

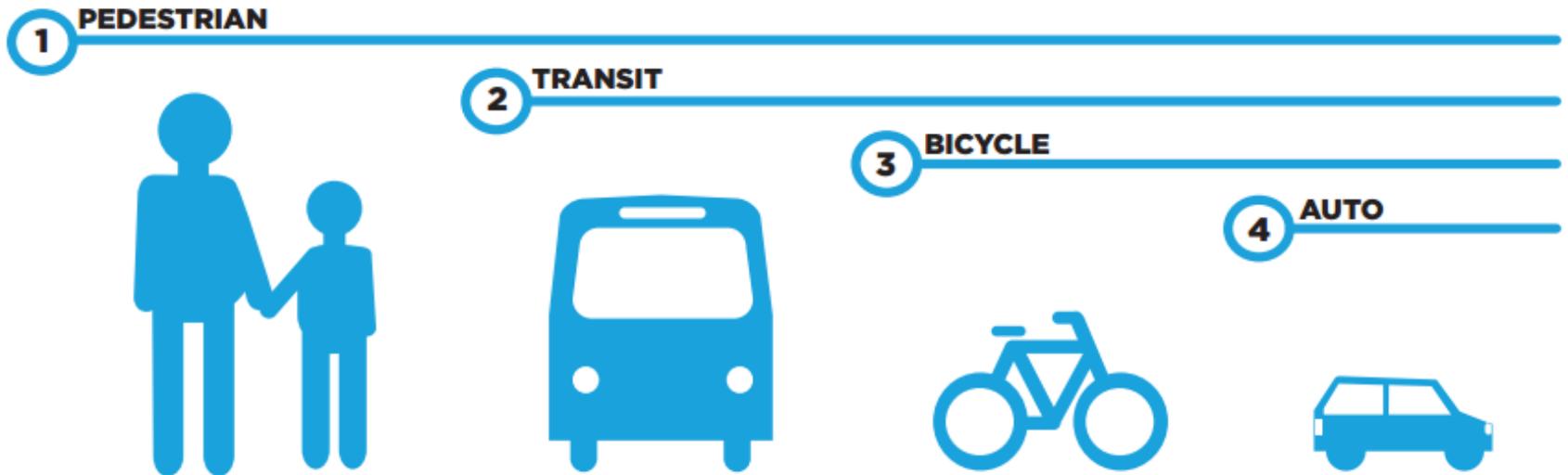


Alexandria Bicycle and Pedestrian Advisory Committee

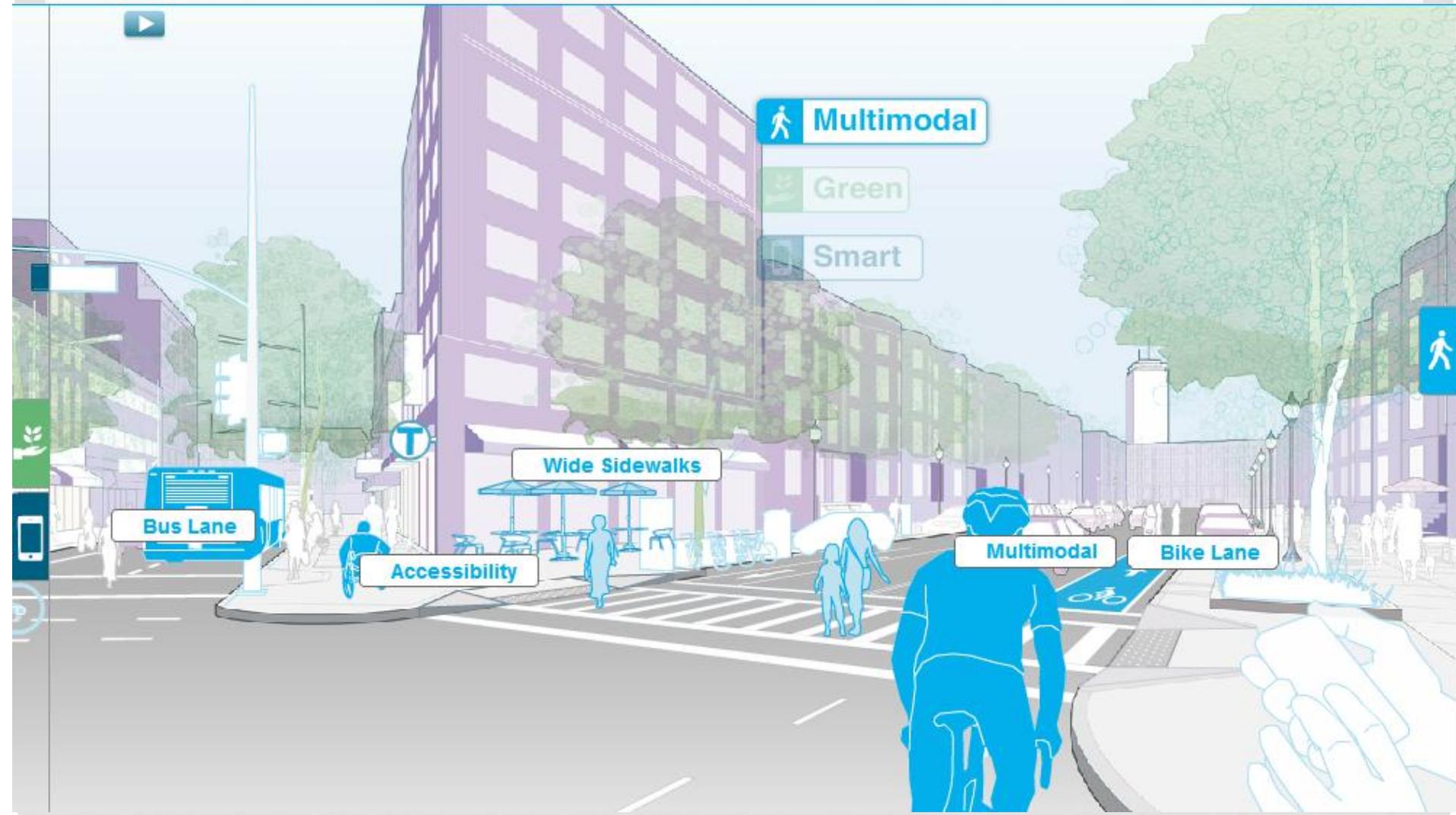
PRESENTS:
**COMPLETE STREETS AND
PEDESTRIAN SAFETY IN
ALEXANDRIA**

WHAT ARE COMPLETE STREETS?

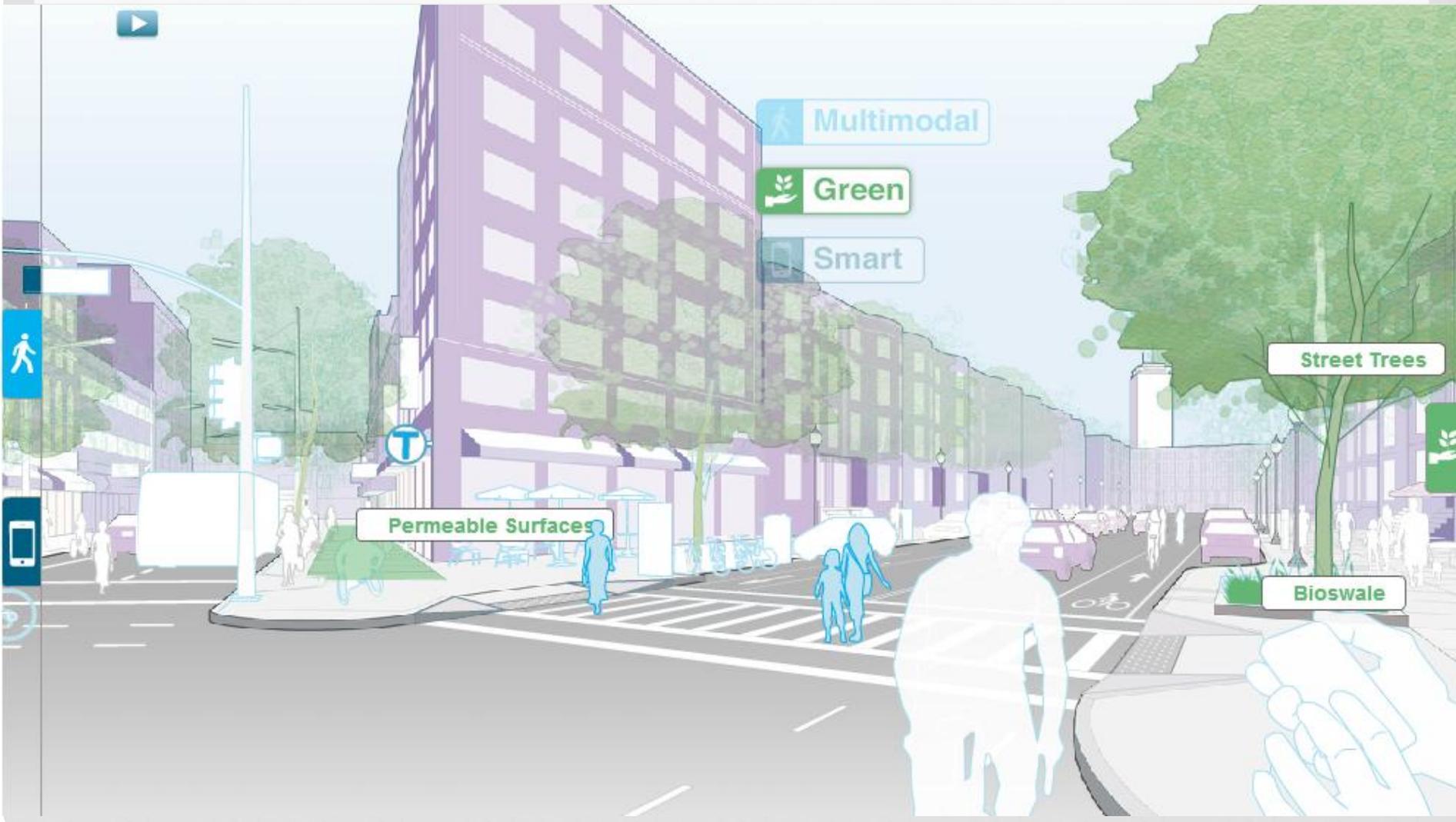
Complete Streets are streets designed **people of all ages** and abilities, including children, older adults, and individuals with disabilities. These streets **ensure safe and convenient travel** for all users, including pedestrians, bicyclists, riders and drivers of public transportation, as well as drivers of other motor-vehicles.



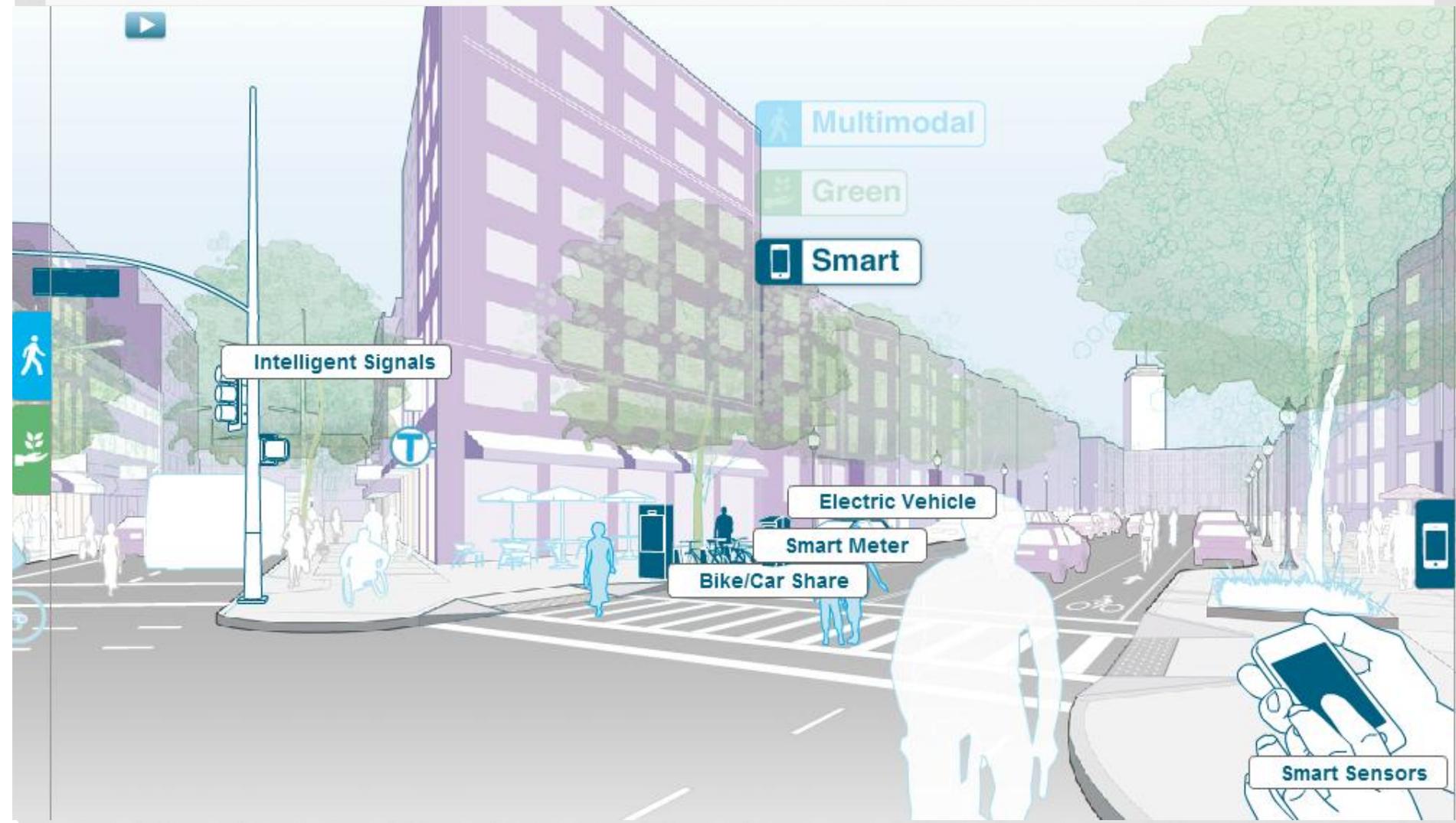
MULTIMODAL: SAFE, COMFORTABLE AND ACCESSIBLE TO ALL USERS



GREEN: REDUCE ENERGY USE, SUSTAINABLE AND LOW-MAINTENANCE



SMART: EFFICIENT AND MAXIMIZE TECHNOLOGY ADVANCE



BENEFITS OF COMPLETE STREETS

- Active Transportation
 - Walking, biking and taking transit
 - Improved public health

Obesity Rates in Adults Nationwide



Green Building Education Services

Of all trips:

39%

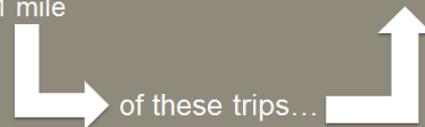
are less than
3 miles

17%

are less than
1 mile

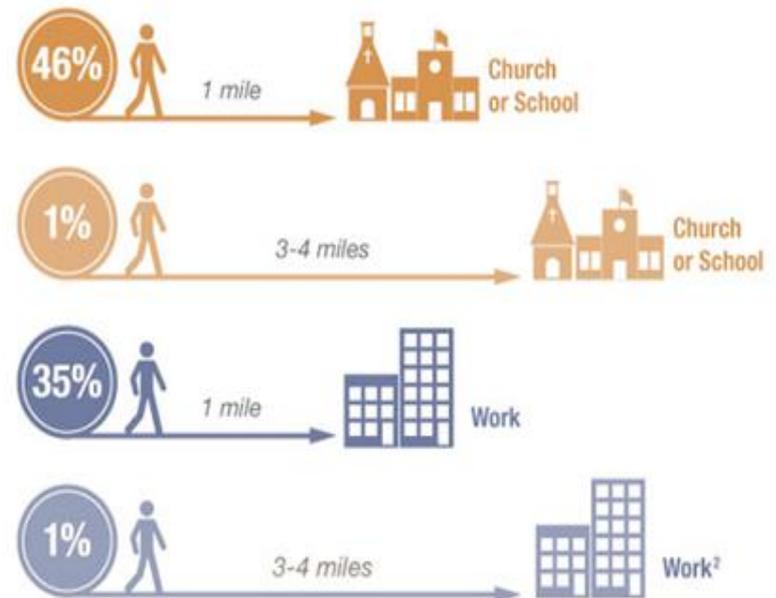
47%

are driven



National Household Travel Survey 2009

STUDIES SHOW PEOPLE WILL WALK TO DESTINATIONS:



BENEFITS OF COMPLETE STREETS

- Active living
 - Walkable and bikeable communities
 - Safe and accessible meeting places



BENEFITS OF COMPLETE STREETS

- Aging in Place
 - ADA Compliant street design
 - Mobility options
 - Wider sidewalks and shorter crossing distances
 - Accessible transit stops

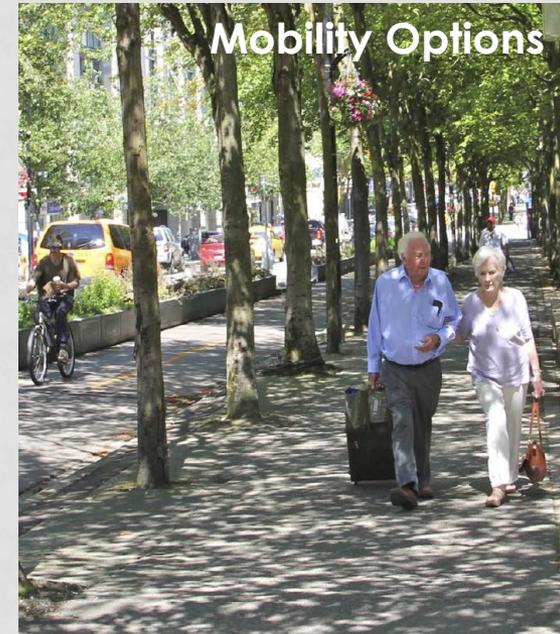
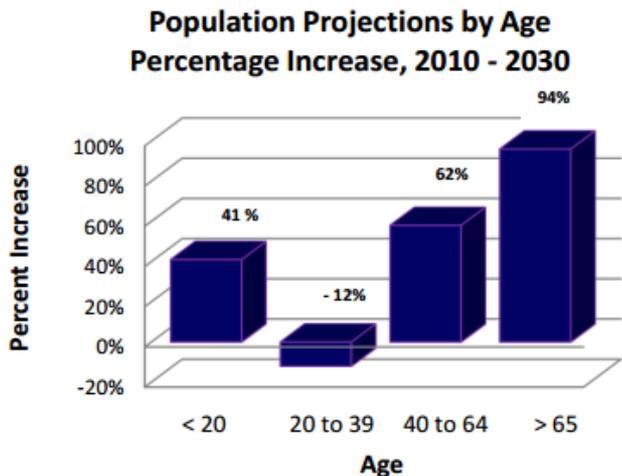


Photo courtesy of Green Building Educational Services



BENEFITS OF COMPLETE STREETS

- Sustainable design and development
 - Smart growth and mixed use development
 - Green infrastructure and storm water management

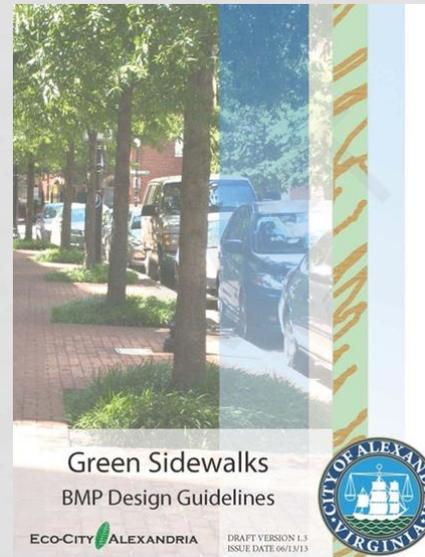
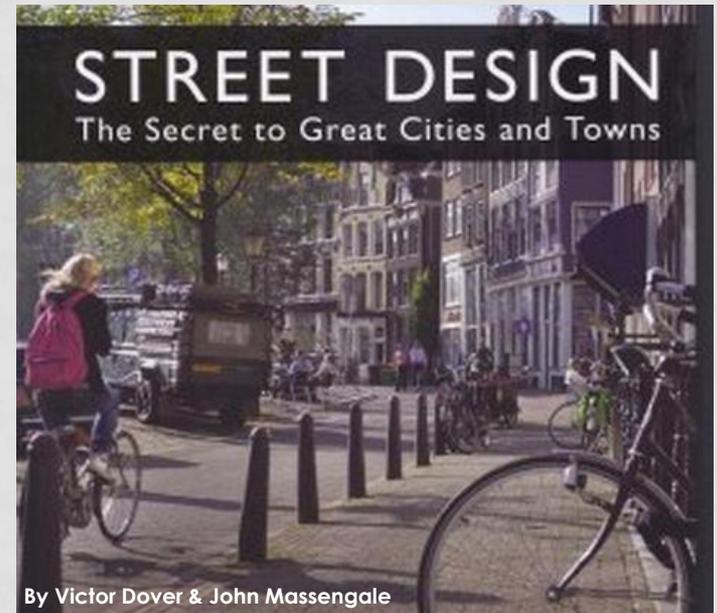


Photo courtesy of Green Building Educational Services



CITY OF ALEXANDRIA COMPLETE STREETS POLICY

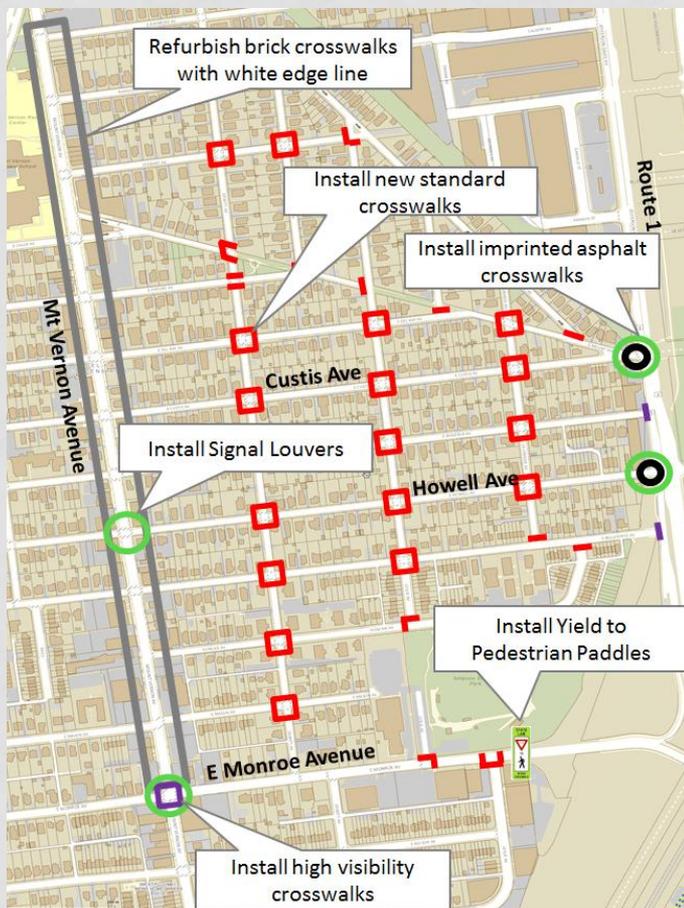
- Complete Streets Policy adopted by City Council in 2011
- The City shall incorporate to the extent possible Complete Streets infrastructure sufficient to **enable reasonably safe travel along and across the right-of-way for each category of users**
- The City shall incorporate Complete Streets infrastructure into existing public streets to **improve the safety and convenience of users and construct and enhance the transportation network for all users**



CITY OF ALEXANDRIA COMPLETE STREETS PROGRAM

- Comprehensive Neighborhood Projects

- Access to Parks



CITY OF ALEXANDRIA COMPLETE STREETS PROGRAM

- Street design for resurfacing



- Access to Transit



CITY OF ALEXANDRIA COMPLETE STREETS PROGRAM

- Safe Routes to School
- High Pedestrian Crash Locations



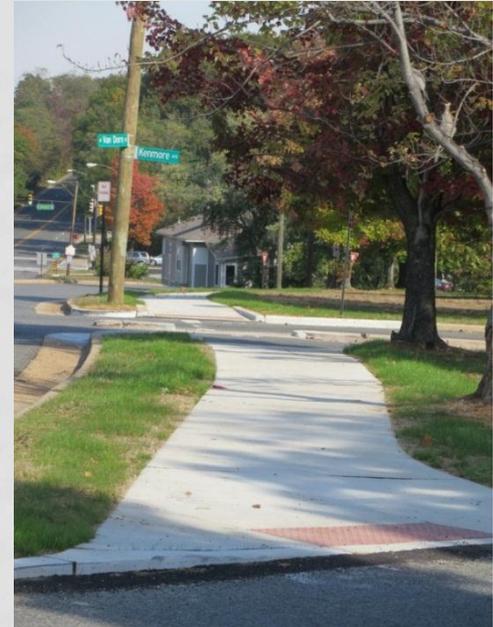
CITY OF ALEXANDRIA COMPLETE STREETS PROGRAM

- Bicycle facilities
 - Bicycle parking
 - On-street bike facilities
 - Bicycle signage



CITY OF ALEXANDRIA COMPLETE STREETS PROGRAM

- Pedestrian safety upgrades
 - Upgraded and new crosswalks
 - New sidewalks & curb ramps
 - Leading Pedestrian Intervals
 - Rapid Flashing Beacons
 - HAWK Signals
 - Signage



COMPLETE STREETS PROGRAM ACCOMPLISHMENTS 2013

- Achieved Silver Level Designation a Bicycle Friendly Community
- Conducted Complete Streets Training
- \$400,000 New Freedom Grant for pedestrian improvements at transit stops
- Developed a Complete Streets checklist to ensure Complete Streets compliance for all new development
- Updated Bicycle Parking Guidelines for new development
- Updated brick sidewalk policy to make more accessible sidewalks

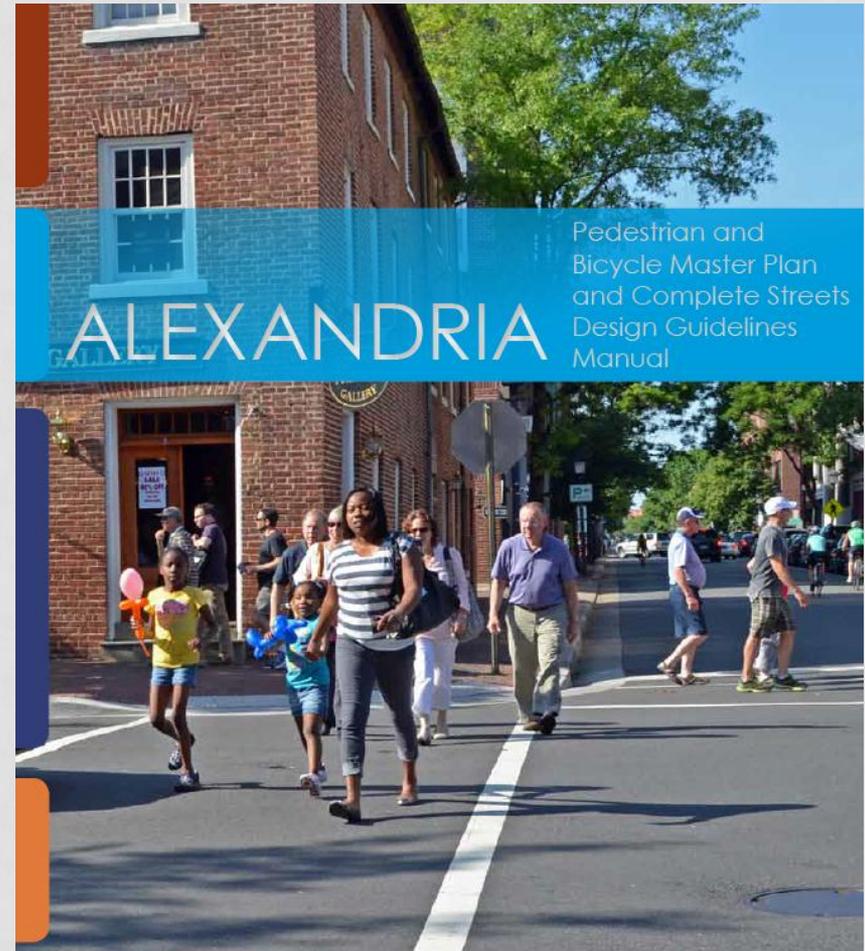


COMPLETE STREETS PROGRAM INFRASTRUCTURE IMPROVEMENTS 2013

Project	Total Quantity	Completed	Designed
Redesigned streets through resurfacing projects	8 lane miles	✓	
New sidewalk	7,550 feet	1,300	6,250
New and upgraded crosswalks	140 crosswalks	✓	
New pedestrian countdown signals	6 intersections	✓	
Signal modifications for conflict free crossings	1 intersection	✓	
Access to transit pedestrian improvements	5 bus stops	✓	
Rapid flashing beacons for uncontrolled crossings	3 crossings		✓
HAWK Signal for safer pedestrian crossing	1 crossing		✓
15MPH Flashing School Zone signs	6 schools	1	5
Intersection redesign for pedestrian safety	3 locations	✓	3
On street bicycle facility design	20 lane miles	12	8
Bicycle Box	1 intersection	✓	
New bicycle parking spaces	100 spaces	✓	

MOVING FORWARD

- Bicycle and Pedestrian Master Plan Update
- Development of Complete Streets Guidelines



Boston's Complete Streets

Bus Lines and Transit Prioritization at intersections improve the reliability of routes with high passenger volumes. Shields with amenities and real bus information improve convenience for passengers.

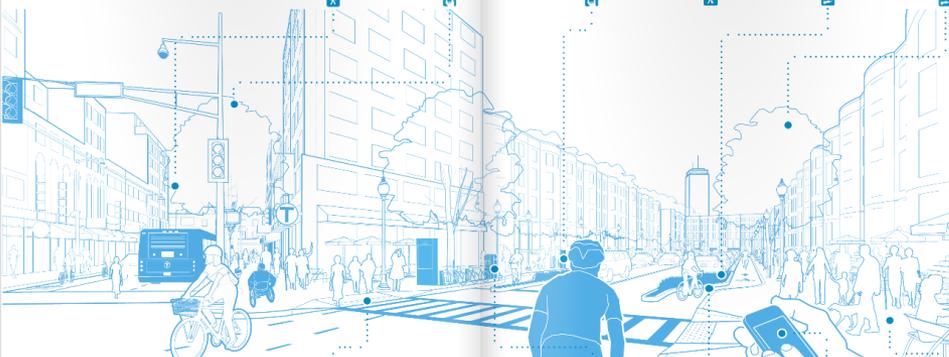
Intelligent Signals and Traffic Cameras manage traffic flow in real-time. They facilitate vehicle progression and reduce wait times, improving fuel efficiency and reducing GHG emissions.

Bicycle and Car Share Stations provide the convenience of personal transportation, low costs, and energy savings without the need for car ownership.

Minimum Lane Widths assist in the accommodation of pedestrians and bicycles when the available public right-of-way is limited in width. Narrower roadways also result in safer vehicle operations.

Rain Gardens and other greenscape elements at key locations divert stormwater directly to the soil. Maintainable rain gardens can filter pollutants, improve air quality, and provide greenery on the street.

Street Trees with sufficient rooting volume to thrive provide shade and beauty, support wildlife habitat and reduce air pollution, and energy consumption.



Electric Vehicle Charging Stations support the adoption of a new generation of cleanest vehicles. Linked to smart electric grids that use alternative energy sources such as solar and wind, they will help reduce dependence on fossil fuels and combat climate change.

Ease of Maintenance informs the design of roadways and sidewalks, favoring durable materials and maintenance agreements for special features to enhance the life and upkeep of Boston's streets.

Accessible Surfaces with smooth, slip-resistant materials for sidewalks and crosswalks create comfortable walking environments that make streets welcoming for people of all ages and abilities.

Permeable Surfaces for roadways and sidewalks help reduce flooding and erosion and preserve capacity in storm drains and combined sewers.

Smart Meters use smart prepaid cards, payment by mobile phones, and a law for optimal pricing facilitate more efficient use of limited curbside space.

Bicycle Lanes and Cycle Tracks create a citywide network that increases safety and encourages more people to bicycle.

Digital Tags and Information Panels integrated with street furniture and building facades enable wayfinding, community bulletin boards, trip planning, and place-based social networking.

Wide Sidewalks with unobstructed accessible pathways encourage walking. When combined with proper lighting, street trees, and vibrant street walls they are inviting, safer, and contribute to placemaking.

COMPLETE STREET PARTNERS

- Local civic associations
- Alexandria City Council
- Alexandria Transportation Commission
- Alexandria Traffic and Parking Board
- Alexandria Commission on Aging
- Alexandria Commission on Persons with Disabilities
- Alexandria Environmental Policy Commission
- Alexandria Bicycle and Pedestrian Advisory Committee
- Local Motion



HOW TO CONNECT

- Through your local civic association
- City of Alexandria Call.Click.Connect “Complete Streets”
- Local Motion Websites:
<http://alexandriava.gov/localmotion/info/default.aspx?id=49868>
- Hillary.Poole@AlexandriaVA.gov



Alexandria Bicycle and Pedestrian Advisory Committee

THANK YOU

QUESTIONS???