

## TECHNOLOGY DEVELOPMENT PROGRAM SMART CITIES AND SOCIETIES

### TH-Code

Documentation of buildings & trees in the university campuses using unique universal code /TH-CODE in 1-m accuracy



#### Issue Being Addressed

- ▶ Maps Location: Inaccurate, with up to 20-meter errors
- ▶ Latitude & longitude: Precise but underutilized due to user inconvenience

#### Key Feature of the Technology/Product /App Which is Being Developed

- ▶ Alphanumeric coordinates: TH-CODE converts lat & long for precise location
- ▶ Capable of 1-meter accurate destination mapping
- ▶ TH-Code app: Integrated with google maps, available on android devices

#### CPS Relevance

- ▶ The technology is focused on getting more accurate TH Codes for the recorded locations & the application will implement AI

#### Impact & Benefits

- ▶ This technology enables the accurate location of plants in afforestation and carbon removal projects
- ▶ This empowers carbon removal companies to efficiently manage plantations, for environmental sustainability and positively impact society
- ▶ By accurately locating and monitoring each plant in afforestation and carbon removal projects, we enable better management and tracking

#### Team

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- ▶ Abdul Haleem, B.Com Honors
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#### Targeted Customers & End Users

- ▶ General users: seeking precise locations and landmarks for personal use
- ▶ Transportation companies
- ▶ Navigation apps
- ▶ Afforestation (Govt.) and carbon removal companies
- ▶ Plantations

#### Commercialization Status

- ▶ Prototype developed
- ▶ Filed a patent application
- ▶ App is available on Google play store