City Innovate Foundation

Helping cities solve challenges with open innovation & data
Mission

Solving urban problems using open innovation and data

➢ We aim to help city leaders explore new technologies to solve urban challenges, and **procure the right solutions** based on the needs of citizens.

➢ By facilitating cross-sectoral conversations prior to an RFP process, we hope to create **new channels** for city agencies to learn, while minimizing the risk of adopting an inadequate solution.

➢ Once city agencies implement the right solutions, they will be **better equipped** to make evidence-based planning & policy decisions, ultimately saving departments time and resources.
The Challenge
Increases in population are expected to continue in New York City, Long Island, and the lower Hudson Valley through 2050…¹

…but critical, regional government infrastructure like roads and public transit are already suffering

Source: NYMTC 2050- Socioeconomic and Demographic (SED) Forecast, 2015.
Regional transportation planning & policy challenges include:

• How to maintain a consistent quality of service across an expanding geographical scope and with increasing ridership demands

• How to explore ways of working together with private transit operators that offer shared mobility options to improve mobility for all

• How to gather, analyze and apply data to understanding complex problems like delays and crowding
Technology & data

are helping us make better-informed decisions…
But technology & data alone are not enough to solve our challenges.
we need to change the way we think & work
Our Vision
Facilitate the sharing of knowledge across & between public, academic, nonprofit, private sectors...
to enable city agencies to make better-informed planning and policy decisions, based on data.
How do we get there?
Collider Program

Process, Structure, & Outcomes
Collider Program: Process

- Local gov’t agency procures new technology
- City Innovate researches & recruits experts for a Collider
- Agency & experts work together to build trust and solve problems

Integrate into Legacy Systems
Collide Define Agency Problem
Identify best practices, apply data thinking and build solution
Collider Program: Structure

2 topic-specific workshop series titled “Sprints” = 6 months:

Sprint 1: Build Data Collaborative
- Workshop 1: Problem framing
- Workshop 2: Identify relevant data stakeholders
- Workshop 3: Solve problem through challenge
- Workshop 4: Designing a collaborative

Sprint 2: Identify Policy, Legal & Technology Challenges
- Workshop 1: Technology Solutions
- Workshop 2: Legal Issues
- Workshop 3: Policy Challenges
- Workshop 4: Procurement & Workstreams
Collider Program: Outcomes

1. Data Collaborative
   A secure & private depository for data from different sectors managed by a neutral 3rd party = Data Collaborative

2. Data analytics pilot project
   Addressing a specific problem statement identified by the gov’t agency = Impact

3. Innovation Playbook
   Documentation of research, exercises, lessons learned and action items from the Collider = Best Practice
Collider Program: Outcomes

1. Data Collaborative
2. Pilot project
3. Innovation Playbook

= IMPACT

= BEST PRACTICE
Miami-Dade County
Department of Transportation & Public Works

The Challenge

- Increasing population
- Increasing road congestion
- Decreasing ridership of public transit
- Difficulty maintaining service quality

The Opportunity

Legacy upgrade of transportation ticketing system
- Create a multimodal mobility network
- Cut down on single-occupancy vehicle trips
- Serve the travel needs of more citizens

The Recruited Experts

- Cubic
- Microsoft
- Siemens
- University of California, Davis
- Passport
- Habidatum
- Lyft
- Neighborland
- Swiftly
- Mastercard
- National Institute of Standards and Technology
Outcomes and learnings for Miami-Dade County so far include:

- Improved communication between the DTPW and procurement partners
- An understanding of how to work with regional and private transit operators
- New methods of working with the community
- Prioritization of training staff to apply insights from data to real problems