



The electromagnetic train TELMAG is a land mass transit system, built and designed by the company INNOVEM. It no requires mechanical friction for propulsion.

Innovem has extensive experience in scientific and industrial fields, the product of many years of commitments. Speciality in electrical, electronic engine power, advanced control systems for the oil industry, development of linear motors and electronic circuits.

PROPERTIES:



- **Propelled** by a Linear Reluctance Motor that guides and supports directly by electromagnetic forces between the vehicle and the rails without friction or mechanical wear.
- **Slopes:** There are no limitations to climb steep slopes.
- **Environmental benefits:** Telmag is one of the most friendly systems to the environment because it is all-electric and non-polluting. It is located on an elevated rail to overcome steep slopes and ensure minimal environmental impact on their environment.
- **Rechargeable batteries:** Telmag can operate with rechargeable batteries at each station. Being able to use solar energy in part.
- **Catenary:** When using a rechargeable battery system Telmag is fully autonomous and does not need the catenary to the electrical outlet. But it could use.
- **Uniform pressure:** No exerts a point pressure on the rails but uniform, which makes it useful for any kind of terrain and climate.
- **Guided system:** The guidance system subject to the track makes it totally impossible to be derailed.
- **Passive Track:** Telmag not need a winding and electrified rail, it is totally passive. This system simplifies and reduces the price in the construction and maintenance.

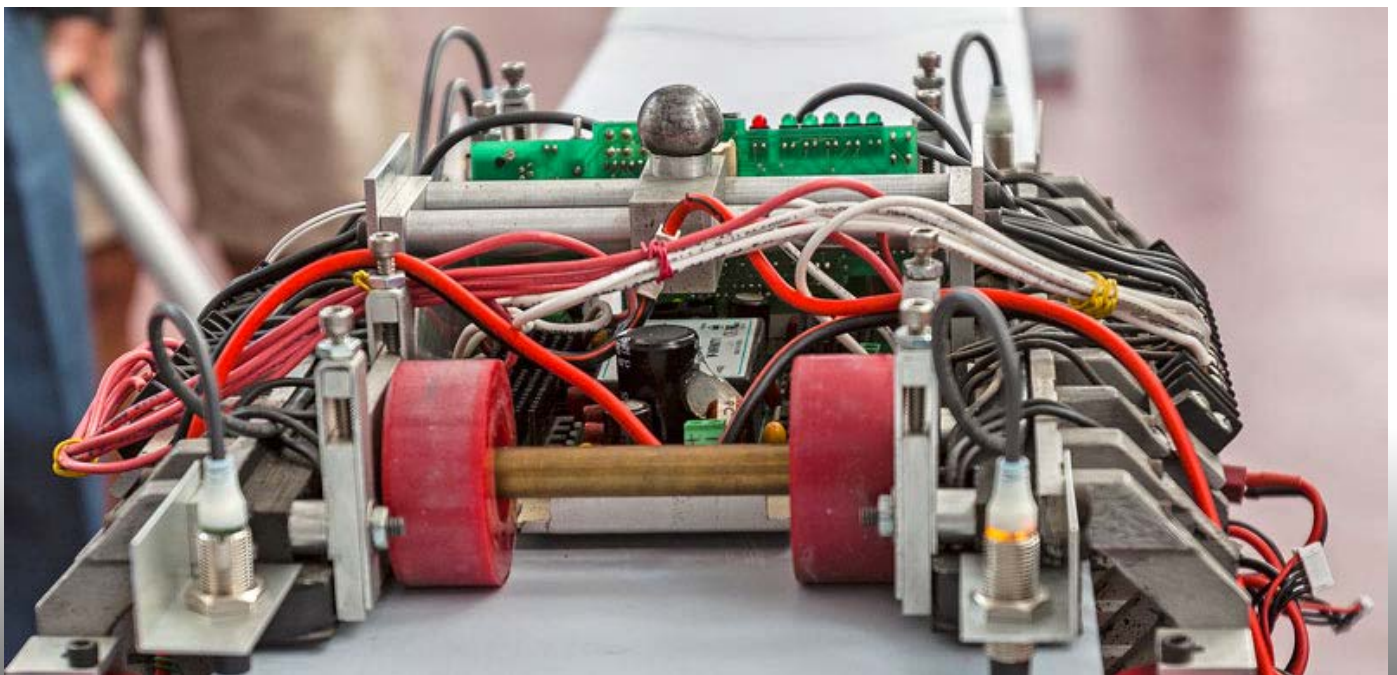
TELMAG TRAIN

Research and development in the Telmag Train began several decades ago. With an initial idea of building a guided transport system, with greater traction compared to a traditional railway, which allow to the vehicle climb steep slopes and safely develop high speeds and low maintenance.

The Innovem proposal using the vehicle Telmag by linear motors can simplify and significantly reduce construction costs in high-speed propulsion systems.

Its innovative propulsion system fully enables it for use in any kind of terrain and adverse weather.





INNOVEM, Av. Ernest Lluch 32, Tecnocampus TCM2Mataró, Barcelona-España. CP-08302.
Tel: +34 937 021 979.