

TiHAN: First Autonomous Navigation Facility

Why in News?

Ministry of Science & Technology has inaugurated <u>"Technology Innovation Hub on Autonomous Navigation" or TiHAN</u>, in IIT- Hyderabad, which is a first **"Autonomous Navigation" facility.**

It is seen as one of the steps toward India's vision of <u>'Atmanibhar Bharat', 'Skill India'</u> and <u>'Digital India'</u>.

What is TiHAN?

- It is a **multidisciplinary initiative**, which aims at making India a global player in the futuristic and next-generation **"Smart Mobility" technology.**
- The multi-departmental initiative includes researchers from electrical, computer science, mechanical and aerospace, civil, mathematics.
- At present, there is no such testbed facility in India to evaluate the autonomous navigation of vehicles. Therefore, it is envisioned to address this gap by developing a fully functional and exemplary testbed facility dedicated to Connected Autonomous Vehicles (CAVs).
 - Connected vehicles use technology to either communicate with each other, connect with traffic signals, signs, and other road items, or obtain data from a cloud. This information exchange helps with safety and improves traffic flow.

What is the Significance of this Step?

- It will provide a unique platform for high quality research between academia, industry and R&D labs both at the national and international level, thus making India a global leader in autonomous navigation technologies.
- India's mobility sector is one of the world's largest markets and the TiHAN IITH will be the source of futuristic technology generation for autonomous vehicles.
- The TiHAN-IITH testbed on Autonomous Navigations (Aerial & Terrestrial) will allow us to test the next generation autonomous navigation technologies accurately and allow faster technology development and global market penetration.

Source: MINT

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