

METROPOLITAN TRANSIT AUTHORITY OF HARRIS COUNTY, TEXAS

2020

METRO ON THE MOVE

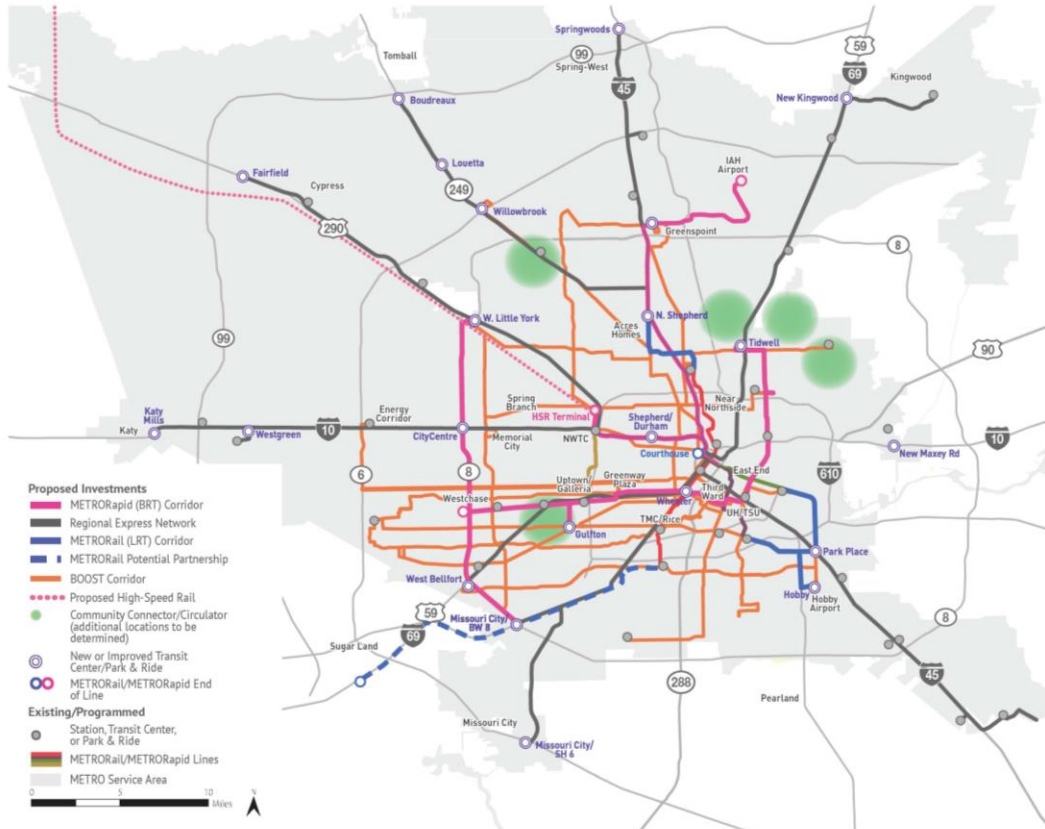
FEBRUARY 14, 2020



2020 METRO

METRO's mission is to provide safe, clean, reliable, accessible and friendly public transportation services to our region.

METRONext Moving Forward Plan



METRORapid (BRT)

- Interstate Highway 45 North to George Bush Intercontinental Airport and Greenspoint
- Inner Katy Corridor to Northwest Transit Center / Proposed High Speed Rail / Uptown
- University Corridor between Westchase and Tidwell
- Uptown Corridor extension to Gulfport
- West Houston Corridor between West Little York Park & Ride and Missouri City

Regional Express

- United States Highway 90A Two-Way HOV
- Interstate Highway 10 West Two-Way HOV
- Interstate Highway 45 North Two-Way HOV
- United States Highway 59/Interstate Highway 69 South Two-Way HOV Downtown to Edloe
- State Highway 249 Two-Way Diamond Lanes/HOV
- 4 Off-Peak Direction Diamond Lane Corridors

METRORail (LRT)

- Connecting the Green Line and Purple Line and extending the combined lines to William P. Hobby Airport
- Extensions of Green and Purple Lines to the City of Houston Municipal Courthouse
- Extension of Red Line to North Shepherd

BOOST & Signature Service

- 17 Corridors
- Westheimer Signature Bus Service

System Enhancements

- Approximately 21 new or improved Park & Rides, and Transit Centers
- Approximately 10 new Community Connectors / Circulators
- Systemwide route improvements
- Bus stop enhancements, such as new shelters, accessibility upgrades, and enhanced passenger information
- Bus Operating Facility
- Downtown, Midtown, and Texas Medical Center transit improvements
- Park & Ride Service Enhancements
- Accessibility and usability improvements and other investments designed to reduce barriers for seniors, the disabled and other users of METRO's transit system, including METROLift services
- Improvements to facilitate portions of a rider's trip before and after use of METRO's transit system (First Mile/Last Mile)
- Safety and Security Enhancements

Note: During the course of the implementation of METRONEXT, exact routes of the METRORapid and METRORail connections shown above will only be decided and finalized after an extensive community involvement process.



Major Long Term Projects

- **Airport Connectivity**

- 22 miles of Bus Rapid Transit on the IH 45 North Corridor will provide a direct connection between Downtown, and George Bush Intercontinental Airport.
- Light Rail extension will provide direct connection from Downtown to William P. Hobby Airport.

- **Serve More People, And More Places**

- 25.3 miles of Bus Rapid Transit will provide a new east–west connection between Westchase, Galleria, Downtown, and University of Houston/Texas Southern University.
- Bus Rapid Transit in West Houston along Beltway 8

- **Two-Way High Occupancy Vehicle (HOV) Lanes**

- Expansion of the HOV Network along major freeway corridors will create new travel options.

Short Term Priority Projects

- **Inner Katy**
 - Bus Rapid Transit connection between Downtown and Galleria area.
- **Expand Community Connectors**
 - On demand bus service within a defined zone.
- **Universal Accessibility Projects**
- **BOOST Corridors**
 - Bus Operations Optimized System Treatments will optimize bus stop locations and traffic signal coordination and enhance bus stop amenities and accessibility.
- **Reimagining the Entire Commuter Network**
- **24 Hour Day Transit Services**

Office of Innovation

- Established in 2016 to facilitate emerging technology and strategic planning
- Maintains:
 - Unsolicited Proposal Program
 - Pilot Initiatives
 - Research
 - Proof of Concepts Opportunities
 - Public Private Partnerships
- Named Autonomous Vehicle Proving Ground in 2017

Autonomous University Circulator



Houston METRO operates the only autonomous passenger circulator in the region

Houston METRO is member of National Automated Bus Consortium

Vehicle

- Description: Deployed as a Public Transit System
- Trademark: EasyMile EZ10 Gen2
- Type of vehicle: Battery-Electric Automated Shuttle
- Vehicle driving automation: Level 4 - High Automation (SAE J3016)
- Passenger capacity per vehicle: 12 passengers – 6 seated /6 standing



Travel at Touch of A Button



Mobile Ticketing

Bluetooth
Beacon for
Wayfinding

Next Bus Texting

Security/
Infotainment

Trip App

Coming Soon



Drone Program for
Security & Maintenance
Inspections



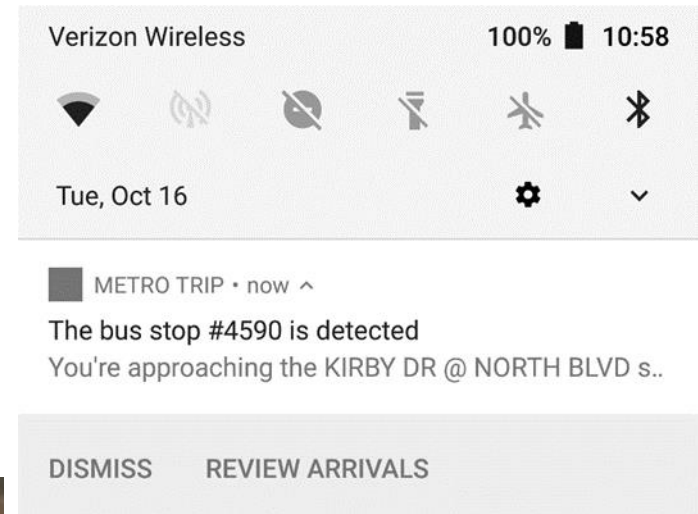
App-Based On-Demand
Shared Ride Service



Connect Smart App

Bluetooth Beacon Project

- Approved Nov 2018
- One of largest transit deployments in the nation (over 9,200)
- Network helps vision-impaired and all patrons navigate METRO's bus stops and facilities
- Beacon technology integrated directly into METRO TRIP App



Digital Signage Project

- Approved Sept 2019
- 1,500+ signs to be installed at Park & Rides, Transit Centers, and BOOST routes
- Bus bays, BRT and LRT platforms will also be outfitted
- FY2022 scheduled completion



Transit Security Robot Project

- Approved Jan 2020
- 1 stationary and 2 mobile robots are part of 1-year trial
- To be deployed at 1 rail platform, 1 transit center, and 1 Park & Ride lot to help with security and patron engagement



Transit Fleet Wi-Fi Project

- Presenting to Board Feb 2020
- 1,736 vehicles to be equipped: local and Park & Ride buses, all paratransit vehicles, all METRO Rail vehicles
- Project is to encourage more ridership and to improve the customer experience

