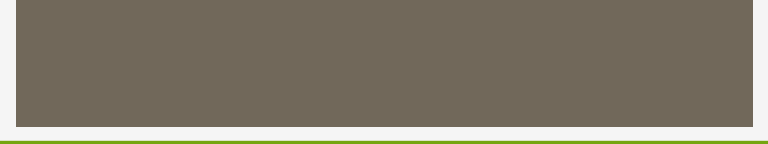




The Future of  
Transportation  
Technologies  
and Regional  
Mobility in  
Kansas City

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“The development of  
autonomous vehicle  
technology has recently  
shifted into overdrive.”

Autonomous Vehicles: A Policy Preparation  
Guide

(National League of Cities)

“ Cities that do nothing  
face major risks.”

Driverless Future:  
A Policy Roadmap for City Leaders  
(Arcadis, HR&A, Sam Schwartz)

# Technology Trends

- Increased widespread data and connectivity
- Advanced vehicle technologies
- Adoption of new technology-enabled mobility options
- Developments in technologies affecting freight movement and logistics
- Advances in transportation system management/operations

# US DOT Guidance

“NHTSA encourages **collaboration** and **communication** between **Federal, State and local governments and the private sector** as the technology evolves, and the Agency will continue to coordinate dialogue among all stakeholders. **Collaboration is essential** as our Nation embraces the many technological developments affecting our public roadways.”

# Regional Importance

- How will these technologies impact existing work?
- What regional goals can be met or addressed through deployment of new transportation technologies?
- What capacities need to be developed for successful deployment?
- What local and state policies need to be developed or amended?
- What are priority opportunities for pilot projects and targeted investments in technology and infrastructure?

# Areas of Analysis

- Infrastructure, Planning and Investment
- Data Management
- Environment and Land Use
- Travel Demand Management and System Performance
- Economic and Workforce Opportunity
- Equitable Access and Mobility Services
- Certification, Liability and Insurance

# Areas of Analysis

## **Equitable access and mobility services**

Consideration and mitigation of digital divide and access to services, opportunities for shared mobility services



# Equitable Access and Mobility Services

- App or technology-based solutions may make the transportation system less accessible to those with transportation disadvantages.
- Some percentage of the population will refuse to adopt new technologies regardless of potential impact on them or others.
- Level of human interaction – social needs, level of service needs (door-to-door versus curb-to-curb).
- Potential to move users to more appropriate levels of service to increase access for those with greater level of service needs.
- Great potential to provide higher levels of mobility to transportation disadvantaged populations if implemented thoughtfully and equitably.

# Areas of Analysis

## **Environment and land use**

Local policies for environmental impact mitigation  
and land use decisions

# Land Use and Environment

- How autonomous vehicles impact existing goals related to creating quality places, center and corridor planning, density, and mixed-use development.
- Shared versus individual ownership.
- Reclamation of land from the transportation system to green space or other green infrastructure improvements.
- Changes to operations of existing infrastructure – pick up/drop off areas, etc.
- Interaction of autonomous vehicles with the public transit system
- Large potential for safety improvements to users of all modes.

# Primary Recommendations

- Ongoing need for regional stakeholder education
- Land use policies – parking, curb-sharing (pick-up/drop-offs)
- Pricing strategies – operational, parking, registration, vehicle use
- Regional and multi-jurisdictional data sharing
- Equitable access to services and the transportation system



Overarching theme of  
all working groups?

Education, Education,  
Education.

# Where to find it?

- [www.MARC.org](http://www.MARC.org)

➔ Regional Planning

➔ Innovation

➔ Autonomous and  
Connected Vehicle  
Framework