



## The 3rd General Assembly of INCIT-EV took place in February 2023

Last February, **30 partners** gathered in the beautiful Mobility City of Zaragoza, near the CIRCE facilities, on the occasion of the 3rd General Assembly of INCIT-EV organized by **CIRCE**.

For 2 days, INCIT-EV partners shared the **progress of each work package**, all driven by the same goal: boosting the adoption of **electric mobility** within Europe.



General Assembly at Mobility City

The 2023 general assembly was marked by several key moments for the INCIT-EV project, with a focus on expanding our knowledge about **user expectations** and designing a set of **innovative** and **interoperable charging solutions**.

The main results are:

- charging and infrastructure studies are finished
- user studies are performed. The next step is the evaluation of the use cases
- the ICT Infrastructure and the DSS activities are on place
- the first IPR analysis has been completed. Exploitation of the results still is to be defined.

- Zaragoza Public Inauguration of UC6
- V2G and UC7 - Static Wireless Charging
- Other demonstrators all over Europe, in Paris, Utrecht, Amsterdam, Tallinn and Torino are on engineering phase or in preparation for commissioning
- Presentation of **Synergy Club** activities (Collaboration with sister projects).

Everything is in place for the final year of the project.

During this General Assembly, the partners had the opportunity to visit the **Mobility City Museum** where many innovative and legendary vehicles are displayed.



Mobility City museum

The evening ended with a moment of conviviality tasting local specialties.

Thanks to all partners for attending this very special event, and especially to CIRCE for making it happen.



## Inauguration of the INCIT-EV demonstrator in Zaragoza

[See on LinkedIn](#)

**Natalia Chueca**, Minister of Public Services and Mobility of the Zaragoza City Council, and **Andrés Llombart**, General Director of CIRCE, inaugurated the **three new electric vehicles charging infrastructures** that were installed in the vicinity of the Pabellón Puente promoted by Mobility City.



Andrés Llombart presented Natalia Chueca the 50kw static inductive charger

Developed by CIRCE, the INCIT-EV **Zaragoza demonstrator** focuses on two innovative technologies whose aim is to improve the daily life of electric vehicle drivers:

- **50 kW at 85kHz Static wireless inductive charger** which represents a significant technological advance compared to current chargers. This infrastructure makes it possible to charge an electric vehicle parked on a parking spot, without any wires. This system is ideal for taxi and public vehicle.

- **25 kW V2G chargers** that enables bidirectional charging for vehicles and for scooters and bicycles. This charger makes it possible to circulate electricity between the facilities of nearby buildings, other vehicles and renewable energy sources or batteries, thereby providing auxiliary services to the infrastructure and flexibility to the power network. It generates new business models that allow the consolidation of the implementation of the electric vehicle in the city.

Attendees had the opportunity to watch at Mobility City the vehicles charging live.

**Zaragoza's City Council** acts as a partner of the INCIT-EV project and continues on its way as a pioneering city when it comes to pushing the boundaries of sustainable mobility by developing an innovative set of electric vehicles charging infrastructures and their associated business models.



25 kW charger for vehicles



V2G charger for 2 wheelers

[More information about our Zaragoza demonstrators](#)

## WP9 Wide replication of use cases: business models and exploitation strategies

New report available: demand Scenarios (Roadmap) for the different use cases through PESTEL and estimation of penetration curves

[Read the report](#)

The **INCIT-EV** project not only aims at developing new charging technologies through the **demonstrators**, but it also looks into **users expectations** and outline **scenarios** related to the penetration of electric vehicles and to the rollout of charging systems.

Thus, the EV market accounted for a **13% of global sales** in 2022. Compared to 2021, this is tantamount to a **55% increase**.

The objective of this report is to **predict the demand scenarios** for the EU cities involved in the INCIT-EV project.

There are many challenges and uncertainties associated with **predicting the demand** for electric vehicles and e-chargers in Europe.

While some policymakers take on a top-down approach to set targets related to the adoption of EVs, this report is based upon a **bottom-up approach** taking into account the factors that affect individual citizens' capacity and willingness to switch to EVs.

**A bottom-up methodology to evaluate the penetration of EVs and e-chargers across Europe. Uneven growth by region/city**

The report points out **10 factors** that have led to a decrease in vehicle registrations (all types) over the last few years. These factors include the global economic crisis, an aging population, and the

Other factors include convenience (e.g., access to safe charging locations at home or office), publicly available infrastructure, environmental concerns, or legal and regulatory factors.

The report suggests that **the adoption of EVs will not be uniform** across Europe. Wealthy citizens who own their home or garage are more likely to switch to EVs than those who rely on public transport or car-sharing services.

The report predicts that there will be at least **three speeds of EV adoption**. Some countries will pave the way while others will lag behind.

Finally, the report discusses the **chicken-and-egg problem of public charging infrastructure** and the adoption of EVs. On one hand, rolling out public chargers can encourage the adoption of EVs. On the other hand, there is also a risk over-investing in a charging infrastructure that is not used.

As evidenced by the report, the existence of public chargers encourages the purchase of EVs, but at the same time, it has also been demonstrated that these public chargers will be used very rarely (usually 5% of charging events) and will mostly be used by professional fleets (cabs, parcel delivery, citizens in transit, ...).

In short, electric vehicles will not tap into the EU market homogeneously. The speed of adoption will vary from country to

rise of car-sharing and micro-mobility options, zero emissions areas, hybrid offices, among others. The report predicts that these factors will keep on affecting vehicle registrations in the future, leading to a **20 to 35%** decrease by **2030**.

The authors also identify **25 factors** that will impact the speed of EVs adoption, classified under the PESTEL theory (political, economic, social, technical, environmental, or legal).

Economic considerations, such as the cost of EVs and charging infrastructure, are likely to be the most important factors influencing citizens' decisions to switch to electric.

country. It will especially depend on the average **purchasing power** within the country.

Once the main technical challenges have been overcome and the early adopters have made the transition to electric mobility, it will be necessary to focus on the large part of the population with low incomes, that needs cheap and comfortable solutions to take the plunge. After analyzing the situation with the aforementioned factors in the five cities that are part of the INCIT-EV project, the **penetration curves** might be as expected in some cases and rather low in others. You will find below the examples of Utrecht as the leading city and Tallinn as lagging one.

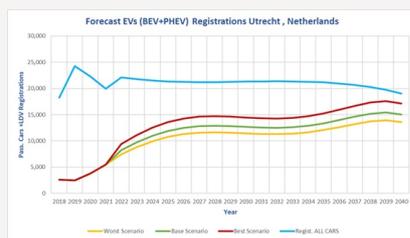


Table 4. Leader country. Utrecht. New registrations

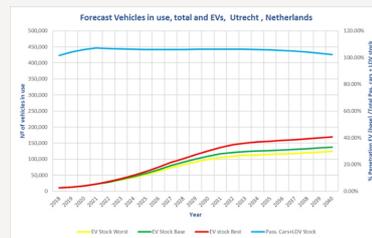


Table 1. Leader country. Vehicles in use (38% 2040)

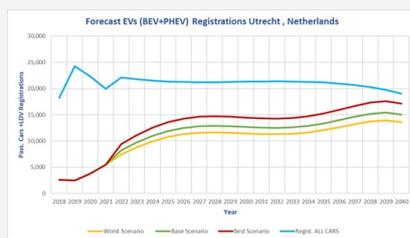


Table 3. Lagging city. Tallinn. New Registrations

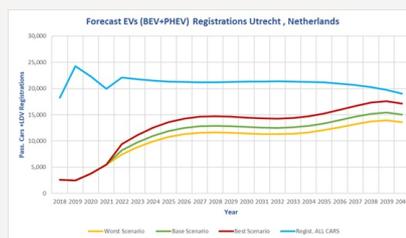


Table 2. Lagging city. Tallinn. Vehicles in use (18%, 2040)

## More information about INCIT-EV

[Visit our website](#)

[Follow us on LinkedIn!](#)

This email was sent to {{ contact.EMAIL }}

You received this email because you subscribed to the INCIT-EV newsletter. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 875683.



[Unsubscribe](#)