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The Hyperloop as a Source of Interesting Estimation Questions

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The Hyperloop is a conceptual high speed transportation system proposed by Elon Musk. The basic idea uses passenger capsules inside a reduced pressure tube. Even though the actual physics of dynamic air flow in a confined space can be complicated, there are a multitude estimation problems that can be addressed. These back-of-the-envelope questions can be approximated by physicists of all levels as well as the general public and serve as a great example of the fundamental aspects of physics.