Smart Mobility

How we incorporate technology into our transportation system
The City’s Smart Mobility Framework laid out comprehensive strategies, but not priorities.

Smart mobility can address traffic flow and safety without costly changes to the roadway.

Partners are often needed to help expand the City’s capabilities.

Technology changes happen quickly and the City must be prepared.
# Smart Mobility Policies

The City of Alexandria will:

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<th>Policies</th>
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| Use technology to optimize operations for safe, efficient travel on City streets. | ✓ SM1  
 ✓ SM2  
 ✓ SM3  
 ✓ SM4 |
| Proactively plan for emerging and future transportation technologies to ensure that we can leverage innovation to meet our safety and efficiency goals. | ❑ SM1  
 ❑ SM2  
 ✓ SM3  
 ✓ SM4 |
Smart Mobility

Strategies

• **SM1.** Upgrade capabilities of the Traffic Management Center (TMC) to more effectively manage congestion and traffic incidents in real-time.

• **SM2.** Expand implementation of smart signal technology to enable detection and real-time signal adjustments based on travel conditions.

• **SM3.** Strategically invest in partnerships to expand City data, technology, and communications capabilities.

• **SM4.** Develop protocols and policies to accommodate autonomous vehicles and ensure that their adoption will support City goals.
Strategy SM1.
Upgrade capabilities of the Traffic Management Center (TMC) to more effectively manage congestion and traffic incidents in real-time.

- Implement automated interactive central conditions map to improve traffic visualizations.
- Expand coverage of closed-circuit television cameras.
- Improve communications with other TMCs.
- Incorporate resiliency and redundancy measures in the event of a failure, including a virtual back up.

What it means for you:
- A more connected traffic incident response system.
- More convenient travel with shorter incidents
- Improved safety with quicker incident response
Strategy SM2. 
Expand implementation of smart signal technology to enable detection and real-time signal adjustments based on travel conditions.

• Enable vehicle, bicycle, and pedestrian detection for more responsive signal timing.
• Integrate transit and emergency vehicle pre-emption.
• Accommodate improved data collection.

What it means for you:
• More convenient travel with connected and better-timed traffic signals
• Improved safety with pedestrian and bicycle detection and emergency vehicle preemption
Strategy SM3.
Strategically invest in partnerships to expand City data, technology, and communications capabilities.

- Explore platforms to integrate mobility data and decision-making, and improve user access to information.
- Develop a template for evaluating partnership opportunities.
- Allocate necessary resources to leverage data from partnerships.

Waze for Cities Data
Helping cities manage traffic for millions of drivers in real time and make better infrastructure decisions

Alexandria has joined the WAZE for Cities Program, enabling access to more detail and more residents access to information about traveling in the City.

Source: Waze

What it means for you:
- More connected citizens with better access to data
- More convenient travel with more information in one place
- Improved safety with better mobility management
Strategy SM4.
Develop protocols and policies to accommodate autonomous vehicles and ensure that their adoption will support City goals.

- Prepare for autonomous vehicles by developing maintenance and infrastructure plans to ensure street readiness.
- Identify opportunities to promote shared, electric implementation to reduce potential for increased emissions and congestion.
- Consider pilot projects to evaluate effectiveness.

What it means for you:
- Support for more convenient ways to travel
- Improved safety through preparedness
- Greater sustainability with successful adoption of shared, electric model