



C2C

NEW CAP

**SUPERCAPACITOR TECHNOLOGY
FOR SUSTAINABLE MOBILITY**

SOCIETAL PROBLEM - WE CAN MAKE A DIFFERENCE



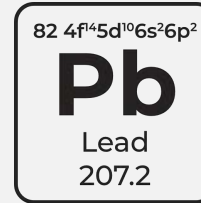
The molecule that everyone is concerned about.

834 MT

Annual CO₂ (millions of tonnes) equivalent from the transportation industry

25 %

Emitted from trucks and buses in the EU - 6 % of the total EU emissions.



The metal that no one wants to talk about.



900 000
premature deaths / year



100 B\$
/ year

Our impact: cut up to 10% CO₂ and up to 100% lead use in heavy transportation industry

CUSTOMER PAIN

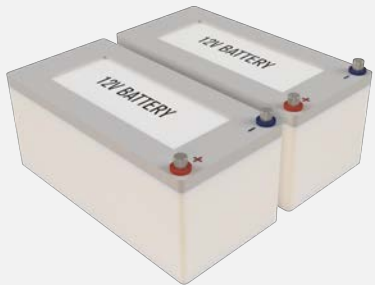
Meet Mr. José: A typical truck driver with typical pains: Costly battery problems that cause operational delays.

Idling*

- 1500 - 7000 € fuel / year
- up to 10 % extra CO₂ emissions

Lead (Pb) consumption

- 100 kg of lead (Pb) / year



2 lead-acid batteries
(Standard solution for trucks)



"I DON'T TRUST THE BATTERY, SO IDLING WILL ENSURE I CAN SPEND THE WEEKEND WITH MY FAMILY!"



*Idling - leaving the engine running when the vehicle is stopped.

GO-START REDUCES OPERATIONAL COSTS

GO-START Supercapacitor + Battery with monitoring system reduces idling and battery problems.

Idling*

- Idling savings: up to 7000€ fuel / year
- Cut up to 10 % CO₂ emissions

Lead (Pb) consumption

- 80 to 100 % lead (Pb) reduction



Supercapacitor + battery pack plug & play solution



"WITH GO-START I WILL BE HOME BY FRIDAY WITHOUT IDLING!"

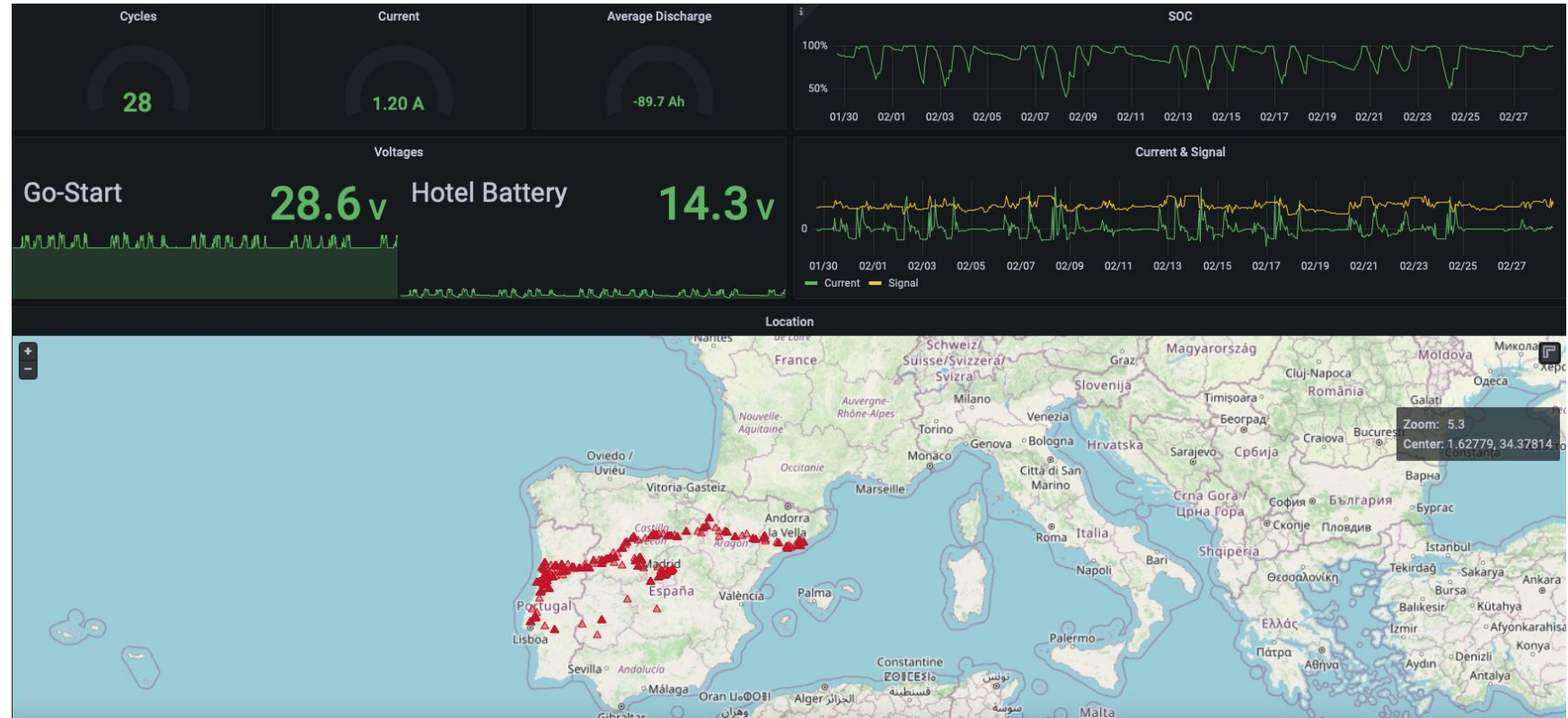


*Idling - leaving the engine running when the vehicle is stopped.



CUSTOMER BUSINESS CASE: 2000€ Fuel savings / Year

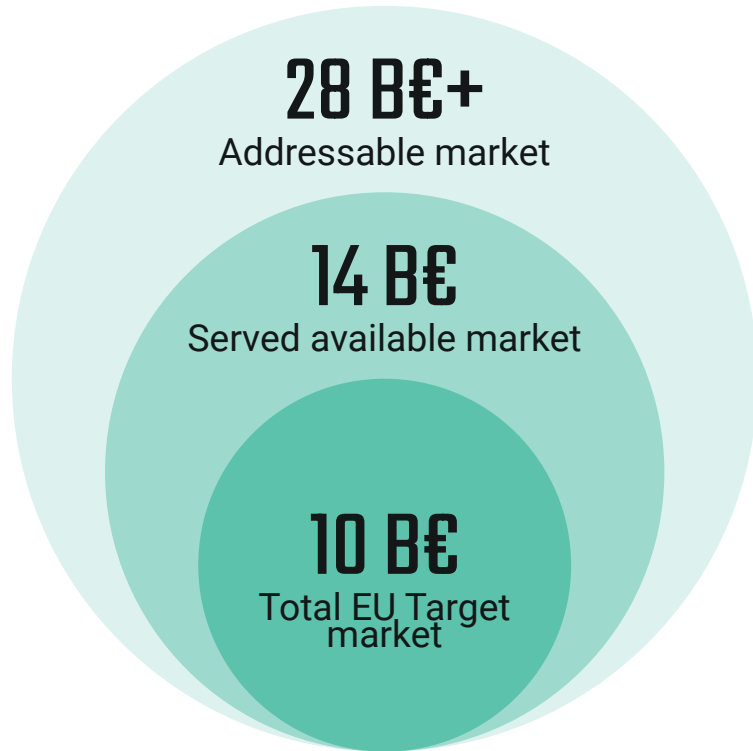
REMOTE MONITORING SYSTEM



A remote monitoring system provides information on:

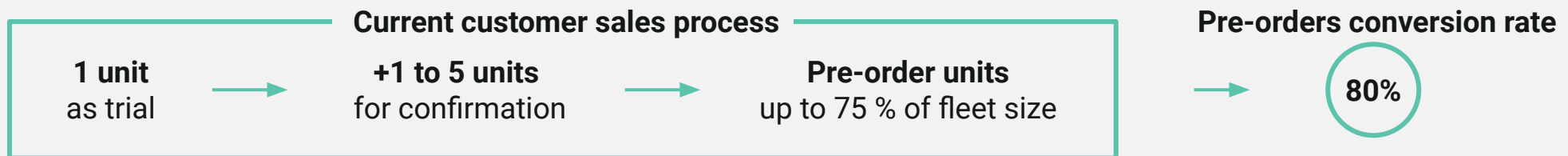
- Aprox. location of the vehicle
- GO-START and battery voltage
- state-of-charge (SoC) of the battery
- Number of charge-discharge cycles
- Electrical consumption

TARGET MARKET = 3B€



| Target Market Region | Mid-heavy commercial vehicles | Market value | Rationale |
|----------------------|-------------------------------|--------------|-------------|
| PORTUGAL | 134 k | 0.2 B€ | Proximity |
| SPAIN | 614 k | 0.9 B€ | |
| GERMANY | 962 k | 1.4 B€ | Market size |
| FRANCE | 600 k | 0.9 B€ | |
| ITALY | 920 k | 1.3 B€ | |
| POLAND | 1.2 M | 1.8 B€ | |

Total market value in 5 selected EU countries 6.5 B€
Target market (long haul transportation) = 3 B€



SALES PLAN

Direct sales of product for 3 segments



Commercialization strategy

B2B direct sales

- Rui Silva (Co-founder), senior sales director, technical sales, marketing and business associate

Distribution deal

- Distribution deal for 50 units in 2022/2023 achieved



Sales channels / segments

B2B Fleet owners

Distributors

OEM



End users

Logistic companies



ROADMAP 2023-2027

Going from product-market fit to our next big goal: EBITDA positive in 3 years



- +150 k€ orders
- Product certification
- Product-market fit validated



- Cost down product



- ~10k GSE / year
- Series B: Investment round

2023

- Deliver 1st distribution contract
- GO-START + Li-ion battery pilot tests + certification + vibration tests

2024

- Factory set-up
- Business + manufacturing scale-up



2025

2026

- 200 units / month
- Headcount: 19 + 10 R&D projects
- Break even
- Business model + large-scale manufacturing validated



2027

OUR PURPOSE, OUR FUTURE MARKETS



DIESEL TRUCKS



6.5 B€

VANS/UTILITARIAN VEHICLES



1 B€

ALTERNATIVE FUEL TRUCKS



1 B€ (2030)

BUSES



1 B€

BOATS



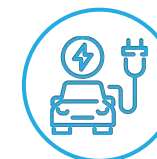
1.8 B€

UPS/STATIONARY APPLICATIONS



0.5 B€

CAPACITORS IN EVs



2 B€

Automotive

- ✓ Certified Product
- ✓ Market entry
- ✓ 1 patent + 1 draft



Stationary energy storage

2024



HYFlow
HYBRID ENERGY STORAGE SYSTEM



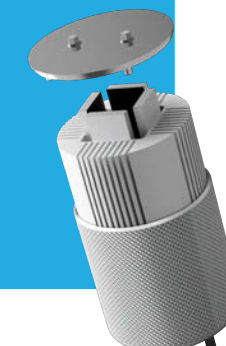
Electronics

2026

- ✓ 1 patent



P.CAP



TEAM



Rui Pedro Silva
Executive manager
(Co-founder)



André Mão de Ferro
Executive manager
(Co-founder)



Sónia Eugénio
Project manager
(Co-founder)



Alberto Adan Más
Head of R&D



Cátia Piedade
Head of production



Rachel Sadok
Head of supply chain &
Operations



Katarzyna Siwek
Head of Engineering



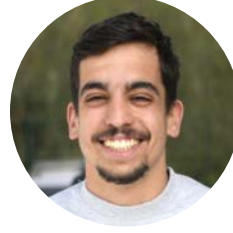
Silvia Gailly
Electrode engineer



José Luz
Production



João Parada
Product engineer



João Santos
Product engineer

2023/2024
Additions



Production



Engineering



Sales & Marketing

TRACK RECORD:



*Equity-free incentive 300 k€
2017-2018*



*Several H2020/Horizon projects, SME
Phase I and II, EIC Accelerator and EIC
Transition - +5 M€ of total support*



*Award winning \$100k prize money
Edition 2022 / Transport category*



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Thank
you!



CONTACT US:

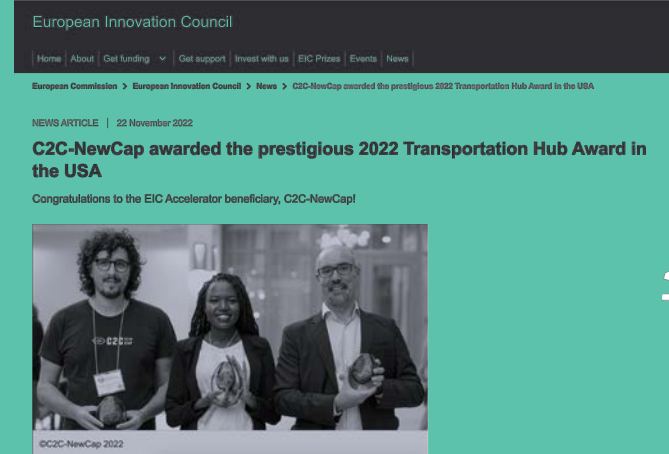
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Highlights:



(EU year of youth 2022 commissioner Thierry Breton)