2022 Strengthening Mobility and Revolutionizing Transportation (SMART) Grant

February, 2023

CITY OF CLEVELAND

Mayor Justin M. Bibb

2022 Strengthening Mobility and Revolutionizing Transportation (SMART) Grant

- **New funding opportunity established by BIL/IIJA**
  - $100 million annually for FY2022-2026
  - Provides grants to eligible public sector agencies to conduct demonstration projects focused on advanced smart community technologies and systems in order to improve transportation **efficiency** and **safety**
- **SMART is divided into two stages**
  - Stage 1: Planning and Prototyping
  - Stage 2: Implementation
  - Only recipients of Stage 1 grants will be eligible for Stage 2 grants
- **SMART targets projects demonstrating:**
  - Coordinated automation, connected vehicles, sensors, systems integration, delivery/logistics, innovative aviation, smart grid, traffic signals

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2022 SMART Stage 1 Proposal

- **Cleveland Complete Corridor Project**
  - Design and prototype an intelligent, cloud-based adaptive traffic signal system that provides next-generation transit and emergency vehicle priority based on cellular-based AVL technology
  - Incorporate optical sensor-based bicycle and pedestrian detection and near-crash identification
  - Use existing AVL and cellular communication hardware on vehicles
  - Facilitate dynamic signal phasing to benefit multimodal users and increase safety
  - Create generic smart signal specifications that can be installed throughout the city and in other jurisdictions to increase mobility equity through improved multimodal safety and efficient, reliable transit.
  - Supports transit riders, walkers, and bike riders; Vision Zero objectives; and specs for future capital projects
- **Applicant team**
  - Cleveland State University
  - Greater Cleveland Regional Transit Authority
  - City of Cleveland

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2022 SMART Stage 1 Proposal

- **Funding request: $1,820,500 for planning and prototyping**
  - Traffic signal upgrades (networking and receivers)
  - Optical intersection sensors
  - Necessary software
  - CSU faculty expertise
  - Performance reporting and evaluation
- **Pilot Location(s)**
  - 1-2 corridors with frequent transit service, identified safety issues, notable bicycle and pedestrian demand, and frequent usage by emergency vehicles
  - Final pilot locations will be confirmed based on the status of relevant capital projects when the pilot commences and updated community data.
  - Preliminary pilot locations:
    - West 25th Street from Detroit Avenue to MetroHealth Drive
    - Kinsman Avenue from East 75th Street to East 140th Street
- **Decisions from US DOT are anticipated in the first half of 2023**

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Questions?

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