

TUM Hyperloop

The next era in mobility, built and engineered in Munich



A major milestone in developing hyperloop for passenger mobility



Three years ago we set out on a journey to bring hyperloop into the real world. Yet we didn't just build hyperloop technology, we completely reimagined what the future of mobility should be like, for all of us.

In an event with Bavarian Prime Minister Dr. Markus Söder and the Bavarian Minister of State for Science and Art Markus Blume, TUM Hyperloop presented Europe's first operational hyperloop segment with passenger pod vehicle to the public. As the highlight of the event we featured a live lift off and experience of a passenger ride in our hyperloop segment in front of 600 invited guests.





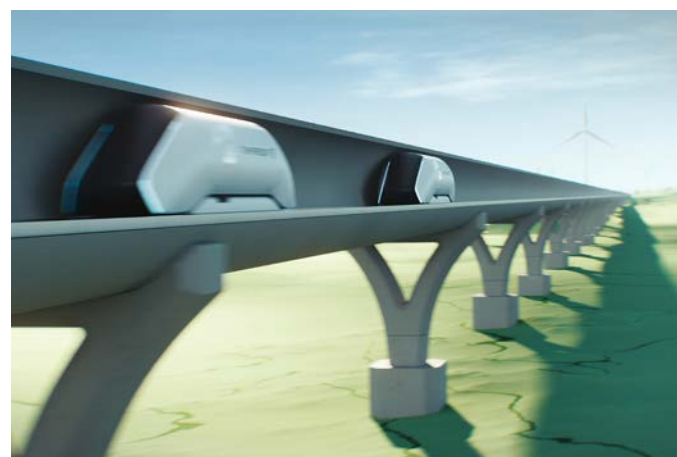
Europe's first hyperloop segment that is certified for passenger mobility

The hyperloop demonstrator is the initial milestone of an extensive testing strategy, intended for developing and certifying core hyperloop systems and technologies.

It includes a full-scale concrete vacuum tube and passenger-size pod vehicle, the first ever built for passenger transport in Europe. As the first of its kind in Europe and fully certified for passenger operations by TÜV SÜD, the demonstrator allows a glimpse into what hyperloop technology will look like in the future.

Hyperloop?

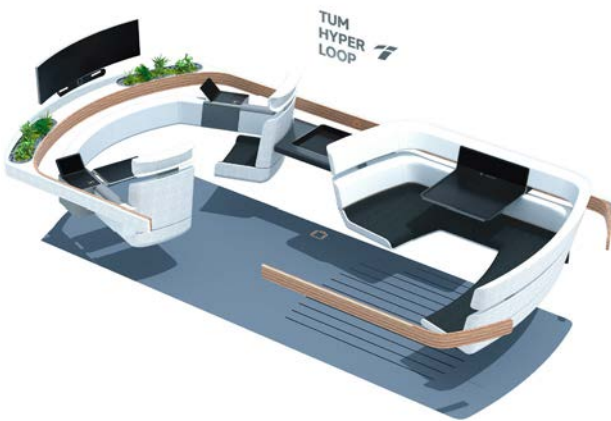
Hyperloop will enable ultra-fast and sustainable connections between mobility hubs. Travel between cities in an instant, booking at your fingertips, boarding in minutes, and a journey without stops.



A passenger module with interior experience that reimagines the future of travel

The passenger module is one-of-a-kind and provides a realistic insight into the unique travel experience with hyperloop.

The vehicle was developed for use in partial vacuum and thus enables the system to be operated with passengers for the first time in Europe. The combination of modern ultra-light materials makes the vehicle both energy efficient and safe. The passenger module with integrated interior concept makes it possible to experience the future of mobility with hyperloop. Modular seating offers unique options for both individuals and passengers travelling in a group, placing highest demands on functionality and passenger comfort.



Europe's first passenger run under vacuum conditions

The team achieved the unthinkable by being the first one in Europe to transport passengers in a hyperloop, a feat that was done only once before in the world.

TUM Hyperloop successfully performed the first passenger ride under vacuum conditions in July 2023, after 3 years of development and a record 10 months of construction of the test segment near Munich.



What's next?

The TUM Hyperloop Accelerator brings technology and passenger testing to new lengths. The test track of around one kilometer in length will provide a platform to certify all key elements required for future hyperloop operations.





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more and talk
to our team**



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