Developing Transit Livability Dashboard

Project and Objectives

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

Project Tasks

- 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

Develop Data Collection Plan

- 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

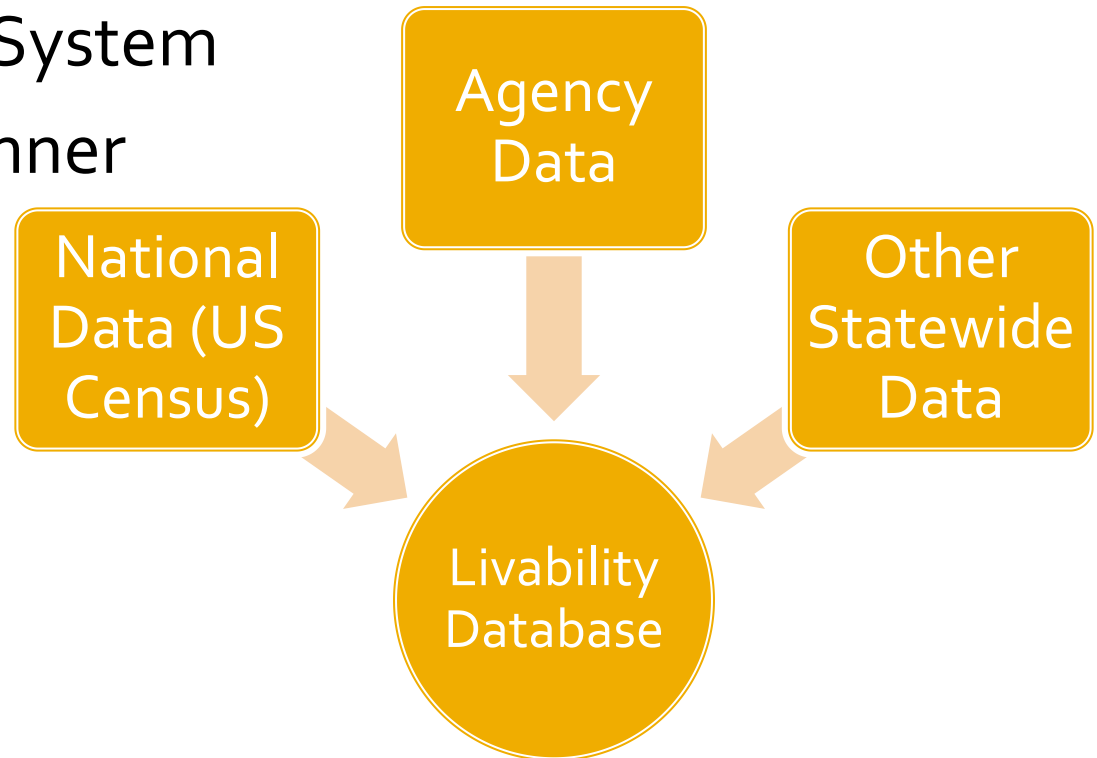| Socio-Demographic Data	• Population • Income • Worker Population
Environmental Data	• Sidewalk connectivity • Amenities • Land-Use

Develop Livability Database

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

Agency Data

National Data (US Census)

Other Statewide Data

Livability Database

Develop Livability Scores

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

Quantifying LIvability

- Defining and Identifying Livability Typologies
  - How is typology defined?
    - Data driven
    - User driven
    - Geographically Driven

Quantifying Livability

- Data Driven
  - Criteria for identifying Urban and Rural Typologies
    - Population Densities
    - Employment Densities
    - Street and intersection densities
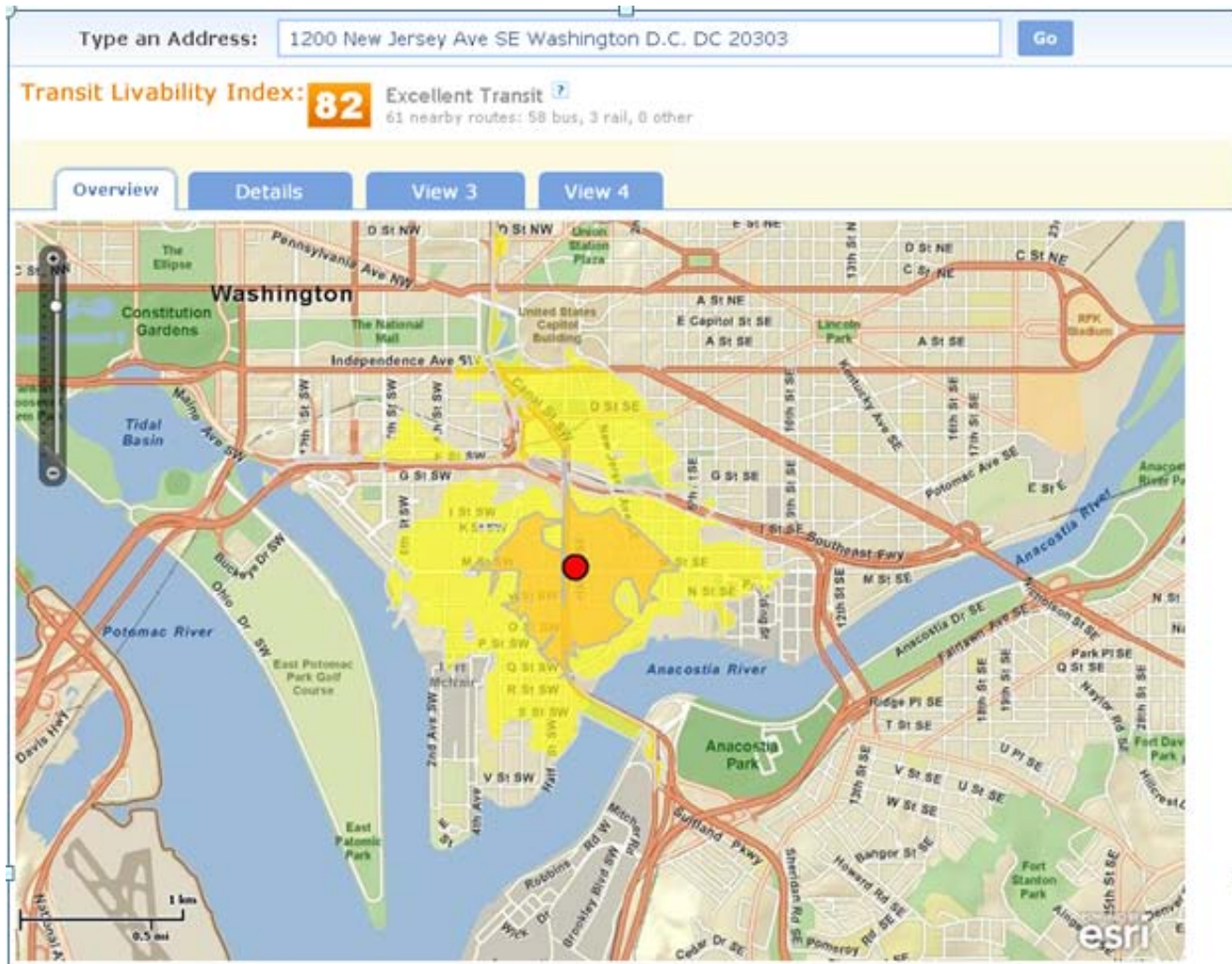   - Commute Shed

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
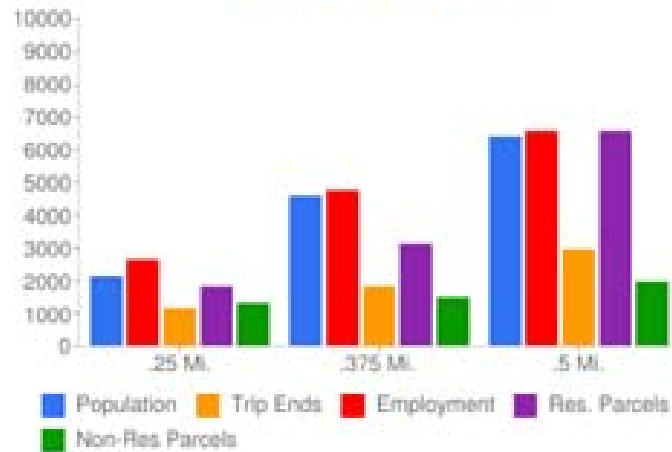
Quantifying Livability

- **Geographically Driven**
  - **Scale Typologies**
    - National
    - Statewide
    - Regional
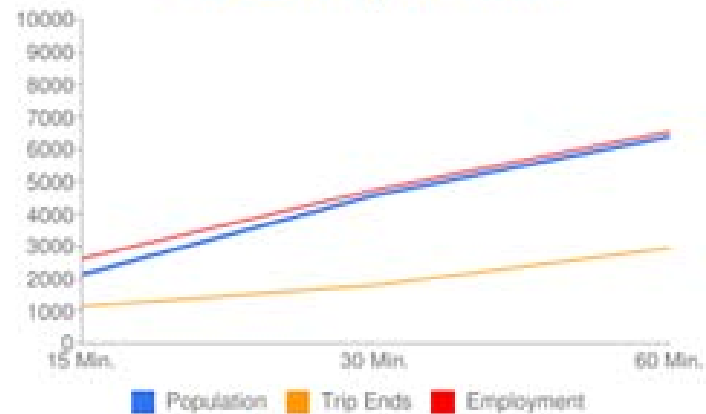   - City
    - Community

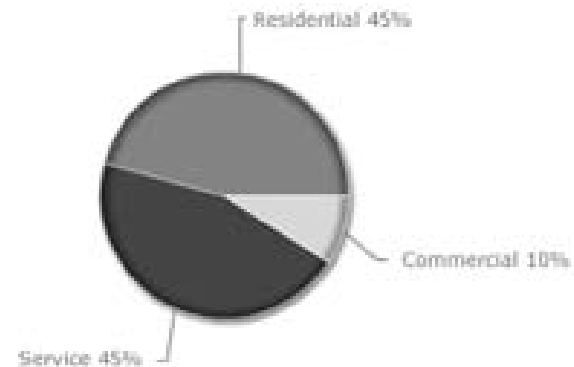# Develop Livability Dashboard

Livability Dashboard

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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