Feature Presentation

Trenton Moves:

Autonomous Vehicle-Based Urban Transit System Project

Assistant Commissioner TOSS Andrew Tunnard

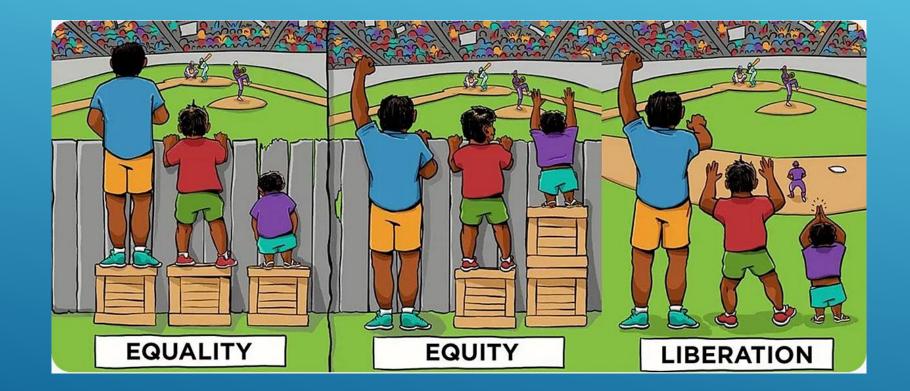
TRENTON MOVES (MOBILITY & OPPORTUNITY: VEHICLES EQUITY SYSTEM)

Andrew J. Tunnard Assistant Commissioner, NJDOT

Presented at NJ STIC 1st Quarterly Meeting 2022 March 16, 2022

TRENTON MOVES

<u>Why</u>?





TRENTON MOVES

- <u>What</u>? Deploy a Safe, Equitable, Affordable, Sustainable, On-Demand Transportation System
- <u>Where</u>? Trenton and then.....
- <u>When</u>? Hopefully early 2024
- <u>Who</u>? Trenton City Government, Mercer County, State (Governor's office & NJDOT), Princeton University

THE HOW

1. Create a Welcoming Environment	2. Entice technology companies to "Come Play"	3. Up-front / "Infrastructure" Funding
 Create a Vision in the communities/neighborh oods Build and foster support at the local level 	 Form a PPP Private: Contributes IP, expertise and technology/vehicles Public: Ensures objectives are achieved. Esp. Equity, Safety & High-quality + Ensures affordability 	 Start-up \$\$\$ Operations Centers Kiosks Curb/Road Improvement Acclimation of Vehicles & Customers

1. Create a Welcoming Environment

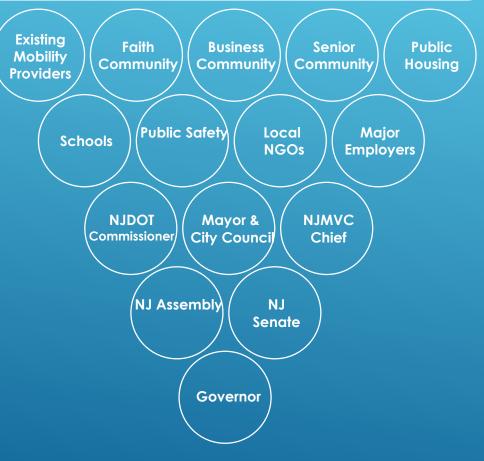
2. Entice/select a feasible technology company

3. Up-front / "Infrastructure" Funding

90,000 RESIDENTS OF TRENTON, NJ

50 KIOSK NEIGHBORHOODS





1. Create a Welcoming Environment

2. Entice/select a feasible technology company

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Direct Community Engagement

90,000 RESIDENTS OF TRENTON, NJ

Public Housing



Senior Community

50 KIOSK NEIGHBORHOODS





Schools



Community Canvassing

1. Create a Welcoming **Environment**

2. Entice/select a feasible technology company

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Enthusiastic Government Support

Governor Phil Murphy Murphy Administration Announces RFEI for Project to Create the First Autonomous Vehicle-Based Urban **Transit System in America** 12/6/2021 TRENTON - Governor Phil Murphy and New Jersey Department of Transportation (NJDOT) Commissioner Diane Gutierrez-Scaccetti today announced an Request for Expressions of Interest (RFEI) for the Trenton Mobility & Opportunity: Vehicles Equity System (MOVES) Project. Trenton MOVES will act to provide safe, equitable, affordable, and sustainable high-quality mobility through the deployment of 100 Autonomous Vehicles (AVs) throughout the state capital. This on-demand automated transit system will serve 90.000 residents of Trenton. "Since taking office, we have worked relentlessly towards making New Jersey the innovation center of America," said Governor Murphy. "There is perhaps no initiative that embodies this goal more than the Trenton MOVES project, which will attract tech talent from around the country and the world with the mission of creating an autonomous vehicle-based transit system in our Capitol that will provide a new, affordable transportation solution for underserved areas of Trenton. This is an exciting project with immense potential and I look forward to the day that the first vehicle hits the road."

"Mobility is about equity and access to opportunity," said New Jersey Department of Transportation Commissioner Diane Gutierrez-Scaccetti. "Trenton MOVES represents an opportunity to utilize innovation to sustainably improve the quality of life of the mobility-constrained in many of our cities. By starting in Trenton, we will have the opportunity to work with a close and effective partner; ultimately our vision is that this effort will ideally scale throughout the state and the region".

 Trenton MOVES, Governor Murphy Press Release, Dec 2021

► Trenton MOVES, Planned



✓ Create a Welcoming Environment

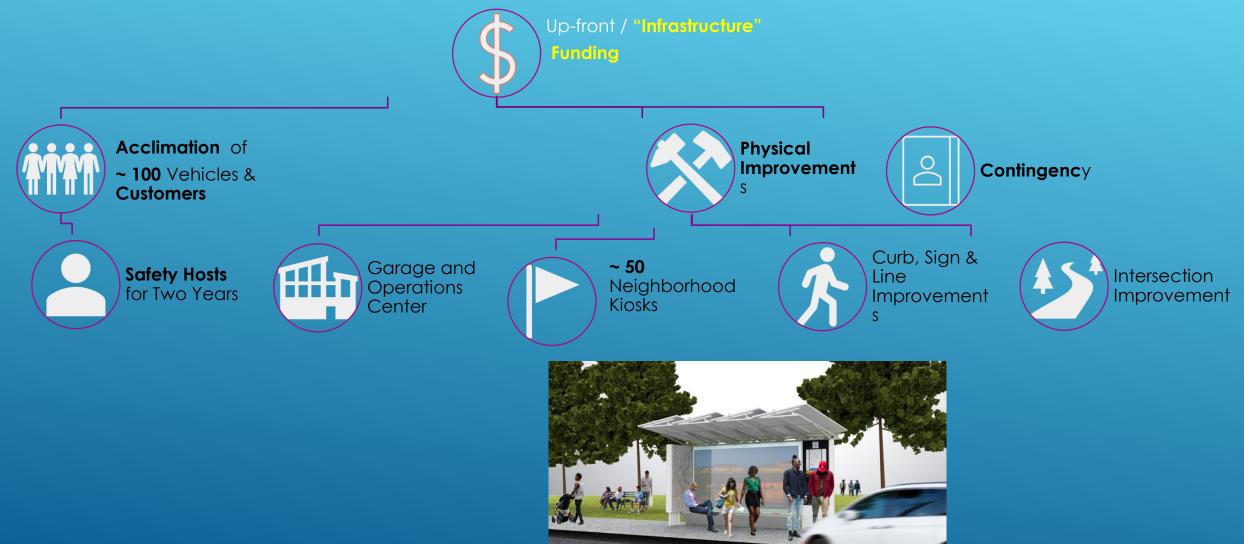
2. Entice a feasible technology company to "Come Play"

Select, through a competitive procurement process, a capable tech entity to form a PPP, where

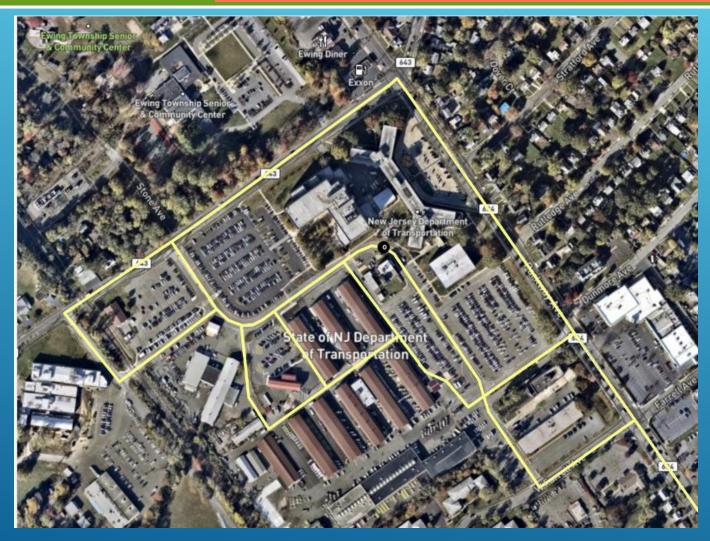
- **P**rivate: Contributes their IP, expertise and technology that is:
 - <u>Safe</u>
 - High-quality (on-demand, 12/7/350 that can evolve to 24/7/350)
 - Affordable (Low Cost of production)
 - <u>Sustainable</u> (EV, ride-share, ...)
- Public: Partners with Private to formulate an ODD, Service & Pricing Plan that achieves:
 - Equity (Mobility for All)
 - Affordability (Low Pricing where need be, Market Pricing elsewhere)
 - <u>Sustainability</u> (Shared-riding wherever/whenever feasible)

✓ Create a Welcoming Environment

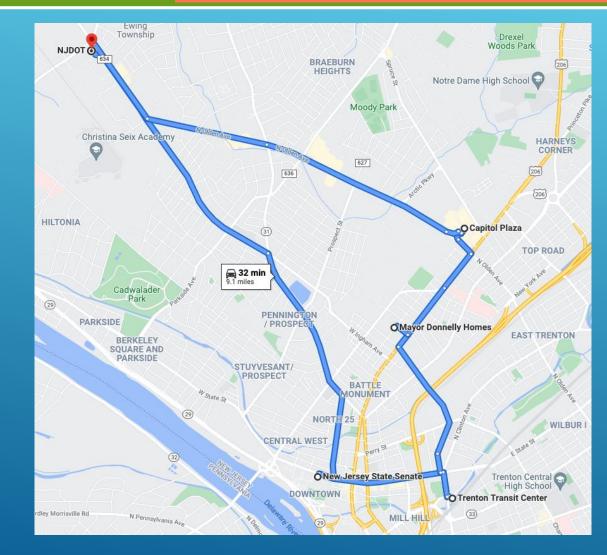
 Entice/select a feasible technology company 3. Up-front / "Infrastructure" Funding



PHASE I.O NJ DOT HQ: Verification of Concept



PHASE I.1 Initial Pilot ODD: Proof of Concept



PHASE I.2 Trenton Area ODD: Proof of Societal Value



PHASE IV Replication Throughut NJ: Proof of Network-Scale Economics



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THANK YOU!