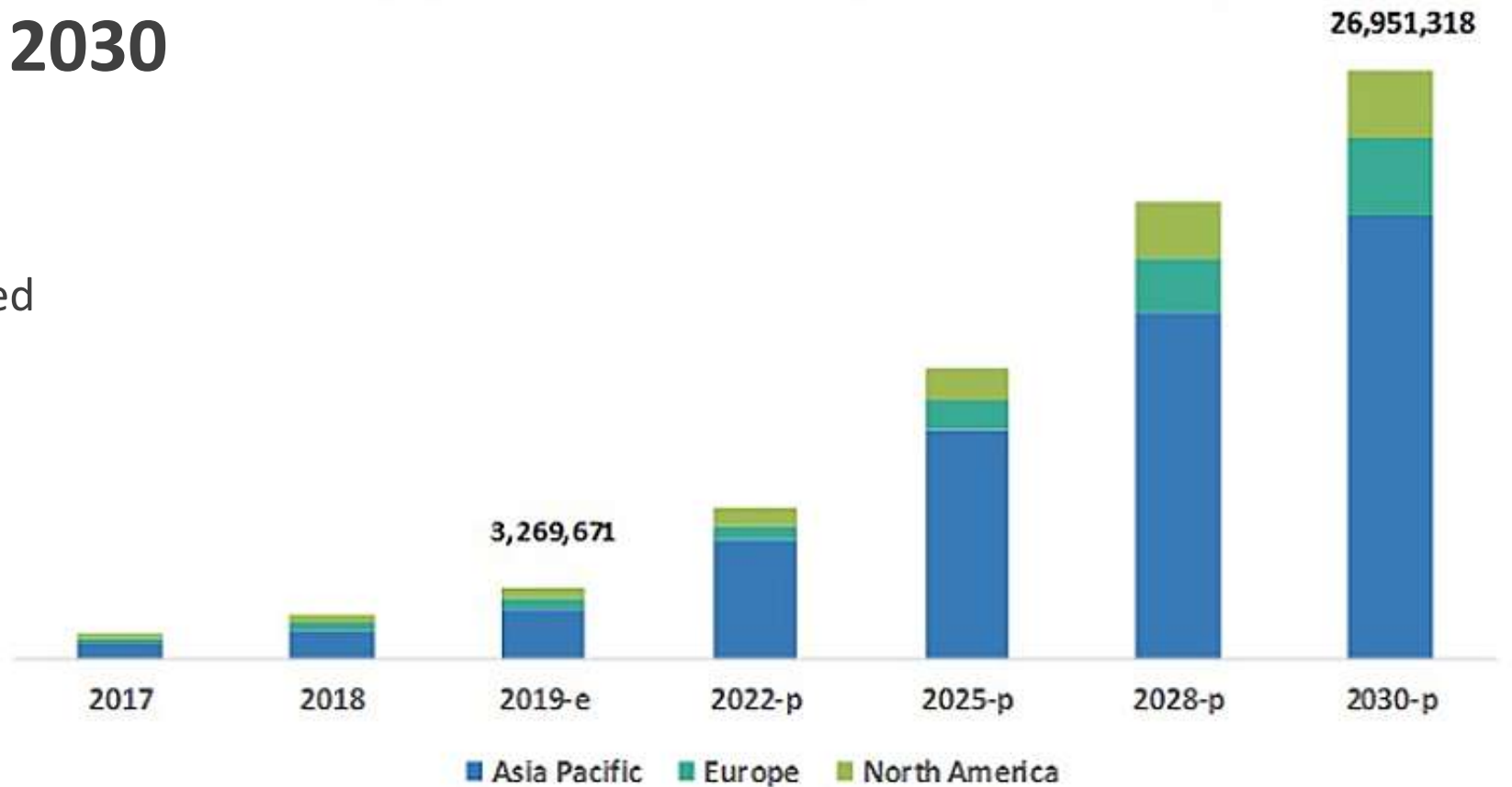
it spends on oil each day



## 3 quick facts

### EV Market growth till 2030

- 27 Mill. EV sold by 2030 IP-based
- Source: Markets&Markets



## The Smart Home and Building Journey

**The future of our industry  
looks very promising!**

- Digitalisation
- IP-based
- Cyber-secure



## KNX IoT. The vehicle that Enables Evolution

- IP, the language to speak
- No interfaces anymore





## Services with KNX

### KNX IoT. The vehicle that Enables Evolution (2)

- Easy interaction
- (Self-)commissioning of devices
- Standard language between worlds
- Cyber-Security guaranteed

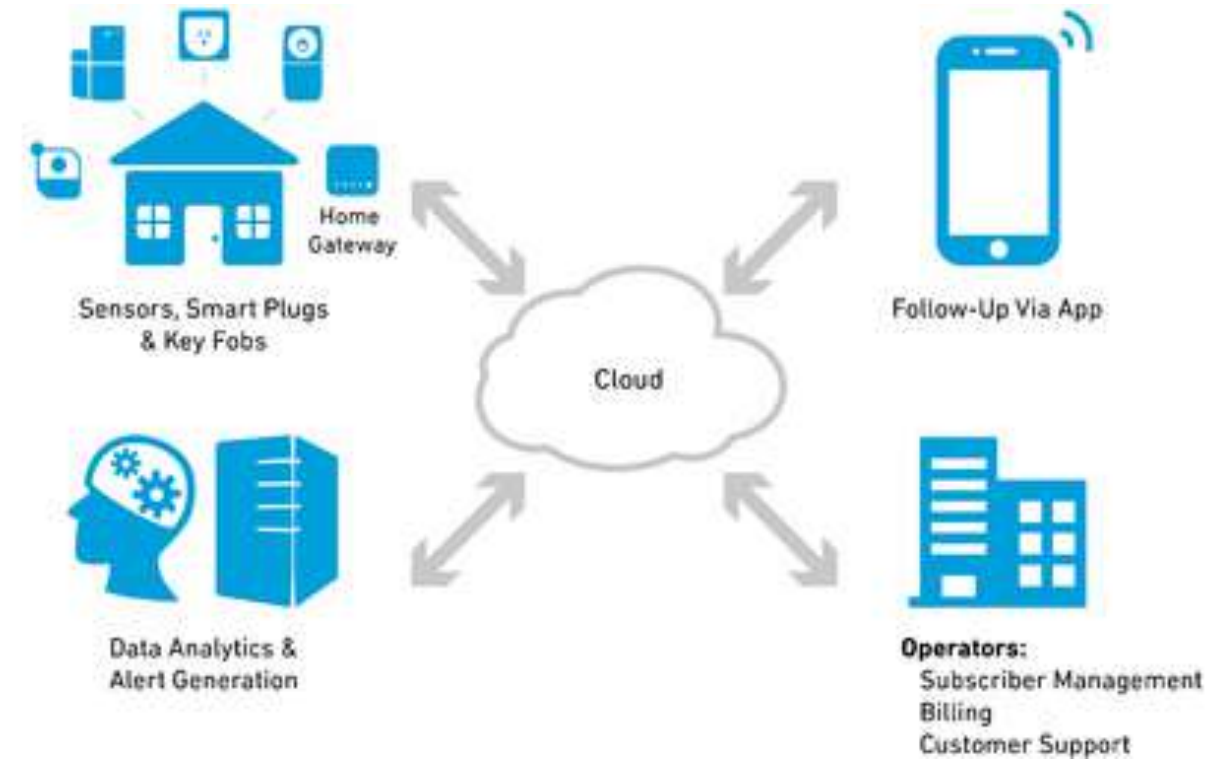




## Services with KNX

### Services with KNX

Services with KNX increases functionality of devices as now devices will be working as an ecosystem. And at the same time, the very same devices will be able to collect and send information to the third parties to make sure the service in place will work without any problem.





## EV charging a very special Service with KNX

### Seamless integration of energy management for mobility

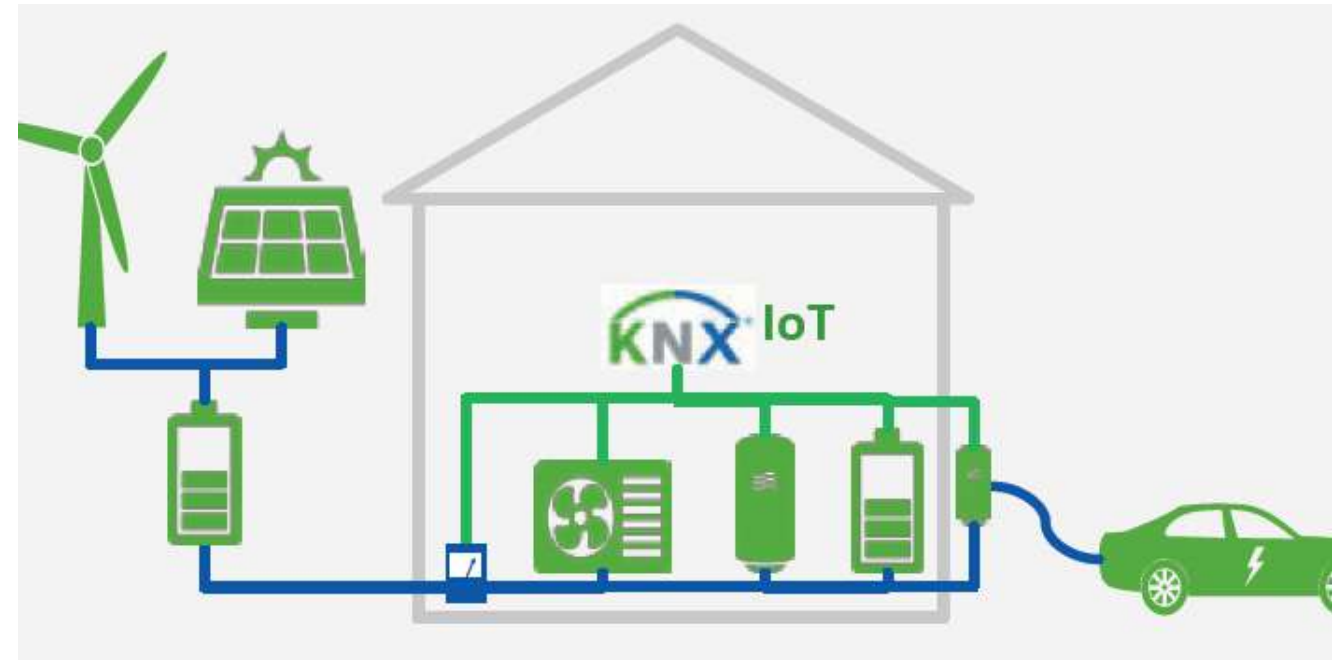
- Clean energy integrated to the home/Building for EV charging
- Energy Management system controls the charging according to conditions



## EV charging uses cases

### Use cases

1. Charging battery
2. Battery used as battery unit
3. Range control
4. ...



# Thanks.

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For general questions:  
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# Questions & Answers



# Thank you!



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<https://europe-on.org/>



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[Sector Report](#)

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ELECTRICAL CONTRACTORS ASSOCIATION