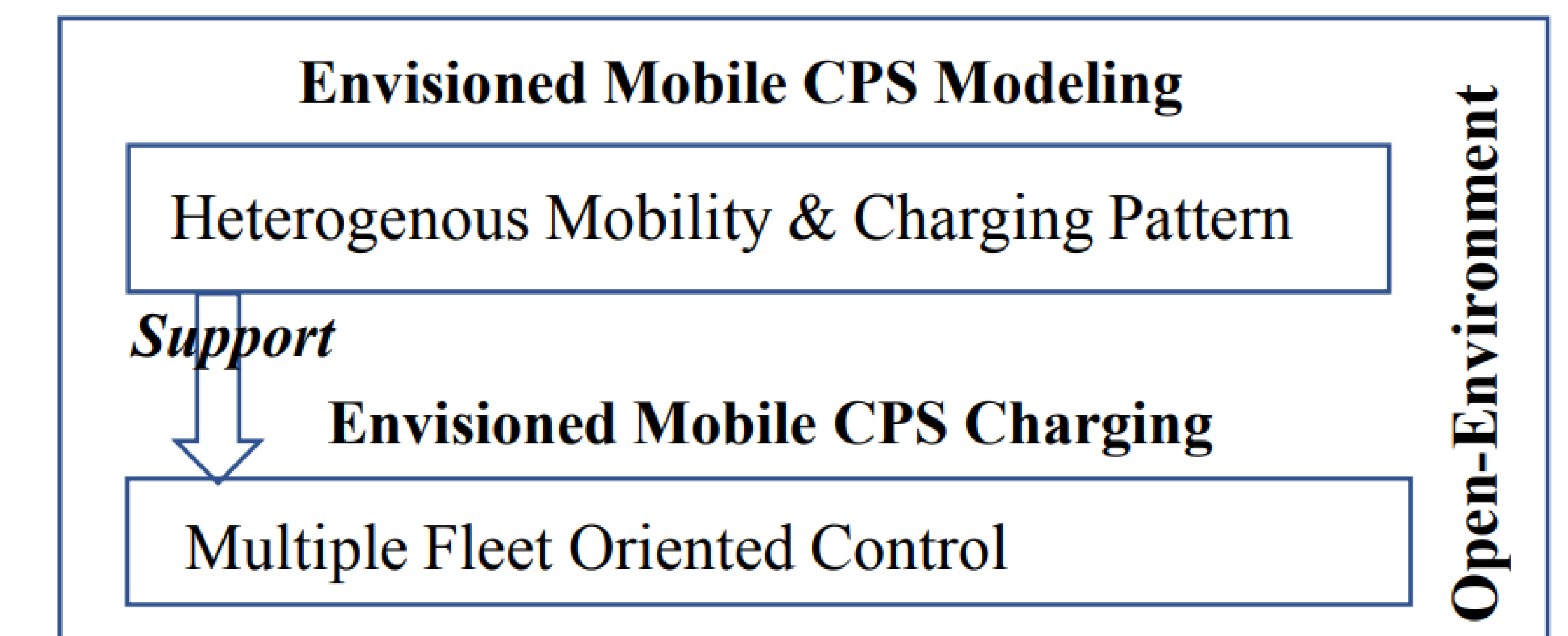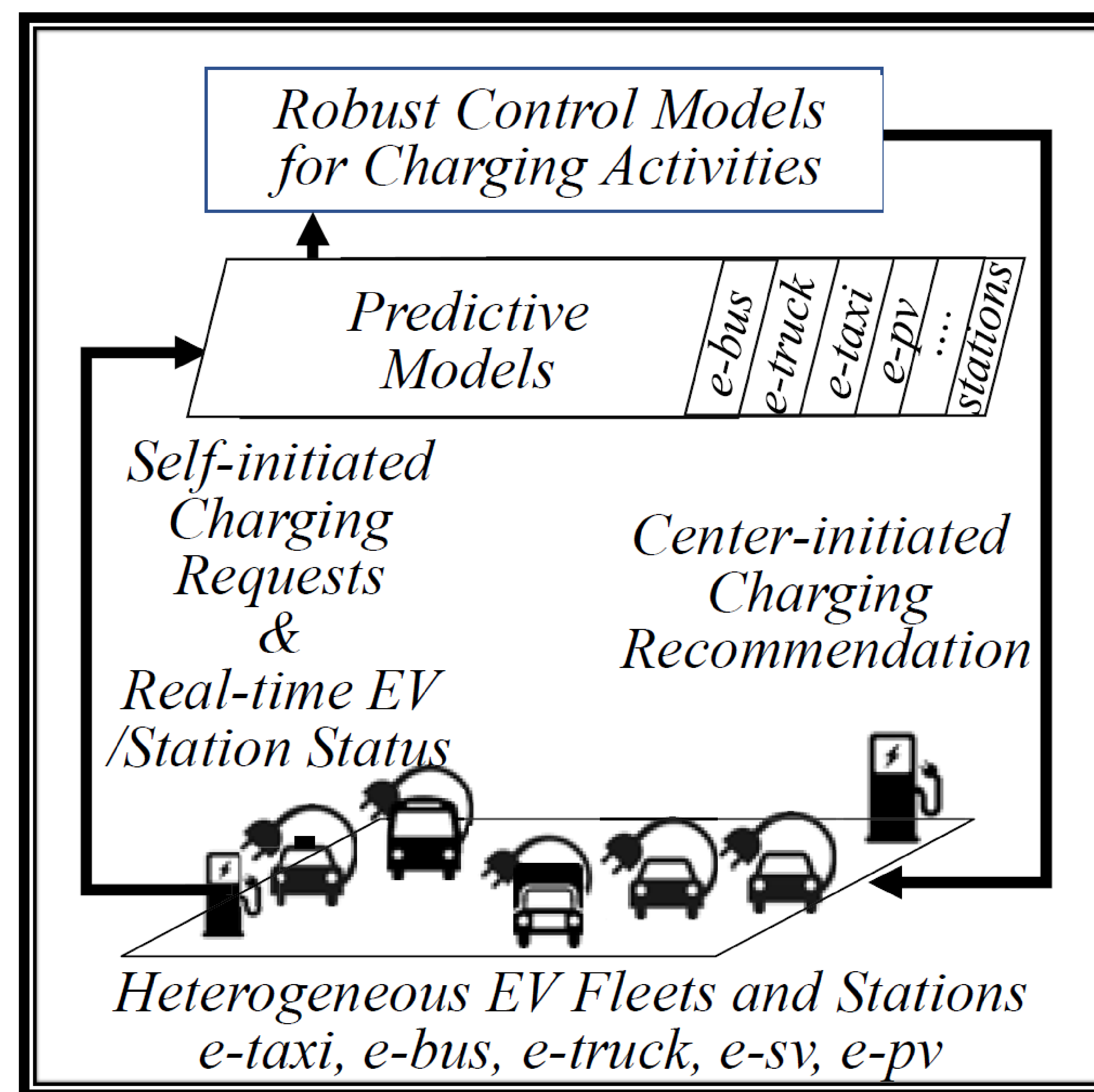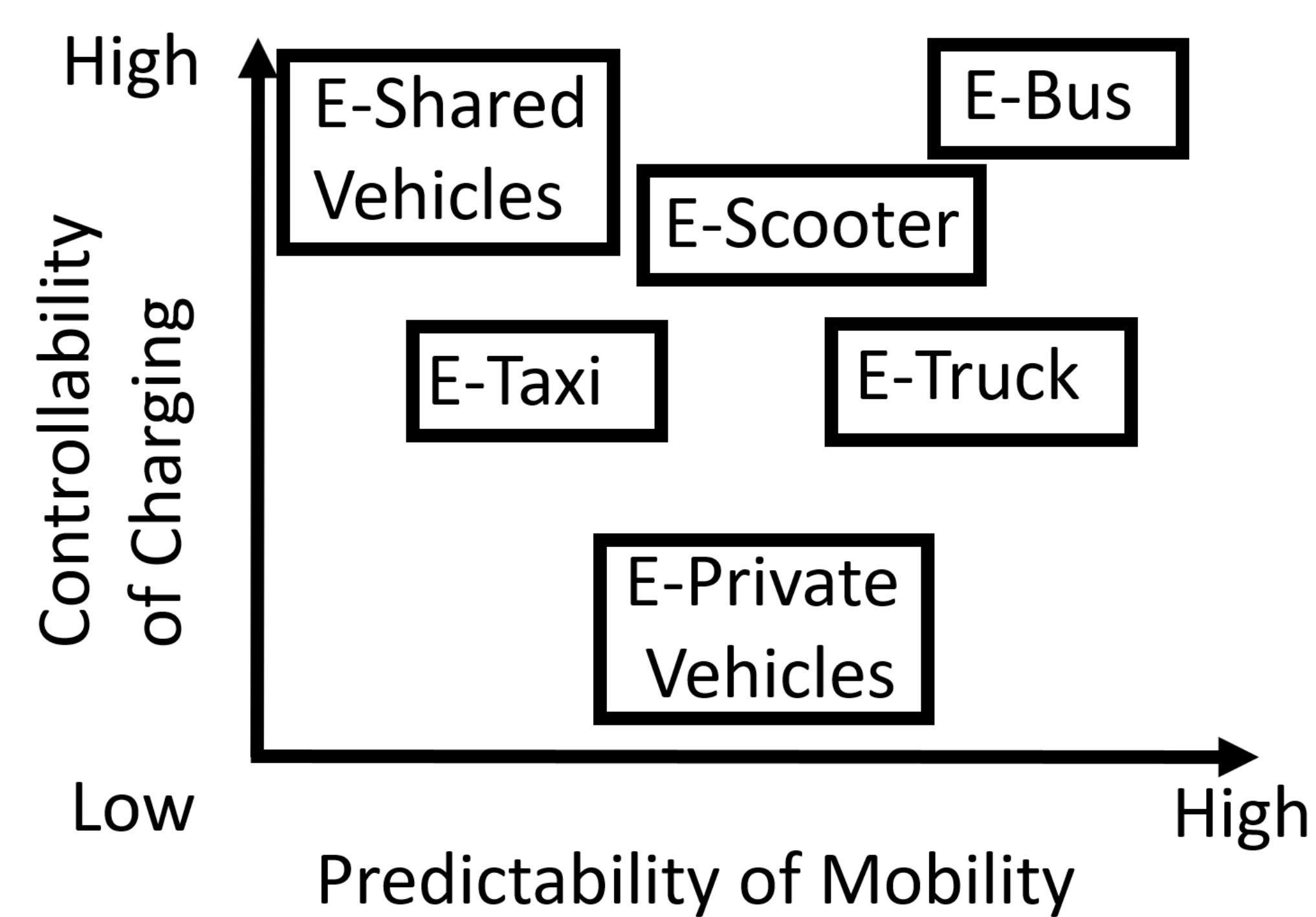# CPS: Small: Collaborative Research: Improving Efficiency of Electric Vehicle Fleets: A Data-Driven Control Framework for Heterogeneous Mobile CPS

Lead PI: Desheng Zhang, Rutgers University; PI: Fei Miao, University of Connecticut： CPS 1932223 & 1932250/2019-2022

Challenge: Managing Heterogeneous Mobile CPS for Charging and Dispatching

Envisioned Mobile CPS Modeling

Heterogenous Mobility & Charging Pattern

Support

Envisioned Mobile CPS Charging

Multiple Fleet Oriented Control

Open-Environment

Stakeholder Engagement
- Working with EV Managers of Rutgers EV Fleet
- Collaborating with Escooter Company Veo in NJ for Potential Technology Transfer

Education and Outreach
- K-12: Two High School Students
- Female: Support One Female PHD
- Minority: 2 REU Students

Research Impact for Community
- Releasing 5 GB of EV Data and Models
- Publishing 10 Research Papers
- Best Paper Nomination (ICCPS'21)