

ePoint  
ELECTRIC CHARGING

PRESENTATION  
PROJECT

2022





ePoint

## PROBLEMS OF OWNERS ELECTRIC CARS:

Insufficient number of charging power plants, especially on highways.

Existing electric chargers are not powerful enough.

There is no single mobile solution for easy use.

# E-POINT WILL SOLVE THESE PROBLEMS BECAUSE:

- cheaper - compared to others (cost in Ukraine 2900-3500 \$);
- more powerful - 53 kW per year;
- faster - we can automatically distribute the charge depending on how many cars are charged at the same time;
- it is easy to find - backlight in the dark, even when it is not activated;
- it is easy to earn with it - srm for earnings;
- developed Billing adapted not only for the Ukrainian market, but also for other countries, primarily the EU.



VIDEO PRESENTATION AT THE LINK



[HTTPS://YOUTU.BE/PGYU9W0HND8](https://youtu.be/pgyu9w0hnd8)

# TECHNOLOGIES

## CYBER-PHYSICAL AND EMBEDDED SYSTEMS

With the help of secure Internet protocols, interaction with the billing system is established. Also with the help of one-wire technology, the charging station communicates with the on-board computer of the electric car. The system decides whether to start or stop the charging process, regulates the charging speed of the electric car depending on the data obtained from these sources.

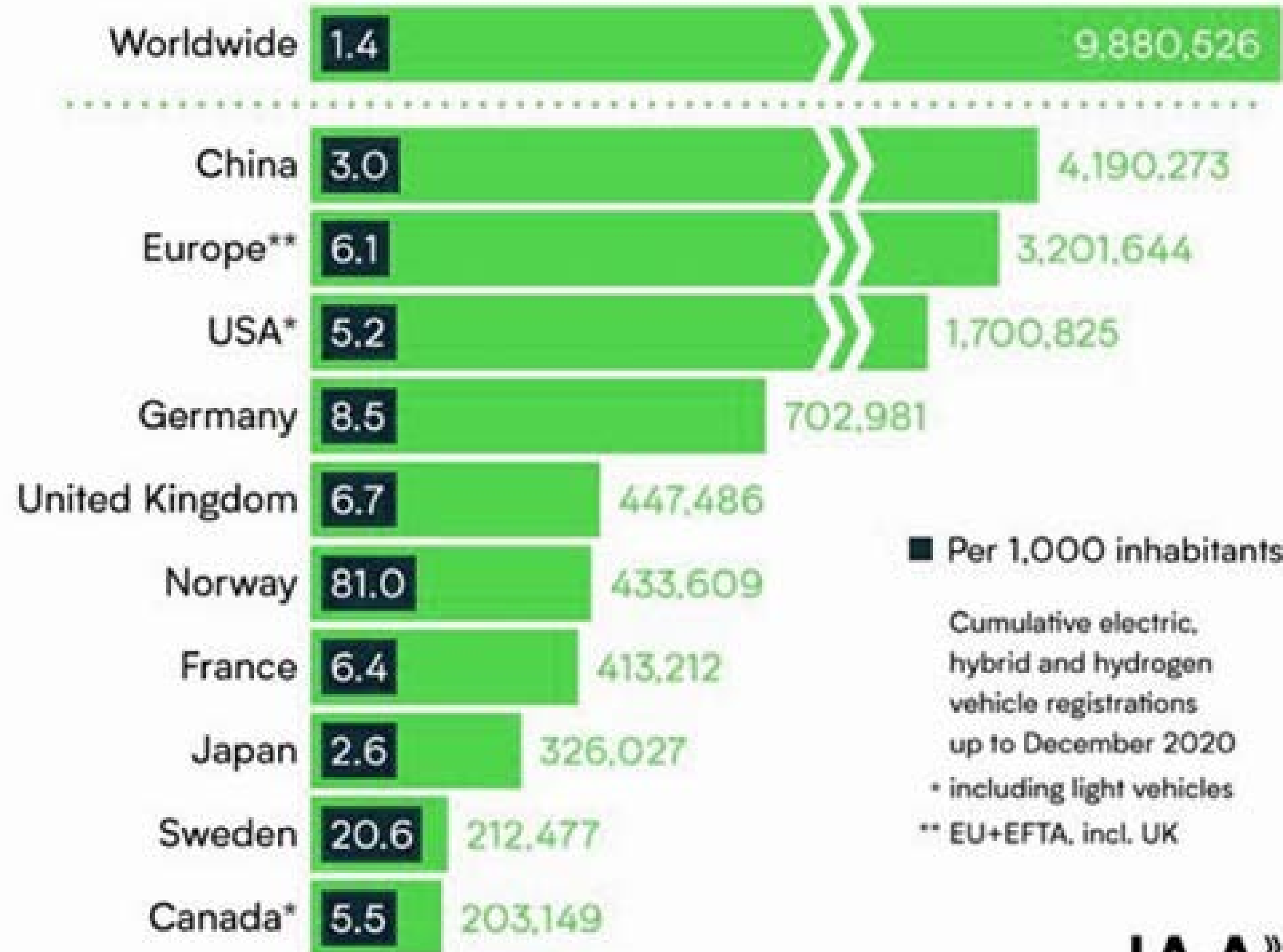
## INTERNET OF THINGS

In the course of work the data received from sensors in charging station by means of the onboard computer receives data from sensors of the car are used. This data affects the process of the system (control of the backlight, display the necessary information on the screen, etc.)



# COMPETITORS AND ALTERNATIVES

Name	ePoint	EVeus	TOKA	Auto Enterprise	Elecargroup	Kostad	EVlink	Efacec	TERA (ABB)
Region	Ukraine	Ukraine	Ukraine	Ukraine	Ukraine	Austria	France	Portugal	Switzerland
Purpose	комерційні домашні	домашні	комерційні домашні	комерційні	комерційні домашні	комерційні	комерційні	комерційні	комерційні домашні
Installation	потребує	потребує	needs	needs	needs	needs	needs	needs	needs
Maximum power kW	до 53	9,2	до 66	до 84	до 22	322	44	43	22
Convenience	backlight	-	not highlighted	backlight	small dimensions	not backlit	not backlit	backlight	not backlit
Network	universal billing	-	own	own	-	-	own	-	in Ukraine YASNO E-mobility
Price in euro	2900	390	2960	7000-50 000	2025	-	4340	1000	2170



■ Per 1,000 inhabitants

Cumulative electric, hybrid and hydrogen vehicle registrations up to December 2020

\* including light vehicles

\*\* EU+EFTA, incl. UK



■ 2020

■ 2019

Electric, hybrid and hydrogen cars

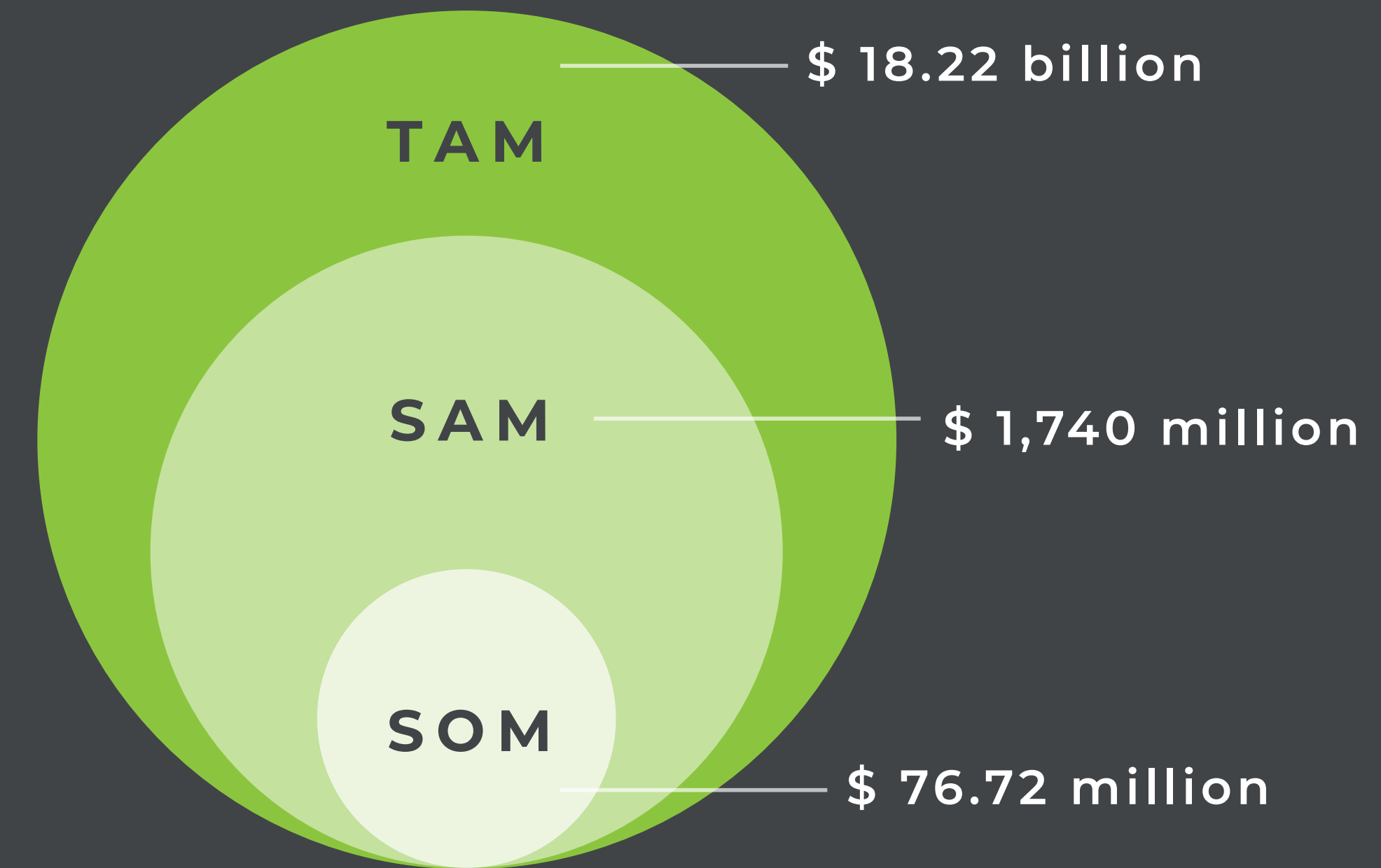
\*\* EU+EFTA, incl. UK

The global market for charging stations for electric vehicles is expected to grow by 35% and reach 115 billion US dollars by 2028, according to the latest market research published by Facts and Factors.

In Europe, growth was 143 percent, in Germany - 263 percent, in Italy - 247 percent, in France - 202 percent.

According to the Ministry of Infrastructure of Ukraine, the ratio of the number of electric vehicles (34,211 units) to the number of charging points (7,757 units) - is 4, but 70% of them are quite slow, not all work

## MARKET SIZE



TAM The global market size is \$ 18.22 billion

Forecast 2021-2028 CAGR 35%

SAM Market in the EU - the number of charges 6 million \* 2900 = 1740 million euros

SOM Market in Ukraine - number of owners of electric vehicles

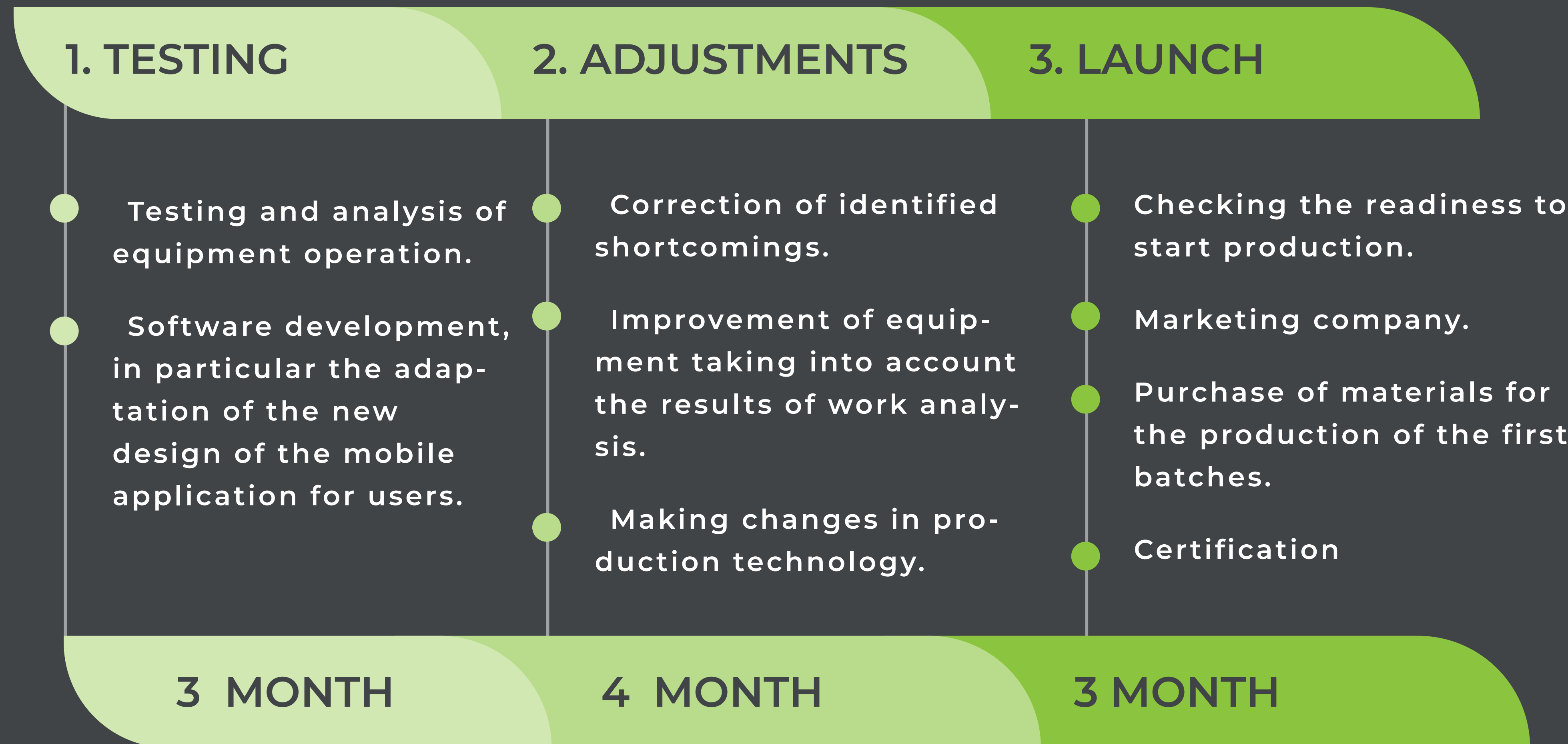
(34211-7757) 26454 \* 2900 euros cost of one charge = 76.72 million euros

# MARKET ANALYSIS



# DEVELOPMENT PLAN WITH

TODAY WE ARE TESTING TECHNOLOGIES AT THE LEVEL OF TRL 7, AND AT THE END OF THE PROJECT WE PLAN TO HAVE TRL 8.

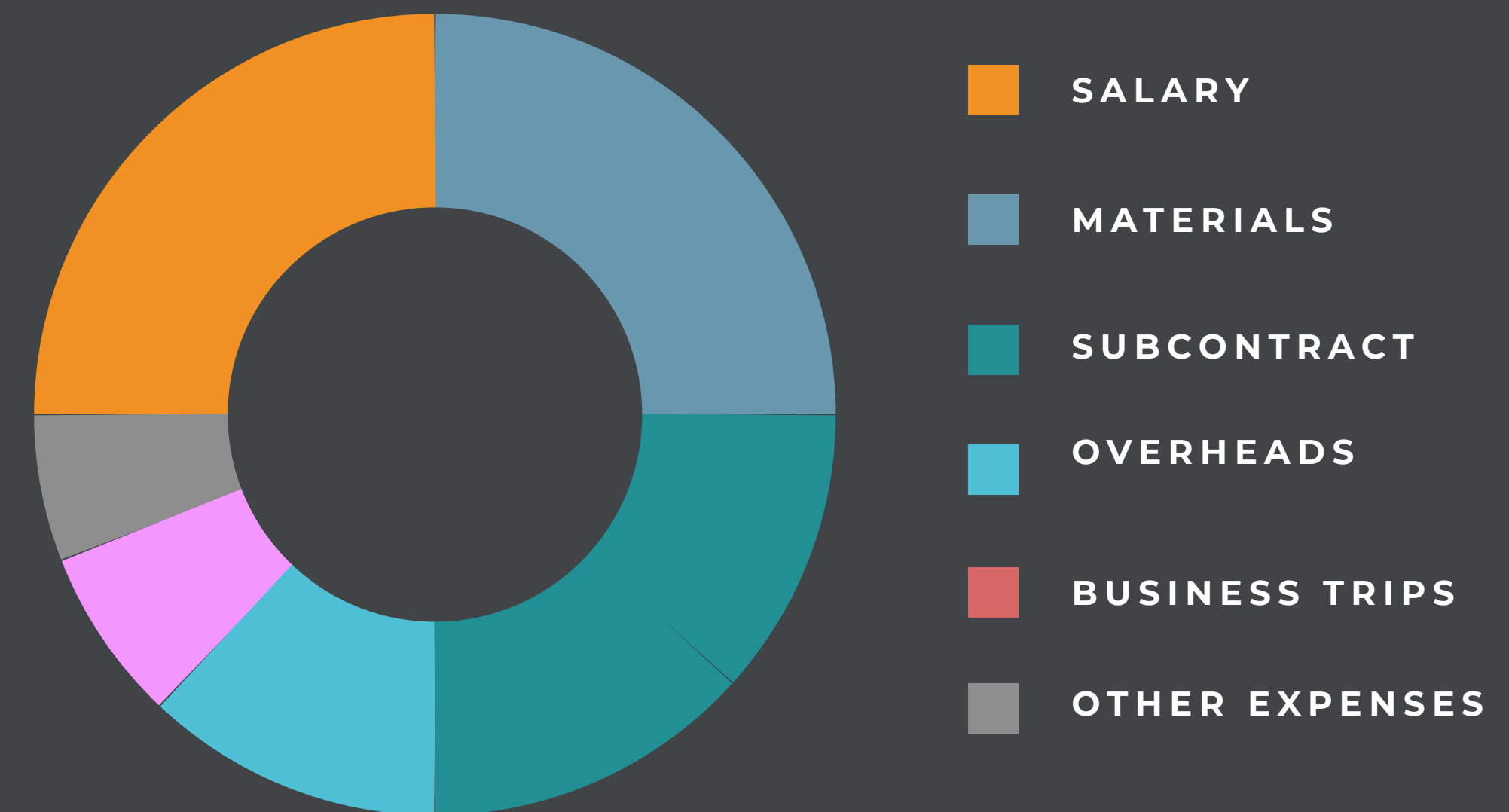


# PROJECT BUDGET



## PROJECT BUDGET FOR 10 MONTHS:

- Funded through BOWI 60,000 euros
- Own funds 57,700 euros.
- EUR 15,000 certificate for PIAP for the following services:
  - marketing company;
  - connections with profile Associations, clusters;
  - examination and preparation for certification in EU countries.



# TEAM

CTO/coordinator - **Konstantin Chomolyak, 20 years of successful work as a project manager at various stages of technical development.**

CIO - **Andriy Boyko, For the last 3 years he has been building one of the largest charging networks in Ukraine: billing system, technical support, site selection and charging station installation.**

CLO - **Bilchyk Oleksandr, more than 10 years of experience in the legal field.**

CMO - **Andriy Lazoryk, SMM, marketing, over 6 years of experience.**

CEO - **Vera Chomolyak, general management functions.**

THANK YOU

