National Institute of Urban Affairs | Ministry of Housing and Urban Affairs, Government of India | giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

CITIES FORUM | Smart City MISSION TRANSFORMATION | german cooperation DEUTSCHE ZUSAMMENARBEIT | Green Urban Mobility Partnership

Phase I Finalists

After a rigorous selection process, 11 ideas were shortlisted to progress further in the Challenge. Phase II of the Challenge involves coordinating with partner cities, liaising with stakeholders, acquiring data and developing final solutions
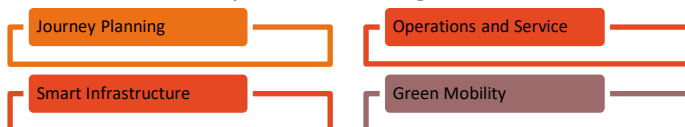
The Shortlisting Process

A comprehensive evaluation framework was formulated for the purpose of evaluating the concept notes. 26 concept notes were identified on the basis of average marks awarded by at least two industry experts. Each of these notes were then studied by an internal committee and evaluated subjectively.

On 15 February 2021, 15 of these submissions were further selected for a round of presentation. Each team was given a chance to present their ideas in a 10-minute session involving extensive questioning by the internal panelists.

After an internal round of evaluation and consultations, a total of 10 teams were then selected to proceed into Phase 2 of the challenge on 20 February.

The Selected Categories

The 11 ideas selected represent the following themes:

- Journey Planning
- Operations and Service
- Smart Infrastructure
- Green Mobility

The Phase II Kickstarter

Phase II was launched through a Kickstarter Session on 26 February. The hour-long event was moderated by Mr Shailendra Kaushik and included Mr Rahul Kapoor, Director, Smart Cities Mission and Mr Juergen Baumann, Program Director, SMART-SUT, GIZ, as keynote speakers.

Mr Rahul Kapoor, Director, SCM at the Kickstarter Session for SMART move

Mr Rahul Kapoor
Director - Smart City Mission

Mr Shailendra Kaushik
Co-Founder - Cities Forum

Mr Juergen Baumann
Program Director – SMART-SUT

Mr Laghu Parashar
Deputy Program Director - SMART – SUT

Ms Nabamalika Joardar
Fellowship Manager - NIUA

DataSpace / Mobility
The DataSpace Team

Speakers at the Kickstarter Session for SMART move, Phase II

The Quotes

Real innovation, co-creation, collaboration happens when you create enabling platforms that allows ecosystem stakeholders to solve the more contextual challenges. SMART move is such a platform - Rahul Kapoor, Director, Smart Cities Mission, MoHUA

Mobility and urban transportation is the most pressing problem today. The SMART move Innovation Challenge is formed solely to solve this issue – Hitesh Vaidya, Director, NIUA
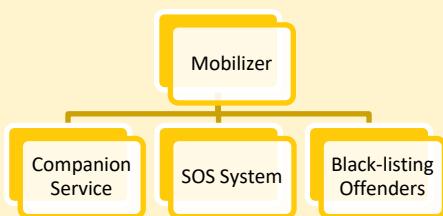
COVID-19 has had to redefine travel protocols across all modes. The SMART move challengers have kept the transformation brought about the global pandemic, in mind while developing their ideas – Nabamalika Joardar, Fellowship Manager, NIUA

What is promising about SMART move is that it looks beyond legacy approaches of improving transport system's efficiency:– Ankit Rai, Senior Associate, NIUA
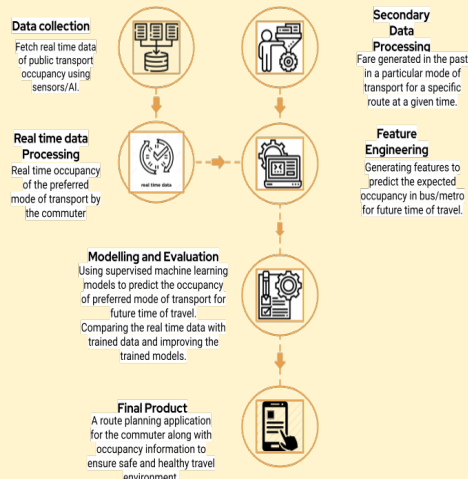
Idea Profiles: Theme - Journey Planning

Mobilizer
Harish Natarajan, Kumar Jois, Sumedh Joshi

Mobilizer → Companion Service | SOS System | Black-listing Offenders

Mobilizer is a digital mobility platform where users can book public transportation tickets. Citizens can register on this app with an Aadhar Card and avail its services. For achieving gender safety, they will implement a companion service, wherein people travelling at odd times can meet and travel together. This will help women and children travelling alone to form small groups and travel safely. The app will have an integrated SOS system, through which users can immediately alert the police or ask nearby users for help. Offenders will be flagged and subsequently not allowed to use the app for public transport.
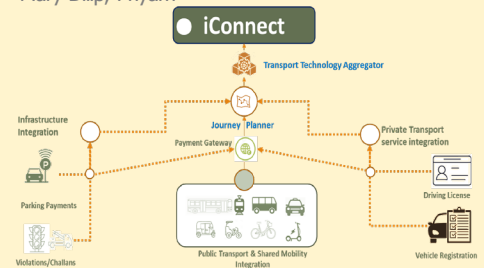
Commutify
Indian Institute of Technology, Roorkee
Arpit Shrivastava, Prof. Amit Agarwal, Devesh Pratap Singh, Itisha Jain

Data collection — Fetch real time data of public transport occupancy using sensors/AI.

Real time data Processing — Real time occupancy of the preferred mode of transport by the commuter

Secondary Data Processing — Fare generated in the past in a particular mode of transport for a specific route at a given time.

Feature Engineering — Generating features to predict the expected occupancy in bus/metro for future time of travel.

Modelling and Evaluation — Using supervised machine learning models to predict the occupancy of preferred mode of transport for future time of travel. Comparing the real time data with trained data and improving the trained models.

Final Product — A route planning application for the commuter along with occupancy information to ensure safe and healthy travel environment.

iConnect
Utpal Deka, Dr. Sharat C. Pillalamarri, Dr. Deepthi Mary Dilip, Priyam

iConnect — Transport Technology Aggregator | Infrastructure Integration | Journey Planner | Private Transport service integration | Parking Payments | Payment Gateway | Driving License | Violations/Challans | Public Transport & Shared Mobility Integration | Vehicle Registration

All-in-one user-friendly data-powered innovative Urban Mobility Management Platform that helps in:
- On-demand first/ last mile journey planner
- Discouraging personalized transport
- Traffic violations and penalties management
- Vehicle road-worthiness
- Real-time personalized dashboard
- Driving license & vehicle re-registration
- Parking availability check, booking & fee payment
- Electronic toll account