MOBILE WORLD CAPITAL BARCELONA

The Collider

OMNIWAVE

OMNIWAVE

CHARGING ON THE MOVE

Sector

- Sustainability and Energy
- Logistics and Delivery
- Mobility
- Consumer electronics
- Autonomous vehicle
- Smart cities and smart grids

About

Our technology facilitates efficient, high-power, long-distance wireless transmission of energy for static or moving objects.

The problem

- The range of heavy electric vehicles is severely limited by their battery size, often making long-distance trips non-viable and impeding their use for transporting merchandise.
- In daily life, the wiring can lead to issues such as clutter and tangling, mobility limitations, and compromise the aesthetic. Current systems often offer limited operating range and efficiency.

The solution

Our technology enables high-power charging of moving objects. This system allows vehicles on the track to be charged, thus making their range effectively unlimited. Furthermore, it allows for wireless charging devices like smartphones and laptops in a specific controllable area.

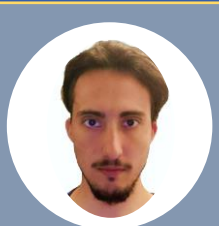
Why OMNIWAVE?

Our technology utilizes new electromagnetic coupling methodology for long-distance, high-power transmission to a precise coupling point, where the coupling distance is controllably adjusted. This innovation enables broad application, from charging small devices to large electric vehicles.

Contact

Dr. Jordi Bonache
Principal Investigator
Physicist & Electrical Engineer
24 Years in Microwave and Antenna Tech
12 Years in Field Confinement Technology

Dr. Gerard Zamora
Researcher
Electrical Engineer
17 Years in Microwave and Antenna Tech
10 Years in Field Confinement Technology



Dr. Álvaro Jaque
Researcher
Electrical Engineer
6 Years in Microwave and Antenna Tech
6 Years in Field Confinement Technology

Jordi.Bonache@uab.cat