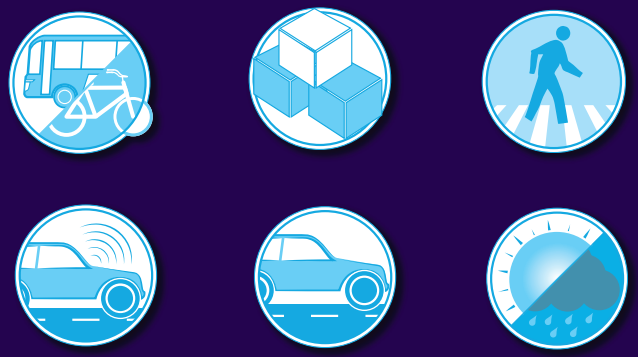

TAMPA BAY SMART CITIES ALLIANCE

Winter Workshop

Regional Work Zone Data Exchange

February 5, 2024

FDOT District 7 - Auditorium

i2a ideas to action

Agenda

Item	Description	Duration	Lead
1	Welcome and Introduction	10	Alice Price
2	What is the WZDx and Why?	15	Alice Price
3	Agency Updates on Work Zone Management	30	ALL
4	Our Challenges and Goals	15	Alice Price
5	one.network demonstration and Suncoast Mobility Hub demonstration	45	Ben Waychoff and Justin Dennis
6	Suncoast Mobility Hub Data Sources & Brainstorming	45	Lee Woodcock
7	Actions and Next Steps	20	Alice Price

TAMPA BAY SMART CITIES ALLIANCE

IMPLEMENTATION STRATEGY 2018

		3 MONTHS	12 MONTHS	24 MONTHS	36 MONTHS	
THEME	DESCRIPTION	SAMPLE PROOF OF CONCEPT	SAMPLE PROJECT	SAMPLE PROJECT	SAMPLE PROJECT	VISION
Mobility as a Service	Building on local efforts, Mobility as a Service (MaaS) brings every kind of transportation together into a single intuitive mobile app. It seamlessly combines transportation options from different providers, handling everything from travel planning to payments	The first MaaS solution will be based in one geographic area, such as USF or one of our [illegible] of solutions based on the outcomes of the i2a workshop	Develop business case, funding and full commercial strategy together with a RFP based on the learnings on the Proof of Concept	Secure supplier and extend the MaaS solution across the region building on the foundations of the USF pilot [illegible]	Introduce a one account payment system that is inter-operable with all partner modes and enables for flow of money based on mode use	To provide a MaaS solution citizens and visitors for the Tampa region, it will include a one account type payment solution and be open and inclusive of all modes of transportation both public and private
Data Platform	The fusion and analysis of data from across the region brought together in one platform to enable the maximum amount of insight to be collected and shared among all participating agencies	Introduce a cloud based data platform that is focused on road and transit data sets [illegible]	Develop business case, funding and full commercial strategy together with a RFP based on the Proof of Concept	Secure supplier and transition the proof of concept to the new platform and extend [illegible]	Introduce private sector data sets through new collaborative agreements enabling use of less physical sensors on the network	To use 'big data' to optimize mobility movement across the region, inform our future planning strategies and drive efficiency savings
Re-imagining Infrastructure	Applying the benefits of technology and innovation to our existing infrastructure in bold and creative ways to improve lives, improve [illegible], promote resilience, and increase efficiency.	Build on the Tampa Connected Vehicle Pilot by THEA by expanding further into the Tampa [illegible]	Develop a series of users cases for CV/AV solutions that cover air, land and sea in order to design a [illegible] app [illegible]	Run a global competition to attract the worlds leading CV/AV companies to Tampa to address the [illegible] economic growth	Develop a ICM strategy and implement a CV enabled variable speed corridor that shares data [illegible] CV platform	To be the world's leading urban lab for the deployment of connected and autonomous vehicle solutions that make a real difference to peoples lives

Mobility as a Service

Regional Data Platform

Re-imagining Infrastructure

*Proof of concept to be selected at July 2018 workshop by Action Teams.

Feedback from Early 2023

Transportation and Education

- GPS tracking of school buses so parents know where their children are during travel; (2 / 0)
- Working with transportation network companies' (Uber/Lyft) operators to introduce shuttles between neighborhoods and schools (2 / 0)
- Carpool to school programs (1 / 0)
- School dismissal solution for parents and teachers (i.e. Pikmykid) (0 / 0)
- Transportation at local colleges and universities (0 / 0)
- Integration of SunPass to be used for variably priced parking on university campuses (0 / 0)

Transportation and Healthcare

- Prepaid transportation network company (Uber/Lyft) trips for medical purposes (0 / 0)
- Development of clean transit initiatives to help improve air quality (2 / 0)
- Technology to reduce crash response times and improve health outcomes (5 / 0)
- Integration between appointment bookings and a transportation provider like Uber/Lyft, taxis, etc. (4 / 0)
- Technology to indicate real-time parking availability at hospitals and other institutions (2 / 0)

Transportation and Hospitality Industry

- Introduction of 'pop up' local park and ride sites (micro mobility) (0 / 0)
- Introduction of 'pop up' regional park and ride sites (transit) for sports events (2 / 0)
- On-demand carpool or vanpool services for hotel workers (3 / 0)

Reimagining Infrastructure

- Video analytics for multimodal safety countermeasures (4 / 1)
- Innovative Intersection Designs (5 / 0)
- Ramp Metering (4 / 0)
- What 5G can mean to smart cities (0 / 1)
- Connected Automated Vehicles and Automated Vehicle Guideways
  —
  Smart Street Lighting (2 / 0)
- Digital Bus Stop stations for ETA of buses (3 / 0)
- Vehicle occupancy validation via mobile phones using biometrics to discounting for higher occupancy vehicles on managed lanes or preferential parking

Regional Data Platform

- Hillsborough MPO data portal and analytical tool (Clearguide) (4 / 0)
- Inventory of data available from public agencies (3 / 0)
- Identifying areas of bike/ped near misses, not just crashes (4 / 0)

Smart Work Zones

- Work Zone Data Exchange (WZDx) standards (5 / 0)
- FDOT SafeTRIP Initiative (0 / 0)
- Vehicle occupancy tracking app to provide incentives for carpooling in work zones or taking alternate routes (1 / 0)
- Utilize predictive analytics to improve response times to crashes and outcomes (1 / 0)

Mobility-as-a-Service

- PRT & GRT - Personal & Group Rapid Transit (1 / 0)
- Regional trip planner (2 / 0)
- City of Tampa MaaS RFI
  —
  Integrating parking information and eventual real-time availability into MaaS to support broadest possible use of the MaaS app and provide mobility options to people who may never had considered them (3 / 0)
- Regional mobility-on-demand
  —
  Regional integrated payment system for all modes (9 / 0)
- Create a General Vanpool Data Specification to allow MaaS app to show vanpools with available seats in real-time for occasional riders
  —
  Add vanpool routes (3 / 1)

Smart Infrastructure for Resiliency

- Regional transit electrification study
  —
  Electric Bus (1 / 2)
- EV charging stations (3 / 0)
- Smart infrastructure for resiliency (3 / 0)

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