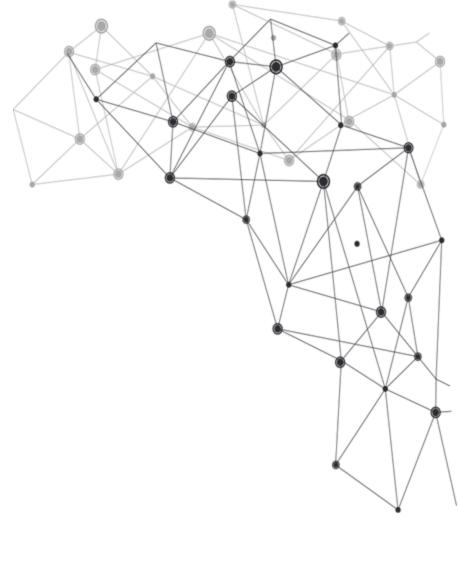
A Presentation by -

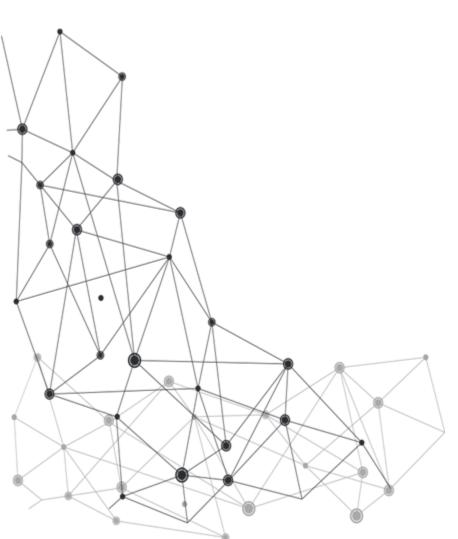
Atharva Kurumbhatte

JSPM NTC

Div: C

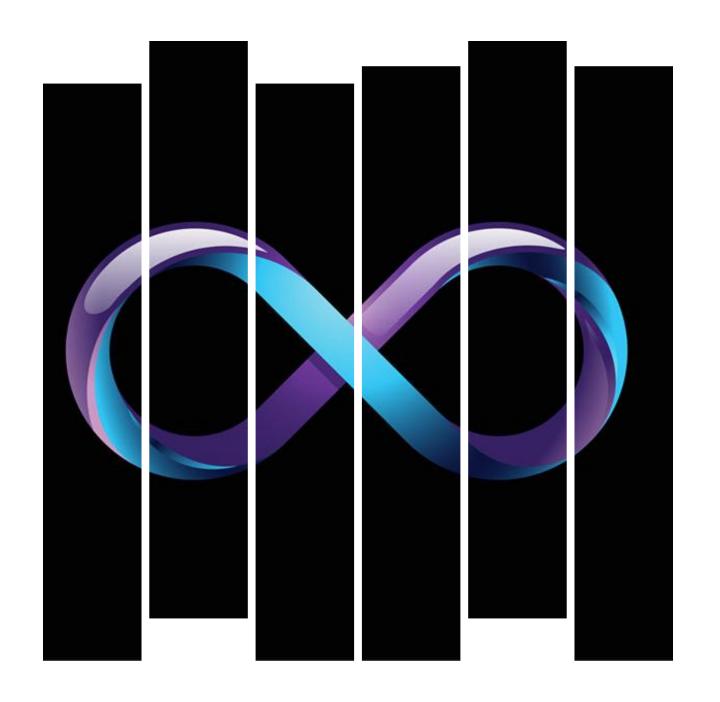
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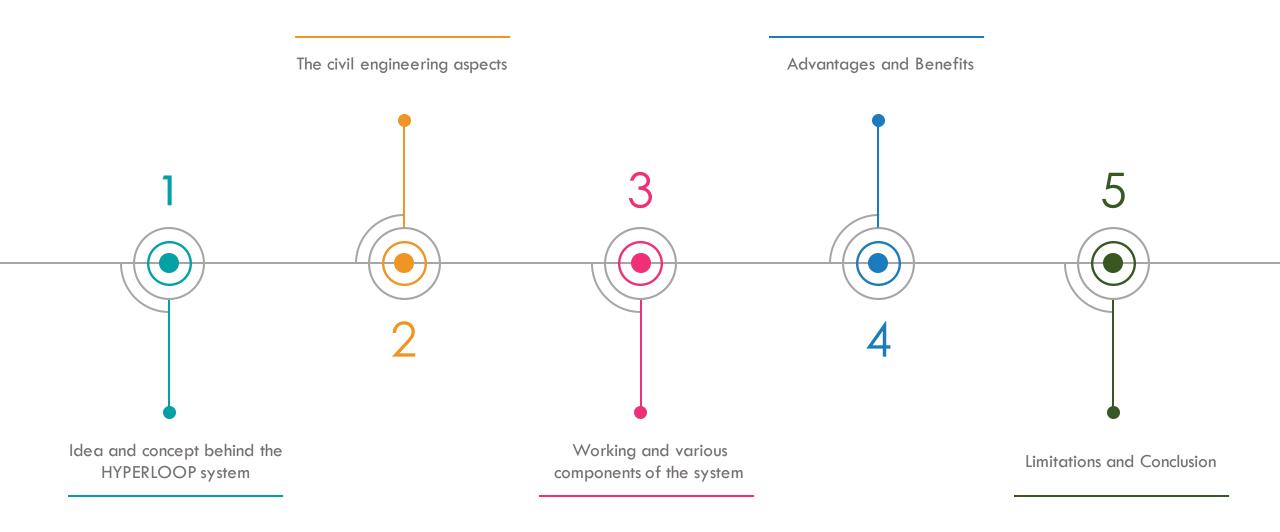


HYPERLOOP

A giant leap forward into the future of transportation



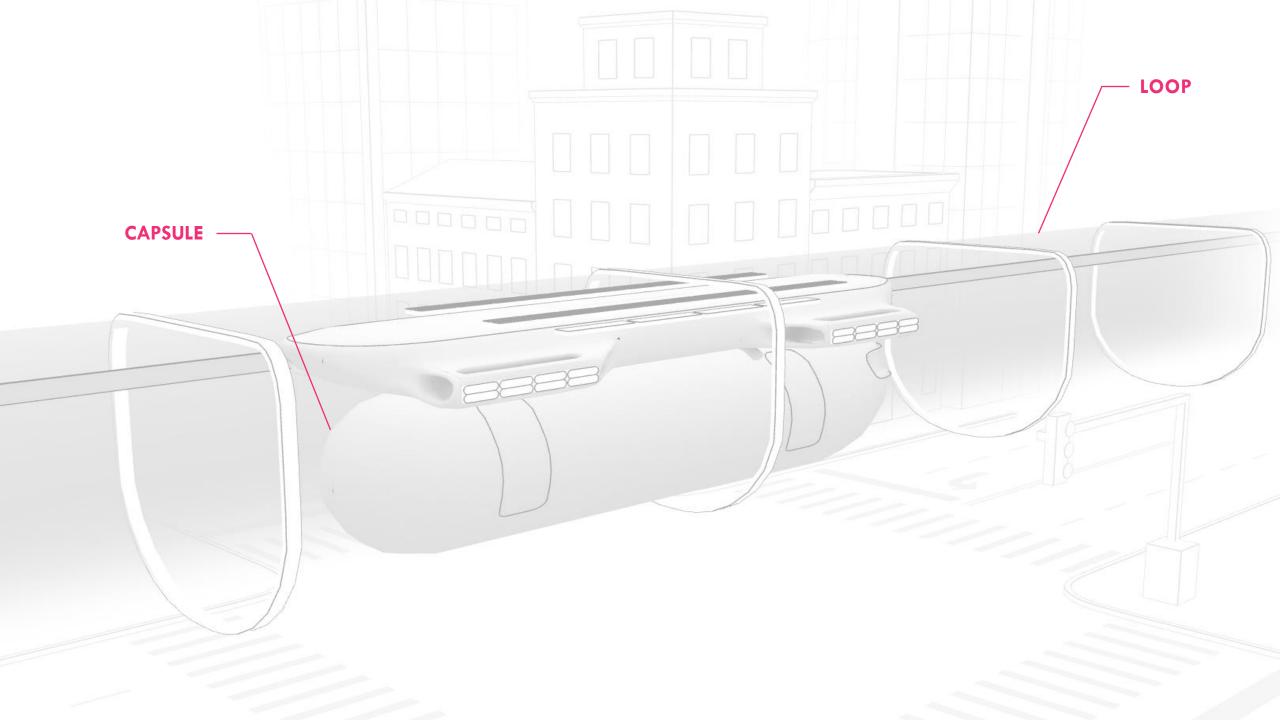
OVERVIEW



MUSK'S VISION

The idea of HYPERLOOP was introduced by Elon Musk in 2012





THE COMPANIES WORKING ON HYPERLOOP







CIVIL ENGINEERING ASPECTS

Where do civil engineers come into the picture?



STRUCTURAL ENGINEERING

Positioning and construction of the loop







GEOTECHNICAL ENGINEERING

To allow design and construction of stable structure



TRANSPORTATION ENGINEERING

HYPERLOOP is a safe and comfortable mode of transport







ENVIORNMENTAL ENGINEERING

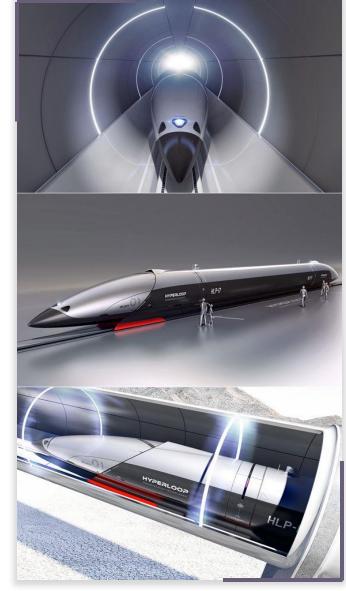
This project will have a massive impact on the environment

WORKING

The system works on a combination of magnetic levitation and electric propulsion







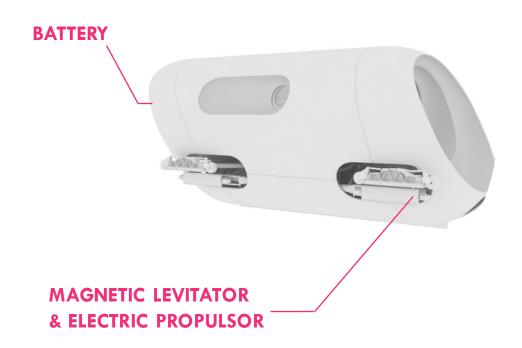
THE CAPSULE

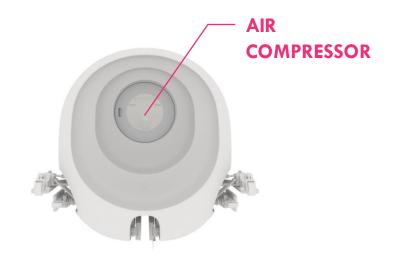
Pods of various designs and dimensions are being manufactured in order to meet recent demands

01. Components

02. Passenger Capacity

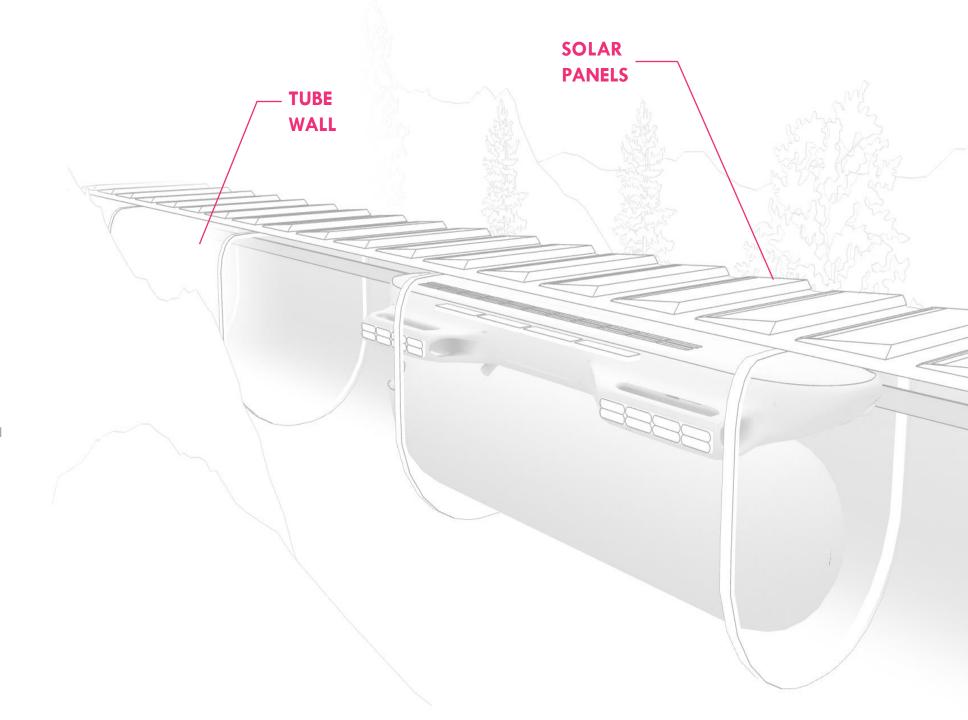
03. Air Bearing





THE LOOP

The tubes are designed to reduce air resistance using a partial vacuum system



ADVANTAGES

The following key points put HYPERLOOP in a favorable and superior position as compared to other modes of transportation.



SPEED

Fast and efficient system of transportation



SAFETY

Free from the risk of accident



COST

Economical and inexpensive in the long run



ENVIORNMENT

Pollution free and safe system



ROUTES



TECHNICAL CHALLENGES & THREATS

HYPERLOOP technology stands to transform transportation and urban living. With the ongoing developments for this technology, more hurdles and challenges start arising

High speed of the capsule

Initial cost of the system

Land use rights will be a concern

High risk factor in case of adversity

Limited space

Loading capacity



CONCLUSION



THANK YOU