Columbus, Ohio
Smart City

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Columbus, Ohio
14th largest state in the nation

Short North Arts District

Columbus Zoo

Nationwide Arena

Columbus Airport

15 public and private colleges and universities

Corporate headquarters of Wendy's and White Castle

And, of course . . .

**The Ohio State University
Home of the Buckeyes
aka
The Best Damn Band in the Land**

Rank	Large Metros with the Highest Segregation Levels	Index	Rank Out of All Metros
1	Austin-Round Rock, TX	0.925	3
2	Columbus, OH	0.912	4
3	San Antonio, TX	0.903	6
4	Houston-Sugar Land-Baytown, TX	0.903	7
5	Los Angeles-Long Beach-Santa Ana, CA	0.893	10
6	New York-Northern New Jersey-Long Island, NY-NJ-PA	0.889	11
7	Dallas-Fort Worth-Arlington, TX	0.875	12
8	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	0.873	13
9	Chicago-Naperville-Joliet, IL-IN-WI	0.868	15
10	Memphis, TN-MS-AR	0.867	16

How did Columbus, Ohio Get Smart?

$40 Million US Department of Transportation Challenge Grant awarded in 2016

$10 Million from Vulcan, Inc.

$720 Million in-kind support from public and private partners

Smart Columbus Goals

Priority 1 – Decarbonization
- Renewable Energy Generation
- Renewably Energy Management
- Energy Savings

Priority 2 – Fleet Adoption
- Increase electronic vehicle adoption among multiple business sectors in Columbus

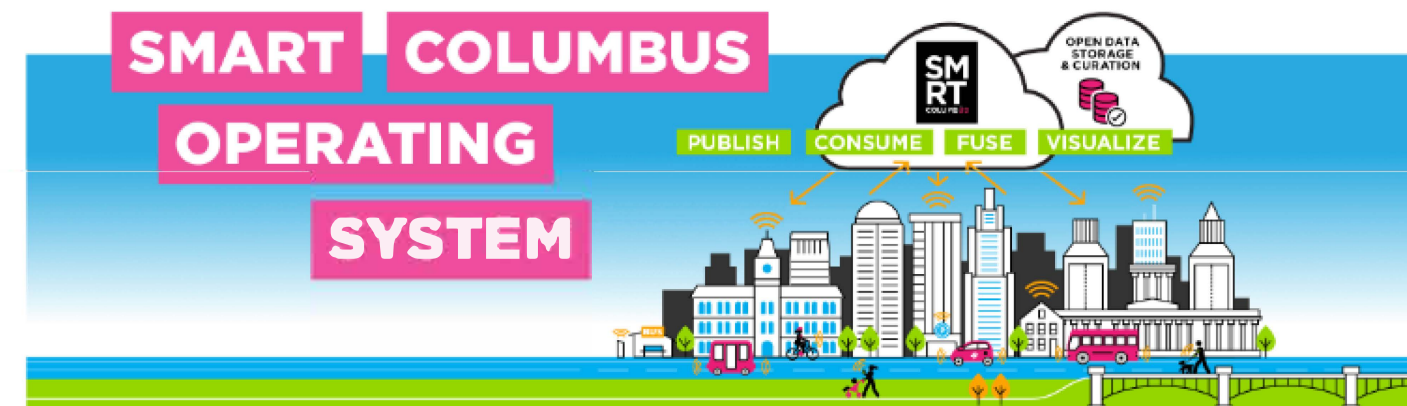**Priority 3 - Transit, Autonomous and Multi-Modal Systems in the City**
- Apply decarbonization strategies across all modes of transportation in Columbus.

Priority 4 - Consumer EV Adoption
- Increase electric vehicle adoption in the light duty truck market.

Priority 5 - Charging Infrastructure
Install 925 new charging stations by 2021

SMART COLUMBUS OPERATING SYSTEM

PUBLISH CONSUME FUSE VISUALIZE

OPEN DATA STORAGE & CURATION

COST	DEMONSTRATION	PEOPLE SERVED	ANALYTICS	OUTCOMES

COST
$15.9 MILLION

DEMONSTRATION
APRIL 2019 – TO – MARCH 2021

PEOPLE SERVED
USERS 58K+

ANALYTICS
DATASETS INGESTED 2,000+
DATA QUERIES 67,000+
DOWNLOADS 220,000+
VISUALIZATIONS 209

OUTCOMES

AGENCY EFFICIENCY
- Agencies access data in less time
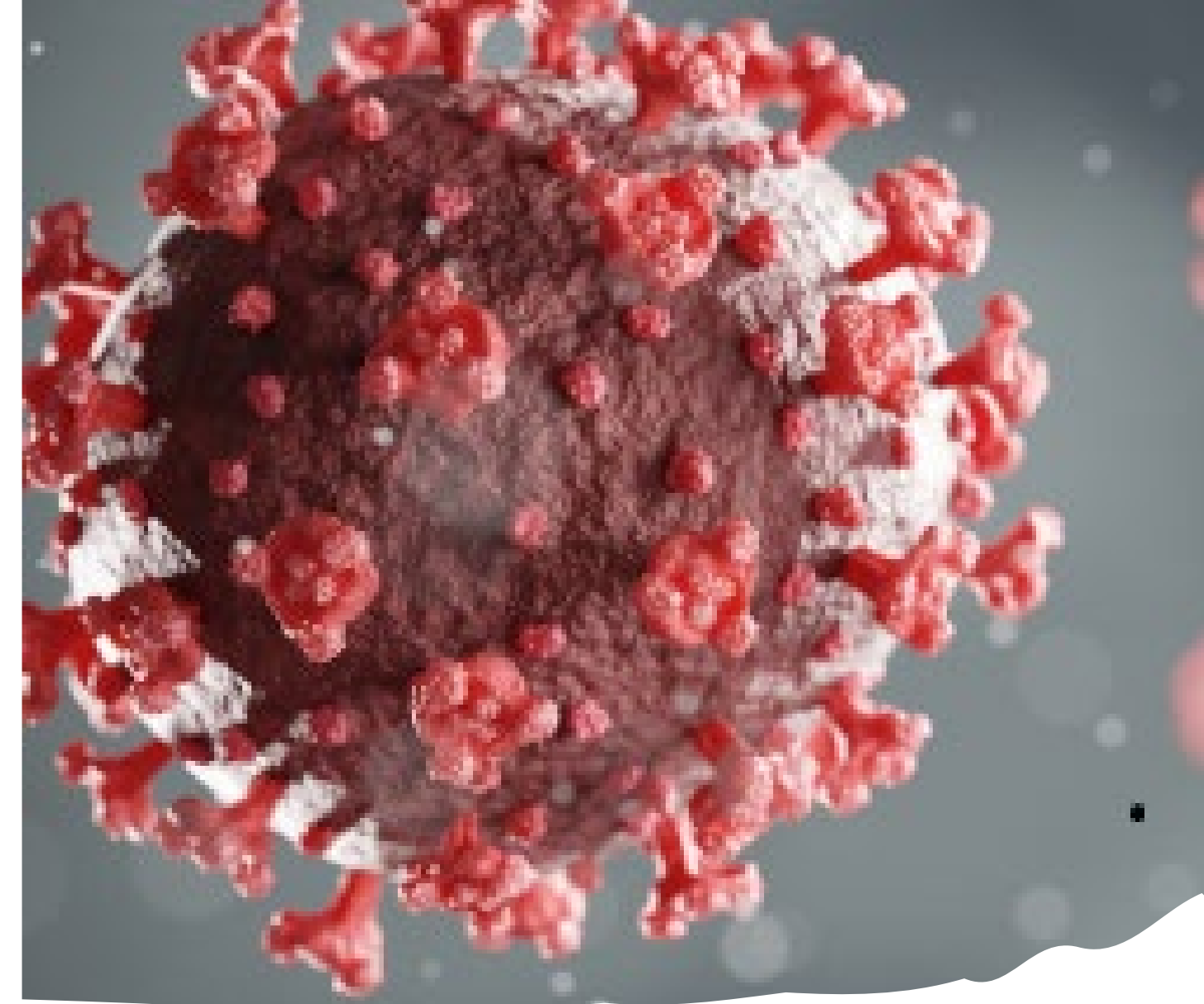- Agencies received fewer data requests from public users

CUSTOMER SATISFACTION
- Over 70% of users satisfied with metadata and freshness
- 18% say visualization primary focus
- 24% say analytics primary focus

SUSTAINABILITY   The City is exploring two paths to operate and maintain the Smart Columbus Operating System: First, the City is funding support through January 2022; second, the City is engaging with private entities to explore strategic partnerships for longer-term operations and ownership.
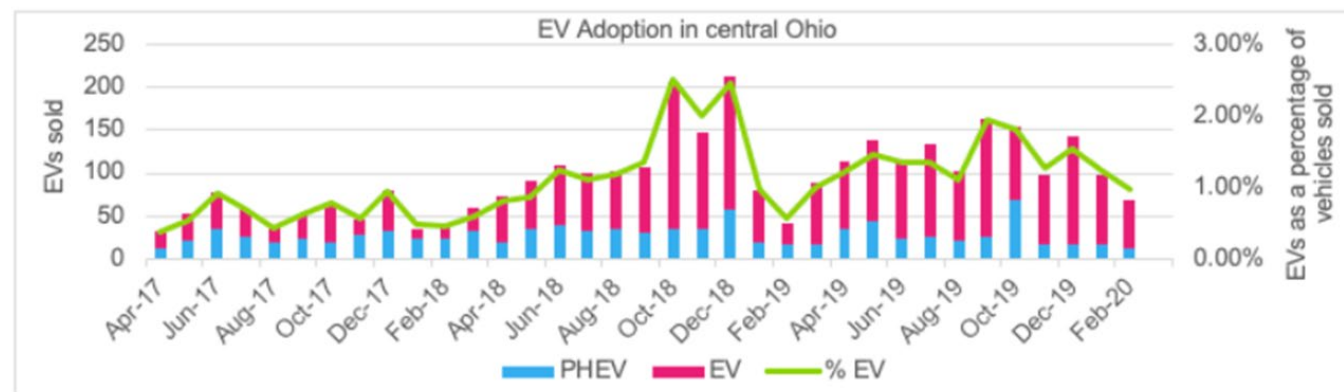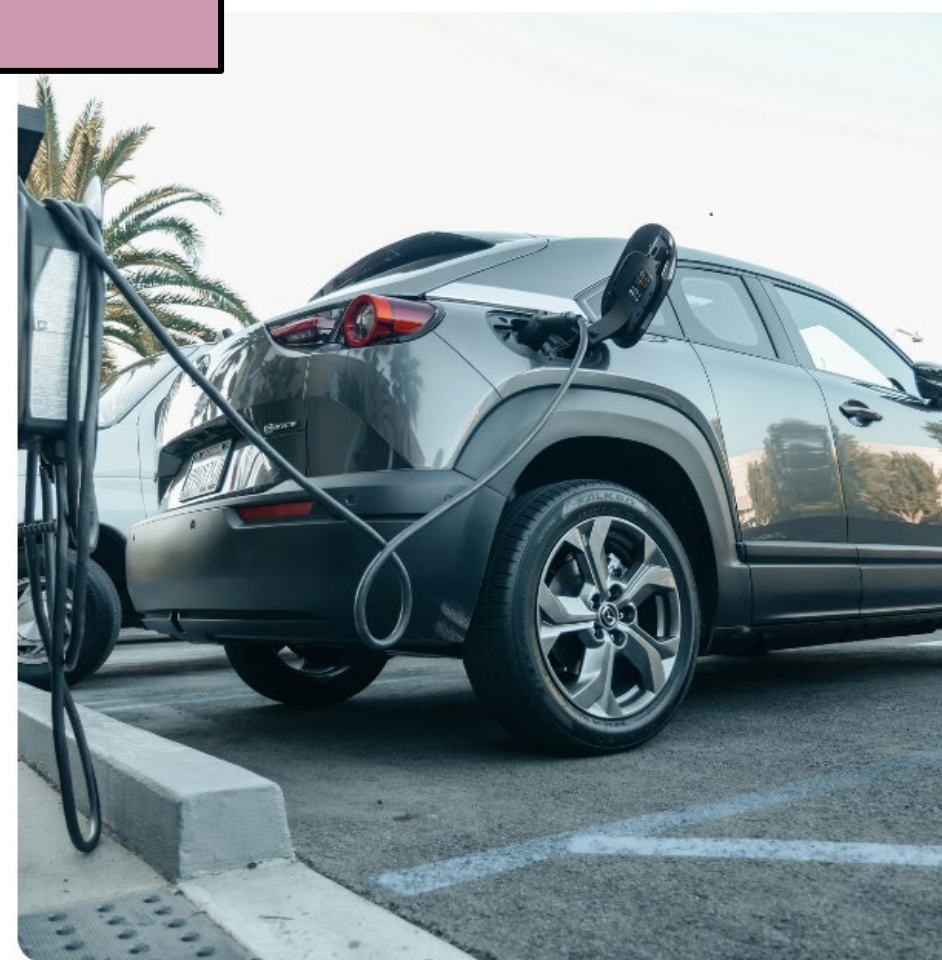
Some Bumps in the Road . . .

. . . and a pivot

The Linden LEAP was deployed to bring meals and other supplies to residents in need during the COVID 19 pandemic shutdown.

Successes

Electric Vehicle Adoption

3, 323 electric vehicles sold across seven Columbus area counties in 3 years.

20% increase in consumer interest in a future electric vehicle purchase.

	Before Smart Columbus Electrification Program October 2017	After Smart Columbus Electrification Program March 2020
Aware of one or more public EV charging station	42%	94%
Favorable or somewhat favorable perception of BEVs	48%	62%
Favorable or somewhat favorable perception of PHEVs	57%	65%
Somewhat or extremely likely to purchase a BEV	33%	55%
Somewhat or extremely likely to purchase a PHEV	33%	57%

Enhanced Human Services

- **Increase in trips to prenatal care**

- **Mobile app downloads and utilization during the pandemic**

- **Connected vehicles improve public safety**

Economic Impact

The Smart Cities Challenge Grant = $173.39 million in GMP

and nearly 2,400 new jobs.

Economic Impact

Access to jobs and services

**The Smart Cities Challenge Grant =
access to 20,000 more jobs and 3,000 more
healthcare options in a 30-minute radius
from the Linden Neighborhood area.**

What's Next?

Transition to Collaborative Innovation Lab

Sustain Mobility Initiatives

Continue focus on decarbonization strategies and other climate technology

New Focus Area – Digital Equity through the Franklin County Digital Equity Coalition

References

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Thank You