Building a Smart Madison for Shared Prosperity

Yang Tao, PhD, PE
City Traffic Engineer

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Building a Smart Madison for Shared Prosperity
3 Main Components

- Intelligent data collection, analysis, and sharing
- Electric, connected and autonomous vehicles
- Smart infrastructure
State-of-the-Art Traffic Signal Systems

- Advanced traffic controllers
- Robust fiber optic communications network
- State-of-the-art signal management system
- Innovative detection and count systems
- Performance measurement systems
Adaptive Signal Control Technology

- The first adaptive corridor implemented on McKee Road – Fish Hatchery Road: Project of the Year Award
- The second adaptive corridor University Avenue: federal funding secured, construction underway
- The third corridor programmed on East Washington Ave: State grant secured
- More in planning: Mineral Point Road, etc.
Smart Street Lighting

- Energy efficiency
- Connected
- Remote control
- Outage reporting
- Host other smart city technologies
Smart Park Street Corridor

- Pilot and deploy connected vehicle technology to improve:
  - Safety
  - Mobility
  - Bus on-time performance
  - Equity
- Vehicle to infrastructure (V2I), Vehicle to Vehicle (V2V), Vehicle to Everything (V2X)
- Madison and Wisconsin as the Upper Midwest hub for CV & AV
Autonomous Microtransit

April 2018, UW-Madison
Collaboration is Key

- The self-driving future: utopia vs. dystopia

- Collaboration across sectors is needed for the greater public good:
  - Governmental policy
  - Academic research
  - Industry cooperation
  - Public engagement
Smart Cities Collaborative

A learning and support network providing direct technical assistance to leading edge cities advancing smart urban mobility strategies.
A Leader in the Nation

2018 Transportation Achievement Award
Category: Planning
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Contact

Yang Tao, PhD, PE
City Traffic Engineer
City of Madison, Wisconsin
ytao@cityofmadison.com