



111 Liberty Street, Suite 100 Columbus, Ohio 43215 morpc.org

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NOTICE OF A MEETING SMART REGION TASK FORCE MID-OHIO REGIONAL PLANNING COMMISSION 111 LIBERTY STREET, SUITE 100, COLUMBUS, OHIO 43215 SCIOTO CONFERENCE ROOM

July 9, 2019, 2:00 pm - 3:30 pm

AGENDA

- 1. Welcome Joe Stefanov, SRTF Vice Chair
- 2. Smart Region Updates Aaron Schill, MORPC
- 3. SmartColumbus Operating System Mackenzie King, Accenture; Mandy Bishop, City of Columbus
- 4. Work on Deliverables
 - a. Smart Streets Policy Status Update Discuss Local Adoption Joe Stefanov, SRTF Vice Chair
 - b. Smart Region Playbook Aaron Schill, MORPC
- 5. Other Business Joe Stefanov, SRTF Vice Chair
- 6. Adjourn Joe Stefanov, SRTF Vice Chair

Please notify Lynn Kaufman at 614-233-4189 or LKaufman@morpc.org to confirm your attendance for this meeting or if you require special assistance.

The next Smart Region Task Force meeting is September 10, 2019, 2:00 p.m. – 3:30 p.m.

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PARKING AND TRANSIT: When parking in MORPC's parking lot, please be sure to park in a MORPC visitor space or in a space marked with a yellow "M". Handicapped parking is available at the side of MORPC's building. MORPC is accessible by CBUS. The closest bus stop to MORPC is S. Front Street & W. Blenkner St. Buses

MORPČ is accessible by CBUS. The closest bus stop to MORPC is S. Front Street & W. Blenkner St. Buses that accommodate this stop are the Number 61 - Grove City, the Number 5 - West 5th Ave. /Refugee, and the Number 8 - Karl/S. High/Parsons. One electric vehicle charging station is available for MORPC guests.

William Murdock, AICP Executive Director Rory McGuiness Chair Karen J. Angelou Vice Chair Erik J. Janas Secretary



Smart Columbus Operating System

Mission & Vision Timeline, Roadmap Intro to Data Platform 2.0 Beyond the Tech Going Open Source

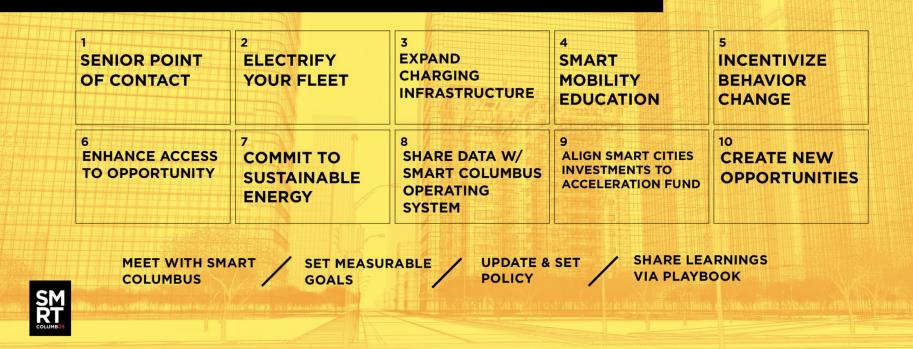
ACCELERATION PARTNER PROGRAM

IF YOU WANT TO GO FAR, GO TOGETHER



SMART COLUMBUS ACCELERATION PARTNER

Public Sector

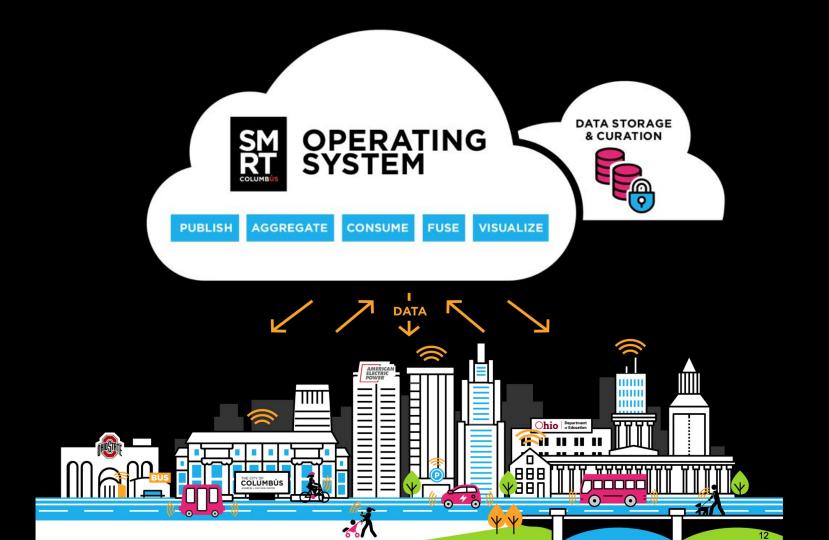






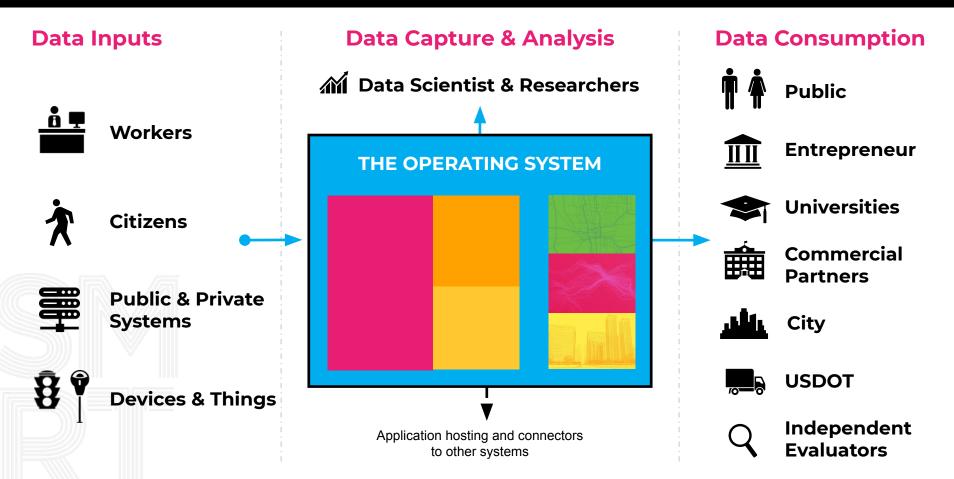
To demonstrate how an intelligent transportation system and equitable access to transportation can have positive impacts on everyday challenges faced by cities.



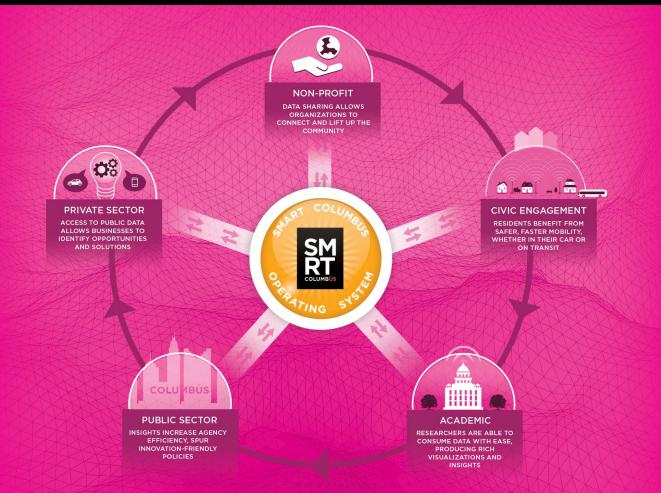




OPERATING SYSTEM BIG PICTURE



THE SMART COLUMBUS OPERATING SYSTEM

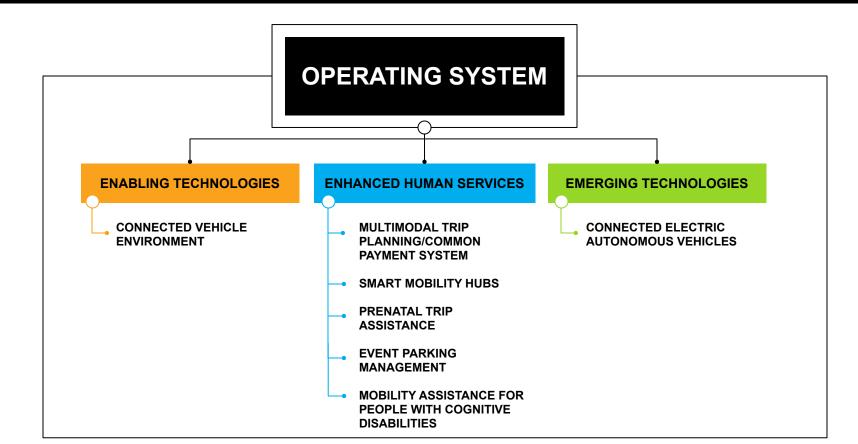




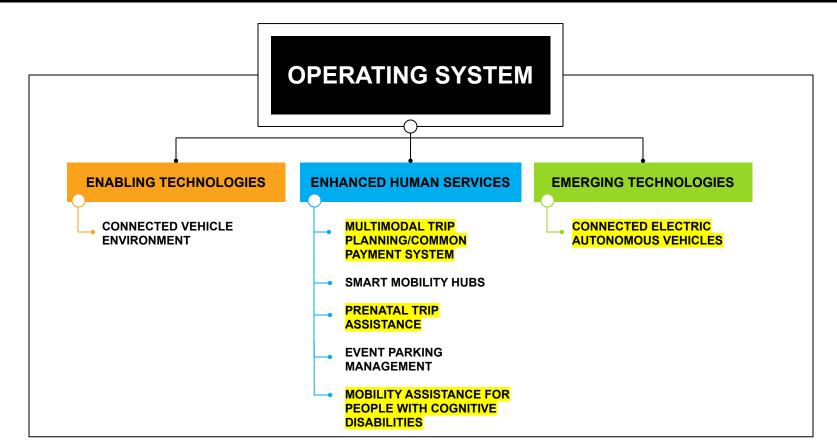


| SYSTEMS ENGINEERING | | | | | | |
|---------------------|--------------------------|-----------------------|------------------------|--------------------------|----------------------|-------------|
| | | | DEVELOP AND PROCURE | | | |
| | | | DE | PLOY, OPERATE AND MAINTA | AIN | SUSTA |
| | DATA COLLECTION/ANALYSIS | | | | | |
| s | OLICIT/VALIDATE USER | NEEDS ENGAGE STAKEH | IOLDERS/PUBLIC COMMU | INICATE PROGRESS/PARTICI | PATION OPPORTUNITIES | |
| GUST 016 | AUG 20 | | | | | ARCH 021 |

SM RT USDOT PROJECT PORTFOLIO











INSIDE OUR DATA PLATFORM 2.0



DATA PLATFORM 1.0

April 2018–April 2019

Data Storage +

DATA PLATFORM 2.0

April 2019–Future

Data Exchange

Data Storage

Pipeline Scalability

Flexible Interfaces for Discover & Use

Operational Efficiencies

Built using 'CKAN' platform

Built loosely-coupled, custom-designed microservices using Elixir programming language





- **Dataset Examples:** Traffic Characteristics, City Infrastructure Inventory, Crash Records, Weather Readings, Emergency Response Times, Food Services, Parking Locations, Health behaviors, Real-time Vehicle Location Feeds. (Select vehicle location dataset feeds stream in near-realtime)
- Formats: .CSV, .GeoJSON, .JSON (XML and Shape Files coming soon currently available as remote datasets)
- **Supports:** Use cases that solve distinctive challenges experienced in the Central Ohio region
- **Standardization:** Metadata is curated in compliance with Project Open Data standards, to maximize machine readability and utility



UNDERSTANDING USERS' NEEDS **PERSONAS**







PAIGE



EDDIE ENTREPRENEUR











EVITA PROJECT

NANCY

NONPROFIT







RACHEL

BUS RIDER

ALLAN ACADEMIC







2019_04_29





WHAT IS THE OS, WHAT GETS TRANSFERED?



SM Privacy & Data Management Plans

Data Privacy Plan (DPP)

- Designed State
 Designed State

 Designed State
 Designed State

 Designed State
 Designed State
- Provides high-level guidance, principles and policies to ensure the privacy of Smart Columbus Demonstration data subjects and project participants.
- This document applies to all individuals who use or share data with Smart Columbus, including all Smart Columbus employees, partners and consultants.

Data Management Plan (DMP)



- Documents how the data within the Operating System will be added, made accessible and/or stored within the Operating System platform.
- Details how the data will be created, captured, transmitted, maintained, accessed, shared, secured and archived.



Planning for Post-Grant Operations & Maintenance

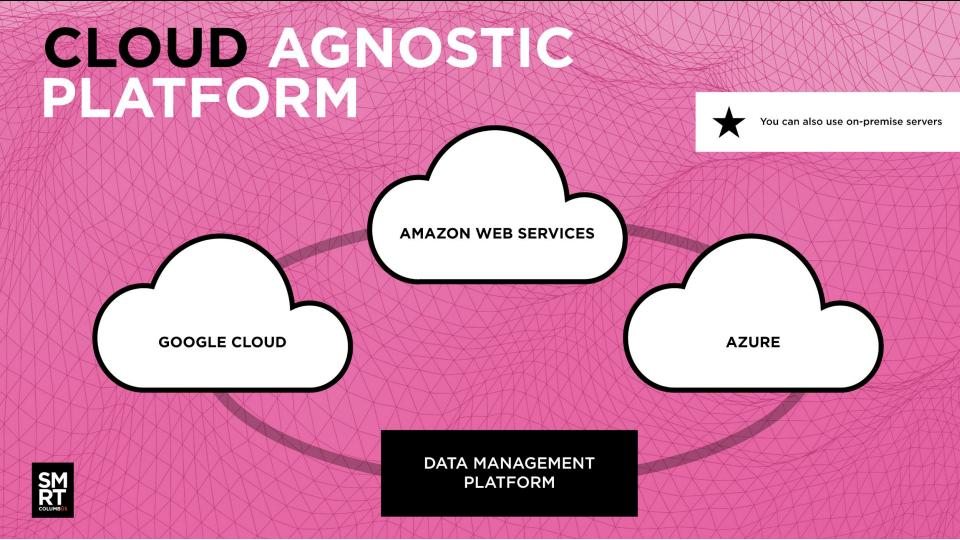
Establish operations and maintenance costs at time of transfer

- Operational support costs
- Legal agreements
- Staff
- DMP / DPP support
- etc.

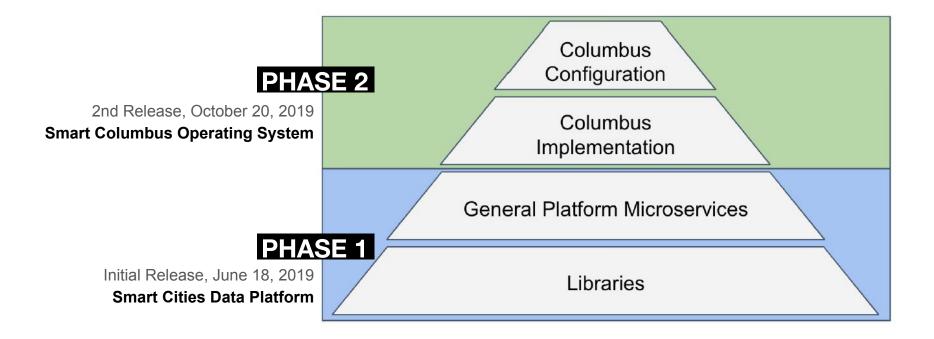
Articulate financial and institutional model to sustain

- Product lines
- Actual revenue
- Projected revenue with confidence
- Investment (schedule, documentation of commitments, etc.)



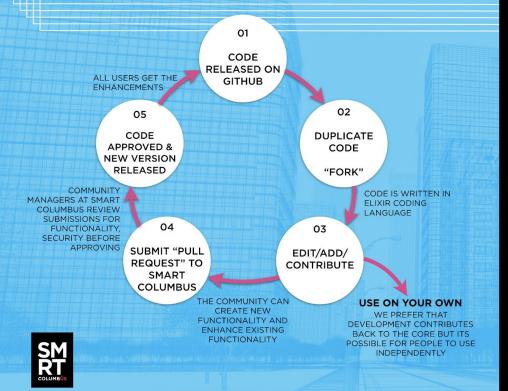






OPEN SOURCE

The Smart Columbus Operating System is built with open source code and available for license-free use and enhancement by third parties on GitHub at "SmartCitiesData"



• The general platform is **OPEN SOURCE AS OF JUNE 2019** and is publicly available with Apache 2.0 license

> • In October 2019, Smart Columbus grant project specific components will be released to the Open Source community

• YOU CAN USE THE CODE to build their own Smart City Data Platform

• SMART COLUMBUS WILL OFFER WORKSHOPS to teach people Elixir coding language and train people to contribute to the code.

SM RT columbůs

THANK YOU.

Visit www.smartcolumbusos.com to explore currently ingested data.

Program Manager: OS Product Owner: Mandy Bishop, **mkbishop@columbus.gov** Mackenzie King, *mackenzie.a.king@accenture.com*