



CITY OF ALEXANDRIA

Transportation Update

Environmental Policy Commission
April 21, 2025



Agenda



- 1 Transportation**
- 2 Transportation and Environment**
- 3 Environmental Action Plan 2040**
- 4 Low-Carbon Modes**
- 5 Reduce Automobile Dependency**

Public Transit



Christopher Ziemann, AICP

► Transportation Planning Division Chief

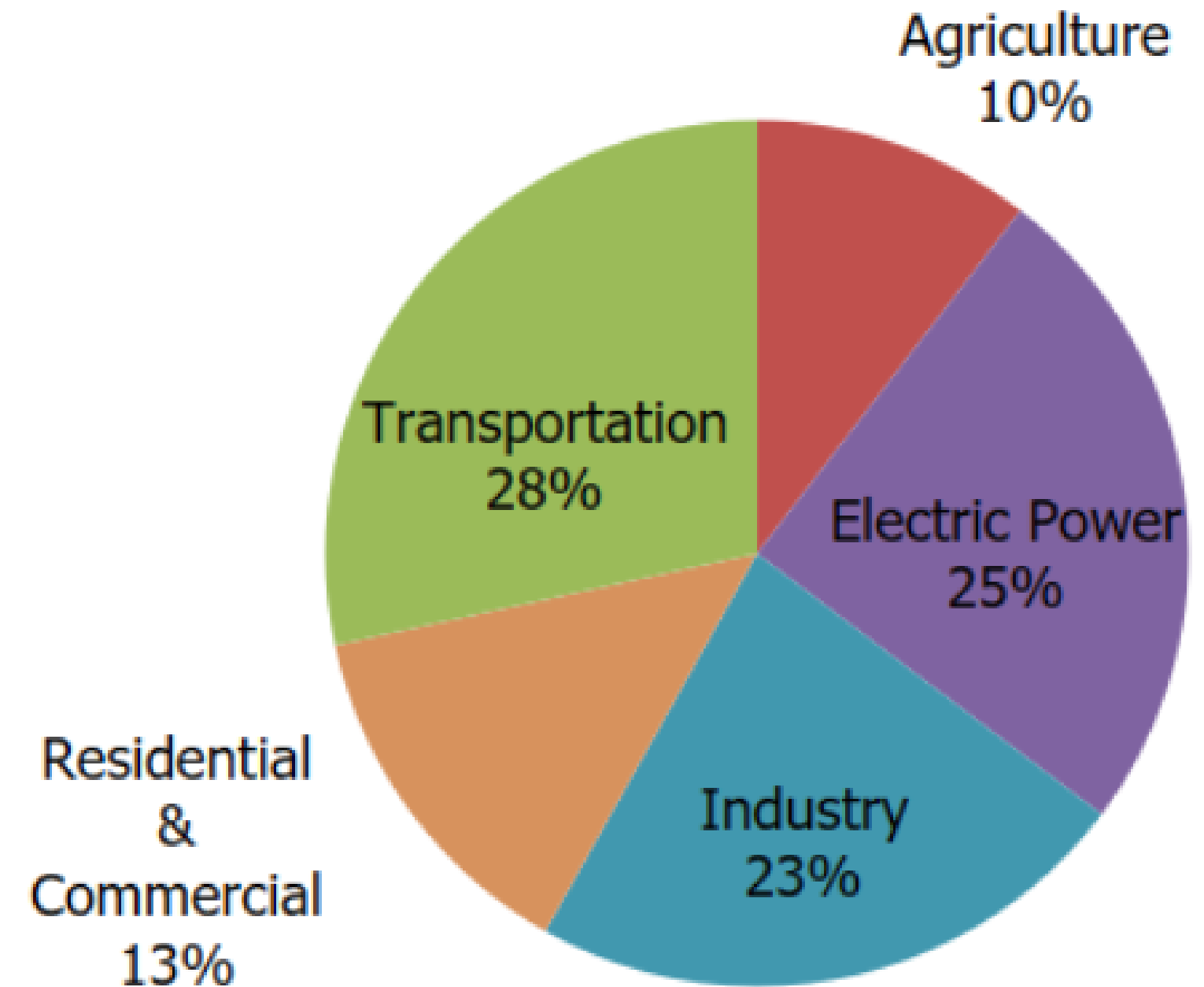
- Vision Zero
- Complete Streets
- Safe Routes to School
- Transit Planning
- Long-range Planning
- Development Review





Transportation and the Environment – Climate Change

- **Emissions increased 19%
1990-2022**
- **Surface Vehicles - 80%**



**Total U.S. Greenhouse Gas Emissions by Economic
Sector**

Source: EPA



Transportation and the Environment

– Air Quality

- **Lead**
- **CO₂**
- **NO_x**
- **Heavy metals**
- **Particulate Matter**
- **Major health impacts**





Transportation and the Environment

– Noise

- **Health Effects**
- **Lowers property values**
- **Wildlife**





Transportation and the Environment

– Water

- **Fuel**
- **Chemicals**
- **Particulates**
- **Temperature**

- **Pavement**
 - **Parking lots**
 - **Wide streets**



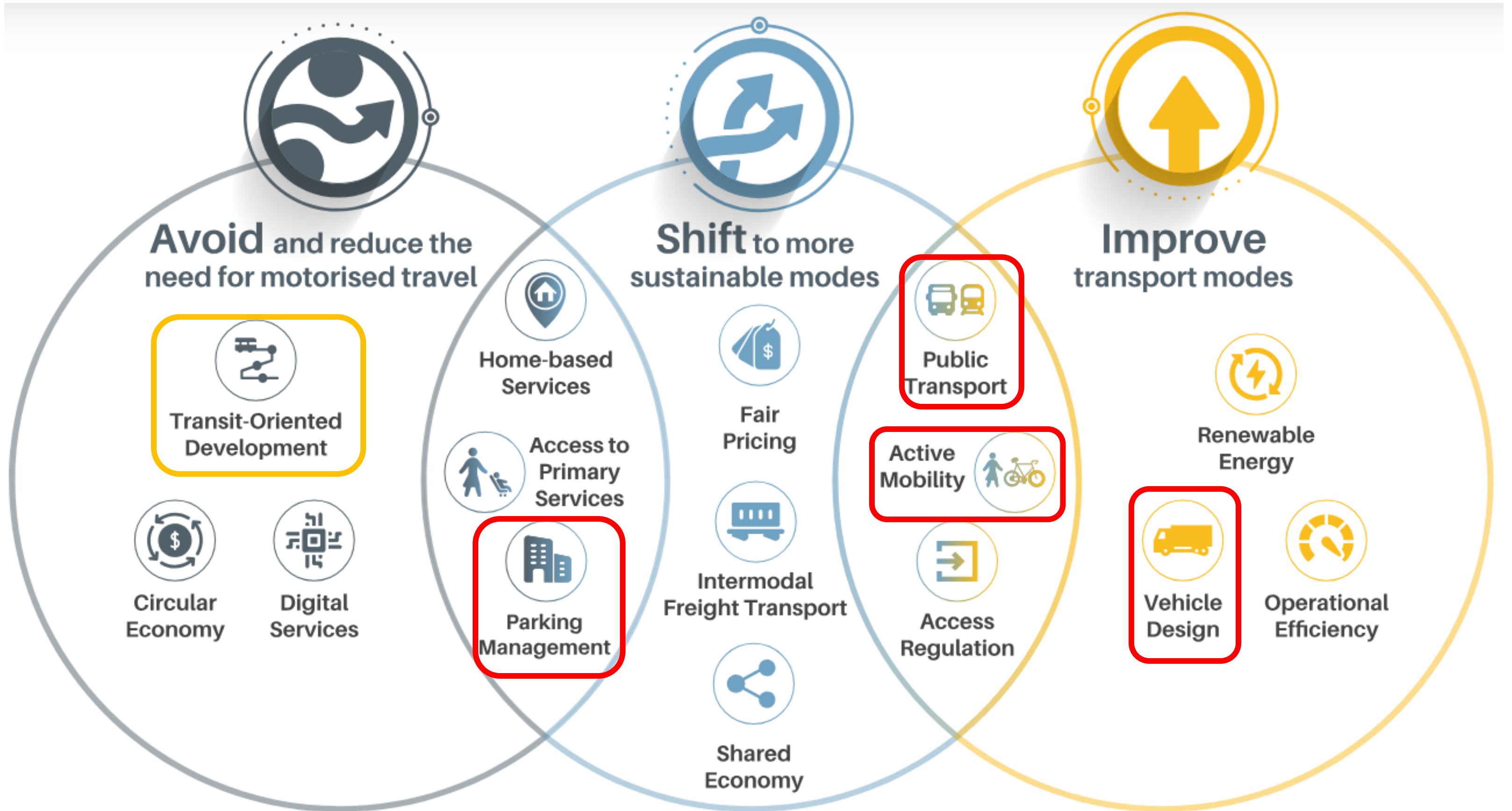


Transportation and the Environment

– Land Use

- **Sprawl**
- **Induced demand**
- **Habitat destruction**
- **Interrupting natural paths**





*The A-S-I diagramme presents a non-exhaustive list of measures for illustrative purposes only.

Source: SLOCAT

Avoid-Shift-Improve



Environmental Action Plan

Low Carbon Options

- **Vision Zero**
- **Bike Lanes**
- **Bike/Ped projects**
- **SRTS**
- **Developments**
- **Micromobility**
- **Electric Buses**

7.1 PRIORITIZING LOW-CARBON MOBILITY OPTIONS

GOAL

Aggressively promote vibrant, human-scale city streets that prioritize people's access and mobility so that all Alexandria residents and visitors have access to the commercial and cultural resources of the city using low-carbon modes of transportation, consistent with the following level of precedence: pedestrians, bicyclists, public transportation, shared motor vehicles, freight vehicles and private motor vehicles

TARGET

By FY2023, reduce total average vehicle miles traveled (VMT) per capita by at least 1 percent per year and determine the amount of carbon reduction from transportation sector

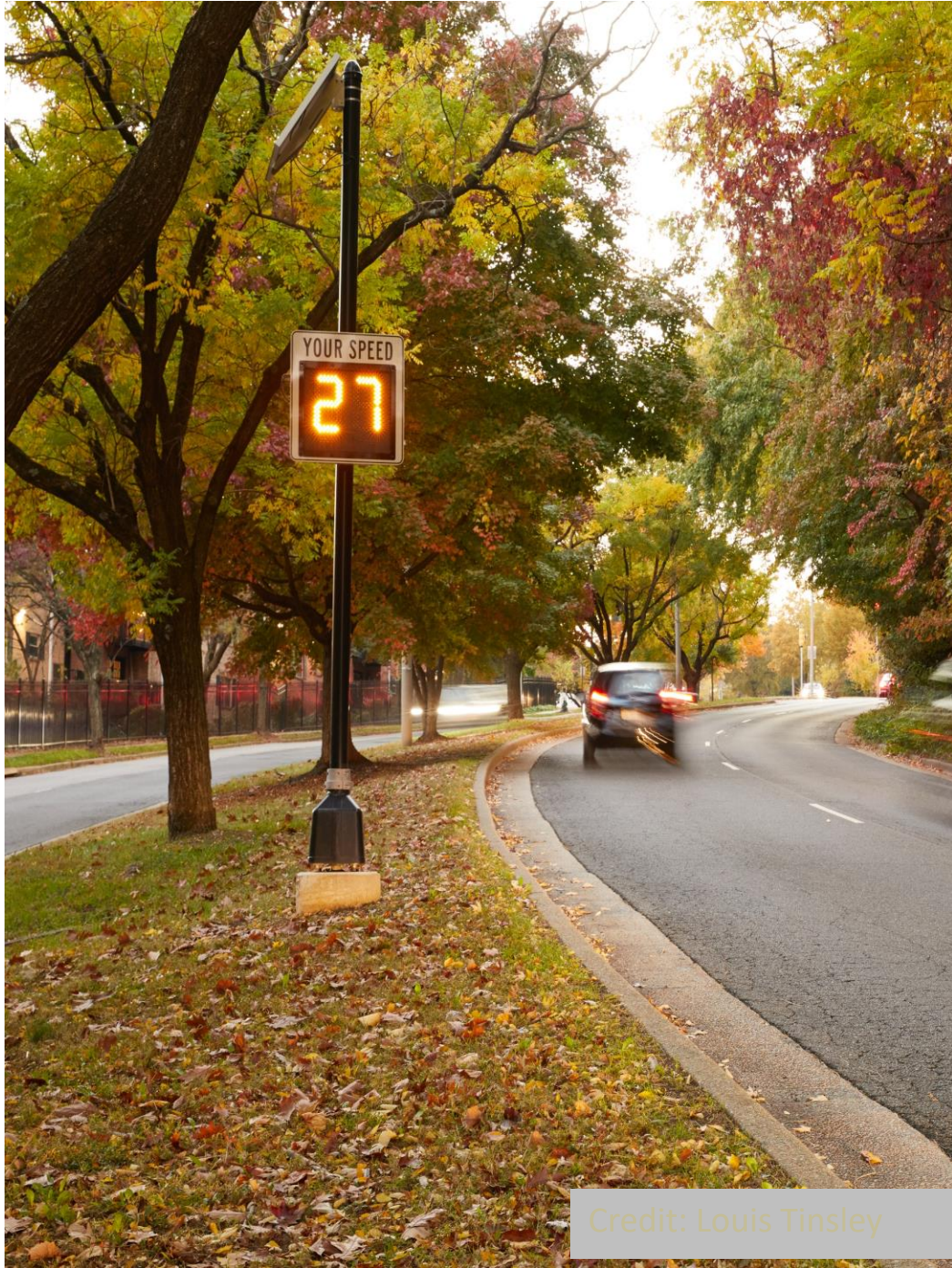














Credit: Foulger Pratt



Electric Buses



Micromobility



Environmental Action Plan

Reduce Automobile Dependency

- **Transportation Demand Management**
- **PY Metro**
- **Parking**

7.2 REDUCE AUTOMOBILE DEPENDENCY

GOAL

Reduce automobile dependency and educate individuals and employers on mobility options other than single-occupancy driving

TARGET

By FY2023, increase the share of all trips taken by public transit, walking and biking by at least 15 percent taking the 2018 Mobility Survey as the base year



Go Alex



PY Metro and Parking



Environmental Action Plan

Public Transit Systems

- **NextBus Technology**
- **Expand BRT**

7.3 IMPROVE, EXPAND AND INTEGRATE PUBLIC TRANSIT SYSTEMS

GOAL

Improve and expand Alexandria's public transit system so that passenger rail and bus systems are safe, reliable, accessible, convenient, attractive, efficient, and equitable

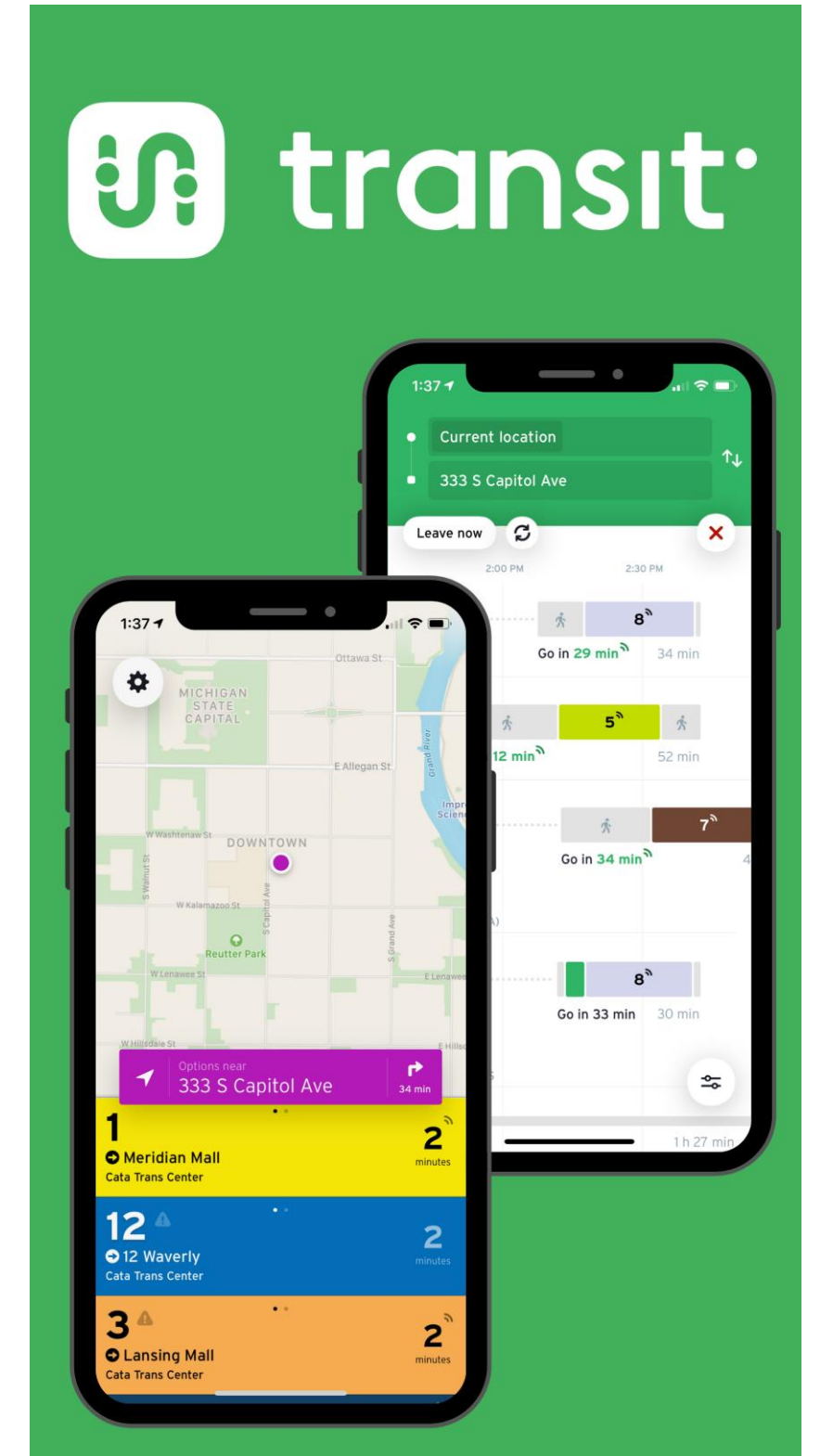
TARGET

By FY2030, double the miles of dedicated bus infrastructure to at least 1.5 miles



Environmental Action Plan

Public Transit Systems





ALEXANDRIA TRANSIT COMPANY
DASH

NO TICKETS
NO CARDS
NO APPS

ALEXANDRIA TRANSIT COMPANY
DASH

FREE TO RIDE!

NO TICKETS
NO CARDS
NO APPS

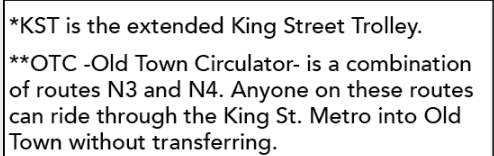
JUST HOP ON
& RIDE!

FREE • ١٩ • GRATIS • ح • LIBRE • دازآ • FREE • 자유 • FREE • ١٩ • GRATIS • ح • LIBRE • دازآ • FREE • 자유

Free Fares on DASH



Bus Stop Program



Existing Fairfax Connector routes are assumed to remain the same.



CITY OF ALEXANDRIA

Thank you!

