**HYPERLOOP TRANSPORTATION**

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**ABSTRACT**

High speed transportation is a growing concern to develop high speed rails and to increase high speed efficiencies the concept of hyperloop was introduced. The conventional modes of transportation consist of four types i.e. rail, road, air, water. These modes of transportation may be expensive, slow or combination of both. The challenges to overcome difficulties of managing friction and air resistance which becomes substantial when vehicles approach high speeds. Hyperloop is considered to be the **5th mode of transportation**. Hyperloop is a proposed mode of passengers and freight transportation that propels a capsule like vehicle through a near-vacuum tube at more than airline speed, approaching sound speed in a partially evacuated tube using electromagnetic propulsion system. The pods would accelerate to cruising speed gradually using linear electric motor and glide above their tracks using passive magnetic levitation.