Developing Transit Livability Dashboard
FTA Project Title:
“Development of Transit Livability Assessment Tool”

Objectives:
1. Develop Measurable Livability Evaluation Tool
2. Assist FTA in gauging the effectiveness of federal transit livability efforts in rural America
Catalog Potential Measures for Livability
Create a data collection Plan
Develop Livability Index Database
Develop Livability Index Scores
Develop Livability Index Dashboard
Demonstration
Catalog Potential Measures

- TCRP Report 22: Role of Transit Creating Livable Metro Communities
- Livability In Transportation Guidebook
- Role of FHWA Programs in Livability
- EPA Guide to Sustainable Transportation Performance Measures
Catalog Potential Measures

- Urban Livability Measures
  - Definition of Urban Livability

- Rural Livability Measures
  - Definition of Rural Livability

- Realistic Livability Measures
  - Based on measures AND available data
Create an annual data plan
  - Continuous measures for livability evaluations
Based on Nationally available data
  - Census
  - Parcel data
Develop partnerships with Other Federal and State Data Stakeholders
  - USDA
  - USGS
Data Collection Plan

- **Transit Data**

  - **Transit System Data**
    - Route Alignments
    - Stop Locations
    - Schedule Data

  - **Transit Performance Data**
    - Ridership
    - On-time performance
    - Access to jobs
Data Collection Plan

- Environmental/Socio-demographic data
  - Socio-Demographic Data
    - Population
    - Income
    - Worker Population
  - Environmental Data
    - Sidewalk connectivity
    - Amenities
    - Land-Use
Develop Livability Database

- Relational Database to store, manage and share the livability database
  - NYSDOT 511 System
  - Open Trip Planner
Develop Livability Scores

- Based on Data
  - National Scale
  - Regional Scale
  - Local Scale
- Quantifying Livability
  - Index based on variety of indices and variables
Defining and Identifying Livability Typologies

- How is typology defined?
  - Data driven
  - User driven
  - Geographically Driven
Data Driven

Criteria for identifying Urban and Rural Typologies

- Population Densities
- Employment Densities
- Street and intersection densities
- Commute Shed
Quantifying Livability

- **User Driven**
  - Provide user of system with preferences
    - Measure my community for its livability
      - Select Urban or Rural community type for where you live

- **Hybrid**
  - Provide a suggestion based on Data
Quantifying Livability

- Geographically Driven
  - Scale Typologies
    - National
    - Statewide
    - Regional
    - City
    - Community
Develop Livability Dashboard
Livability Dashboard

- Access to Transit
  - Bar chart showing population, trip ends, employment, and res. parcels.
- Accessibility via Transit
  - Line graph showing accessibility up to 60 minutes.

Parking: None
Bike Parking: None
Carsharing: Available more.

- Residential 45%
- Commercial 10%
- Service 45%
Demonstration

- Test the measures and applicability
  - Select locations based on TTI and Portland Recommendation
  - Locations throughout NYS
    - 511 system has statewide transit data
Questions?

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