



David Pistoni Pérez

Co-founder & CEO Zeleros

Main product: Zeleros hyperloop

Aim: To design new transportation technologies enabling a more sustainable way to carry people and goods



zeleros.com

@zeleros

Zeleros Hyperloop

zelerostech

Enabling sustainable and efficient transportation worldwide

The project

The idea

We are developing a hyperloop-inspired transportation system where capsules travel at 1 000 km/h inside low-pressure tubes. It combines the speed of a plane, the convenience of a train, and the frequency of an underground system. All while being more energy efficient than current travel methods and free of direct emissions.

“We cannot negate the obvious: climate change is mainly caused by human action and we must act now to mitigate its effects.”

Inspiration

After analysing the transportation industry, several elements became clear: aviation is among the most ineffective methods of transport for medium distances, railway offers low flexibility, and magnetically levitated systems have high infrastructure costs due to their complex functioning. That’s how Zeleros came about.

Unique selling points

By minimizing the use of linear motors with in-vehicle technologies, Zeleros reduces infrastructure costs. Also, it enables operation at higher tube pressure which drastically facilitates maintenance procedures, while improving passenger safety.

Societal impact

The transportation sector becoming increasingly important can be directly linked to the rise in infrastructure congestion, pollution and oil dependence. Our solution brings an answer to all these issues and much more.



Supported by:



Start year:
2016

Generated funding:
EUR 2 000 000 (+ preparing
EUR 15 000 000 project)

Challenge:
The future of sustainable
transportation

Venture Development

We are now focusing on the two key systems of the vehicle: propulsion and attractive levitation. These are crucial to defining the infrastructure design that needs to be kept as simple as possible for future scalability and affordability.

EIT Community support

The EIT is the perfect bridge to leverage our disruptive innovation project at European level.

The nominee

The beginning

In 2015, our CTO, Daniel, heard about a competition organised by Elon Musk to design hyperloop systems. We took the challenge and won the Top Design and Best Propulsion System Awards. Then we created Zeleros to turn our concepts into reality.

Rewarding moments

I’ll never forget the moment I saw our first hyperloop prototype move at SpaceX’s competition. It was assembled under extreme conditions and we shipped it just in time for the contest. I started crying when I heard we were among the top ten teams worldwide.

