

## « What is a Hyperloop? » (Video transcript)

A Hyperloop is a futuristic train project unveiled by U.S.-based businessman Elon Musk.

### **Its aim?**

Travel very long distances faster than an airplane while being quieter and less polluting.

### **How would a Hyperloop work?**

Passengers would be seated in capsules. Diameter: 2.7m / Length: 32m

These capsules would be propelled through huge, low-pressure tubes by a magnetic field generated by induction motors placed at regular intervals. High-pressure air would be inserted between the walls of the tube and the capsule to form an air cushion, allowing the capsule to move free of friction.

### **The 3 main advantages:**

#### 1. **Speed**

Because of the lack of friction, capsules could travel at between 1,000 and 1,200 km/h.

3 to 4 times faster than a high-speed train.

Making it possible to cross the entire United States from east to west in just 4 hours.

#### 2. **Silence**

The tube structure would absorb the noise = little noise pollution unlike with trains and planes.

#### 3. **Environmental impact**

Hyperloop systems could emit significantly less pollution than planes.

Potentially making them a cleaner mode of transportation.

### **The challenge?**

Creating a dedicated tube network when aircraft do not need any such physical infrastructure.

### **How far along is the project?**

A number of companies are currently working on developing Hyperloops all over the world. And real-life tests have already taken place with 40 passengers.