



Smart and Connected Communities Principal Investigators' Meeting

How Nashville Moves, Works and Grows

February 28, 2024

Then



Now



Next



Report: Nashville's economy makes it a top-tier city



Adam Tamburin, Jennifer A. Kingson

**“Nashville is the
#1 market to
watch in 2024.”**

-PwC 2023

Nashville International Airport smashes records for number of passengers in 2023

by Carter Thweatt | Thu, July 20th 2023



Residential Real Estate

Nashville ranks No. 1 city to watch for the third year, according to Urban Land Institute study



Nashville added nearly 100 new residents per day in 2022. Here's why people are moving to Music City

DOWNTOWN NASHVILLE LEADS IN RECOVERY RATES OF LARGEST U.S. CITIES SINCE 2020

Nashville ranked as U.S. city with the worst commute. Here's why.



Joyce Orlando

Nashville Tennessean

Published 10:33 a.m. CT Oct. 31, 2023 | Updated 10:33 a.m. CT Oct. 31, 2023

Nov 7, 2023 - Real Estate

You need a six-figure salary to buy a home in Nashville



Adam Tamburin

Residential Real Estate

Rising cost of living, depleted funds create 'perfect storm' for Nashville seniors

HOW NASHVILLE MOVES



GUIDING PRINCIPLES

BOLD SOLUTIONS
backed by **DATA**,
in line with
COMMUNITY NEEDS

Community Needs
Data



SAFE, RELIABLE, ACCESSIBLE
TRANSPORTATION INFRASTRUCTURE

615
TRANSIT #1

MAYOR O'CONNELL:
LEAD TRANSIT CHAMPION

engage RIDERS,
COMMUNITIES, LEADERS

feedback
ideas

POLICY

✓ **REBUILD TRUST** in our
TRANSPORTATION SYSTEM

HOW
SHARE PROGRESS
AND BENEFITS

TRAFFIC MANAGEMENT CENTER

RECOMMENDATIONS

CONNECT
DOWNTOWN

NORTH NASHVILLE
NEW TRANSIT HUB

✓ **TRANSPORTATION**
& INFRASTRUCTURE
PLANS to Reality



✓ **TRANSIT**
REFERENDUM?



CONSISTENT
COMMUNICATION

transit-related
investments
improvements
BENEFITS

✓ **Regional**
COMMITMENT
to TRANSIT



INDEPENDENT & INCLUSIVE
TRANSIT ADVOCACY COALITION

A TRANSIT PLAN THAT
WORKS FOR NASHVILLIANS

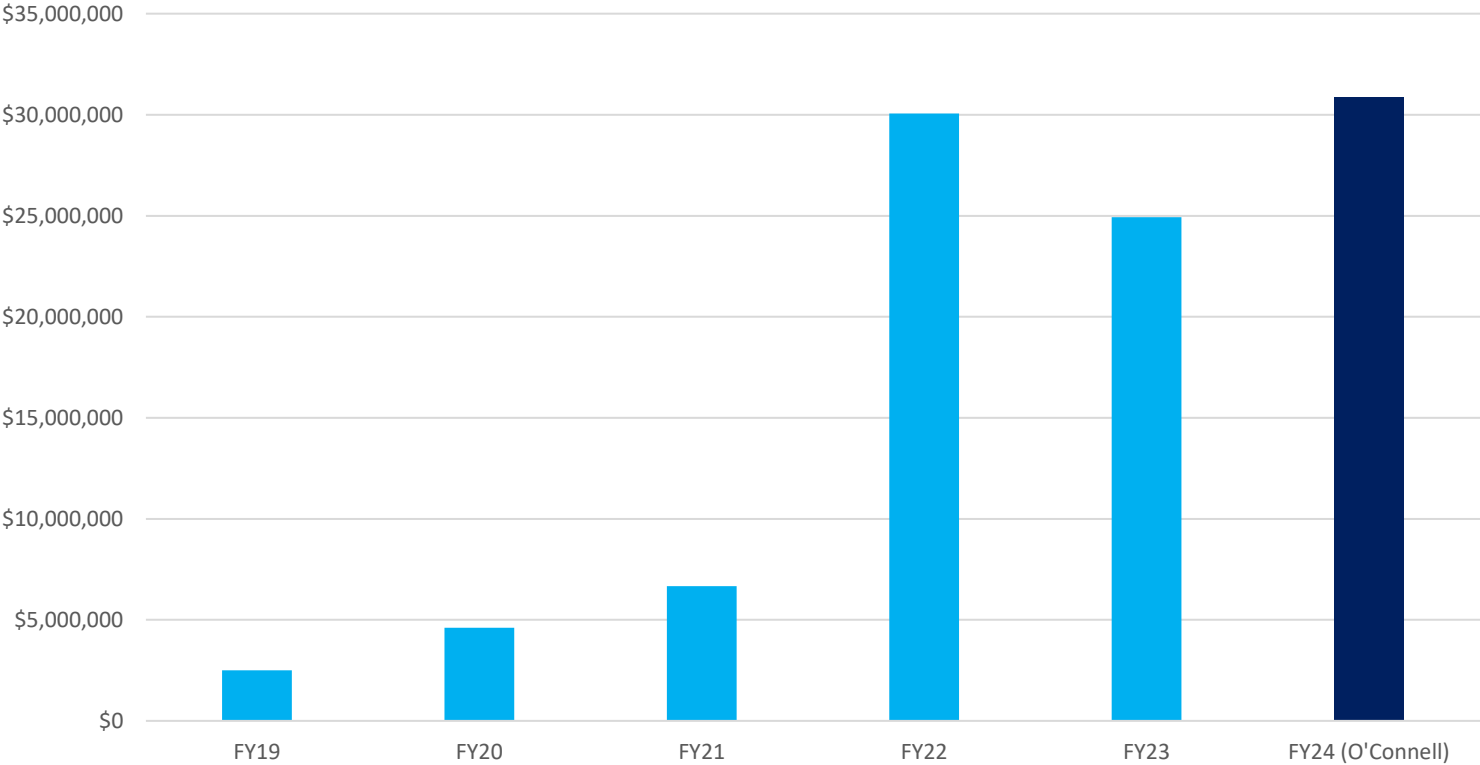


FOR FULL REPORT, VISIT NASHVILLE.GOV/TRANSITION-COMMITTEE



Historical CSP Funding Levels

The FY'24 Capital Spending Plan has the highest investment in transportation over the past 7 years.



CHOOSE HOW YOU MOVE

- An All-Access Pass to Sidewalks, Signals, Service and Safety in Nashville
- Plan in development: late March
- Possible referendum Nov. 5
- Can we collaborate and innovate toward solutions?



Downtown: Work. Play. Live?

Year	Residents
2002	More dogs today than residents then
2006	2,280
2010	5,155
2015	8,313
2020	14,000
Today	17,630
2026	25,000 (based on construction)



62%
CITE WALKABILITY
as a top reason they live
downtown



5,006
DOGS
downtown



93%
SAY
downtown is a FUN
place to live

HOW NASHVILLE WORKS



Guiding Principles

ACCESSIBLE to ALL NASHVILLIANS

OPEN and TRANSPARENT

ACCOUNTABLE

CULTURE of COLLABORATION

POLICY RECOMMENDATIONS

COORDINATION across MULTIPLE DEPARTMENTS & METRO-AFFILIATED OFFICES

BEST-IN-CLASS CUSTOMER SERVICE

we are OPEN

hub Nashville

OPEN FORUMS @ CONVENIENT TIMES, READILY ACCESSIBLE LOCATIONS

progress updates



FOR FULL REPORT, VISIT NASHVILLE.GOV/TRANSITION-COMMITTEE



Metro Nashville Davidson County's Portal for Non-Emergency Services and Information

- Dial 311 (8 a.m. to 5 p.m., Monday-Friday)
- Visit hub.nashville.gov
- Download the app
- Responded to nearly 300,000 requests in 2023

HOW NASHVILLE GROWS



GUIDING PRINCIPLES

INVEST throughout NASHVILLE

DECISIONS ARE OPEN and TRANSPARENT

FIND A BALANCE

STAY ACCOUNTABLE

POLICY

RECOMMENDATIONS

CLEARLY COMMUNICATE COSTS

empower NEIGHBORHOODS to ARTICULATE & ADVOCATE for their PRIORITIES

MAKE the MOST of metro-owned LAND and BUILDINGS

take PLANS to REALITY

FOCUS on the IMAGINE EAST BANK VISION PLAN

prioritize INVESTMENTS ACROSS NASHVILLE



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East Bank

Imagine East Bank Vision Plan approved by MPC October 2022.

Metro owns 113 acres of the 550-acre site.

People-Centric development:

- sidewalks
- multimodal uses
- outdoor space network
- affordable housing
- resiliency



Metro-Owned Campus

Future Mobility Hub





Case Studies in Collaboration

University Partners



Indigent care



Corridor studies with NDOT



Fisk University

Social justice hackathon



Health disparities



Transit Citizen Leadership Academy



Nashville GRAD program



Napier, Sudekum communities



Intelligent Ecosystem Collaborative

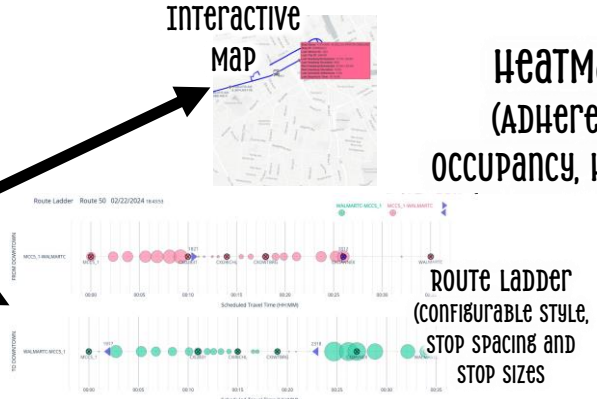
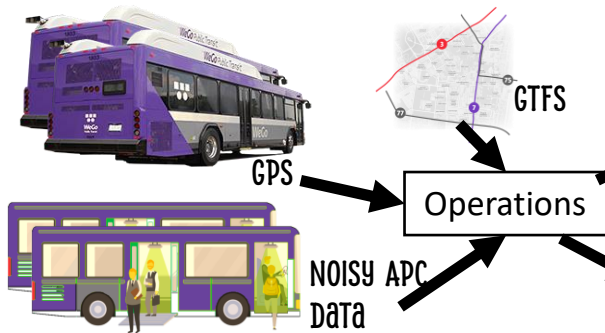
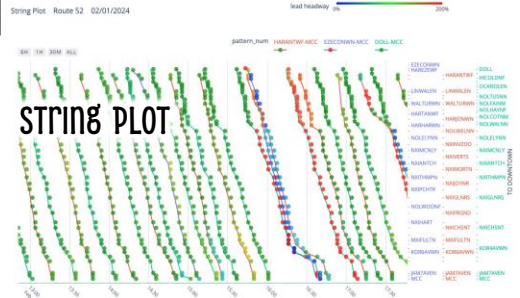
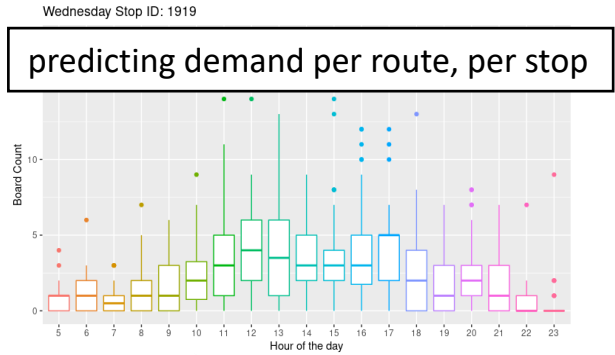
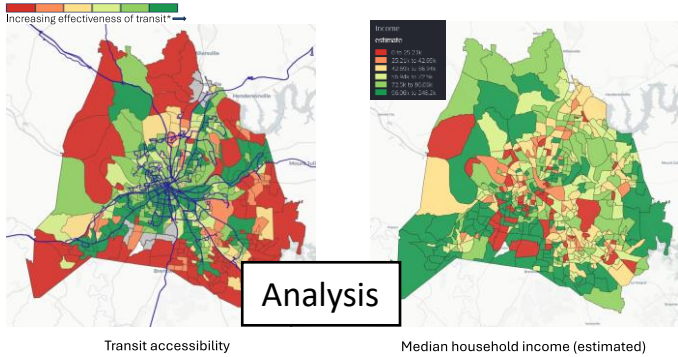
The partnership started through an NSF project in 2015/2016



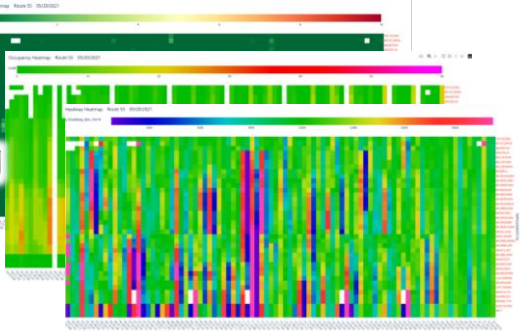
VANDERBILT
UNIVERSITY



Mobility for All through helping public transportation



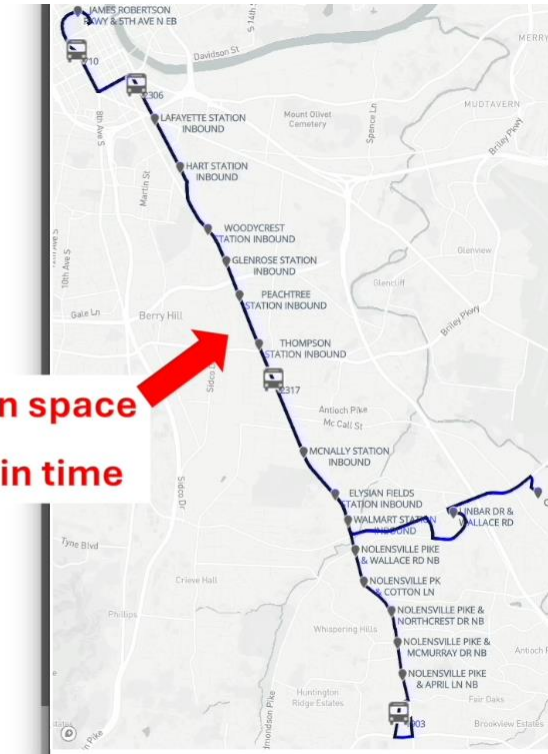
HEATMAPS (ADHERENCE, OCCUPANCY, HEADWAY)



Enabled by strong collaborations:



Smart Analytics for Helping Bus Operations Monitoring



Partially supported by NSF and FTA

Safer roadways through better measurement

I-24 MOTION quantifies and improves congestion and safety



SMART grant measures near-misses to improve pedestrian safety



Enabled by strong collaborations:





Funded by NSF CIVIC Innovation Challenge Program

Creating an AI-based Community-wide Efficient and Equitable Emergency Response System

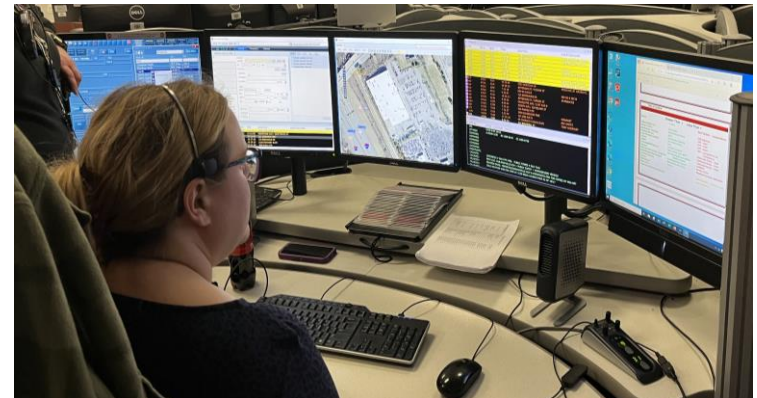
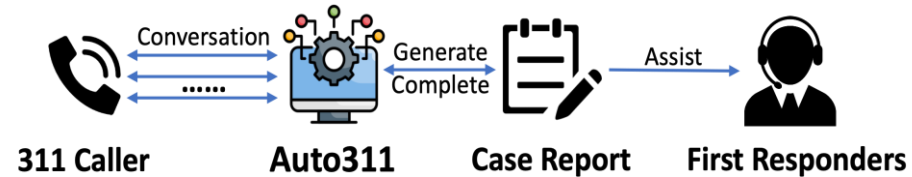
Partners: Metro Nashville Emergency Communication, Information Technology Service, Fire Department, Vanderbilt University

We developed the first system in the US automating 3-1-1 non-emergency calls:

- Community-centric co-design
- Detecting incident types, navigating the conversation, and supporting dispatching.
- Evaluating on 12,000 non-emergency call recordings
- **At a fraction of the cost compared to corporate vendors** that offer black-box solutions.
- **State-of-the-art AI**, built with active collaboration with DEC.

Outcomes and Impact:

- Prevent 9-1-1 dispatchers from being tied up answering routine non-emergency calls to allow dispatchers the opportunity to answer emergency calls more quickly.
- A system will be deployed in Nashville communication center to handle 60,000 non-emergency calls per year.





Challenges

Trust

- Data integrity
- Cybersecurity
- Privacy and protection of sensitive information
- Ability to control how data is used by the government
- Unintended consequences

Fusus, the controversial police surveillance contract, has been removed from Nashville's Metro Council agenda

CYNTHIA ABRAMS   ● FEBRUARY 5, 2024



Advanced Transportation Management System

Intelligent Transportation Systems + Transit Signal Priority tech:

- Traffic signal synchronization
- Automated traffic signal performance measures
- Updated pedestrian signalization infrastructure
- Prioritize bus movements and maintain transit schedules
- Better safety + mobility. Saves the data we need, not PII.

Continuity and Sustainability

- From research phase to implementation
- From administration to administration

Connected Nashville: Intelligent Ecosystem Collaborative



- Increase collaboration on projects focused on intelligent and connected urban infrastructure and services
- Take advantage of opportunities for federal funding
- Possible expansion to include more partners



Opportunities: Our Vision For the Future

A more tech-savvy local government

- A mayor who can code
- Digital Inclusion Trailblazer
- Metro's first Digital Inclusion Officer Pearl Amanfu
- Metro's first Director of Data and Innovation Dave Rosenberg
- Community, Asset, and Land Use (CAL) program
- Retrofit
- Metro's first AI and GenAI Policy
- UI/UX committee: future redesigns for nashville.gov and hub

A more collaborative approach: Partner-in-Chief

- Data collection on existing first/last mile services.
- Integration of the service to mobile app.
- Integration of on-demand and fixed route services.



- On-demand zones Identification.
- Targeting low-income households.



PATH-TN

- On-demand zones identification
- Innovation Corridor for deployment and evaluation.



- Explore the equitability and efficiency.
- Improvement of Park&Ride services.
- Urban connected testbed for deployment and evaluation.



AI-Driven Integrated Multimodal Public Transportation

The idea is to combine fixed line and on-demand transportation at scale and replicate it across agencies



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