ATCMTD

Advanced Transportation and Congestion Management Technologies Deployment

For more information, go to www.fhwa.dot.gov/fastact/factsheets/advtranscongmgmtfs.cfm

EVALUATION OVERVIEW

All data is based on 48 grants awarded from Fiscal Year (FY) 2016 through FY 2020.

Grantee evaluations demonstrate the effects of grantees' projects by providing insight on the benefits of the technology deployments and the overall effectiveness in advancing Fixing America's Surface Transportation (FAST) Act (Pub. L. No. 114-94) goals.
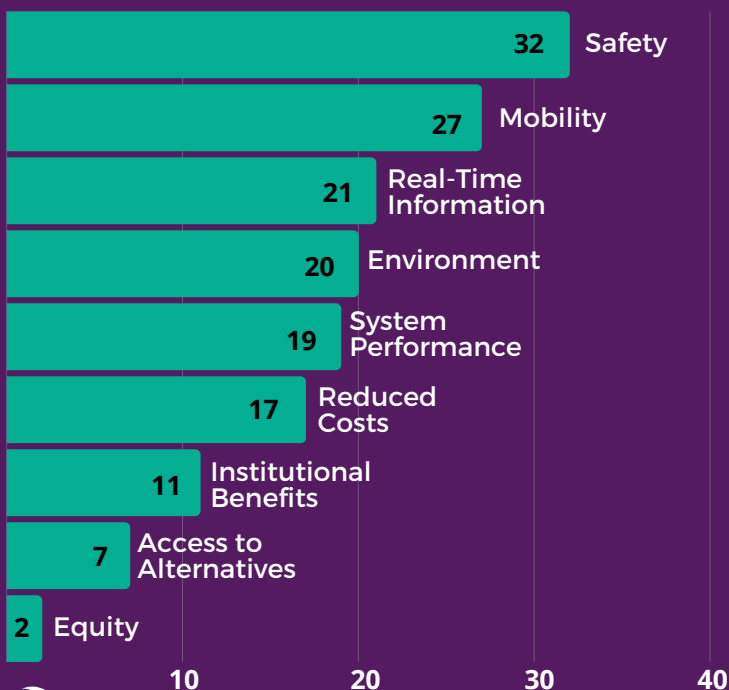
Common Technologies for Key FAST Act Goals

Safety — Connected Vehicles and Infrastructure, Artificial Intelligence, Machine Learning, Advanced Analytics

Mobility — Adaptive Signals, Managed Lanes and Tolling, Integrated Corridor Management

Environment — Automated Vehicles, Freight Technologies, Real-Time Traveler Information

Number of Projects by Goal

Most projects set multiple FAST Act goals.

Goal	Number
Safety	32
Mobility	27
Real-Time Information	21
Environment	20
System Performance	19
Reduced Costs	17
Institutional Benefits	11
Access to Alternatives	7
Equity	2

(x-axis: 10, 20, 30, 40)

Common Performance Measures

Improved Safety
- Number/rate of crashes
- Incident response time
- Crash type/trend
- Speed

Reduced Congestion/ Improved Mobility
- Travel time/reliability
- Delay
- Speed
- Miles traveled

Reduced Environmental Impacts
- Emissions
- Fuel savings/fuel consumption/idling
- Occupancy per vehicle

Improved System Performance
- Mobility measures
- On-time performance
- System performance
- Technology effectiveness

Enhanced Access to Transportation Alternatives
- Number of passengers/ridership
- User satisfaction
- Number of trips/rides

Institutional Benefits
- Stakeholder information sharing
- Improved access to data
- Improved understanding of technologies

Reduced Costs
- Cost comparison
- Net present value
- Benefit-cost analysis/ratio

Effectiveness of Real-Time Transportation Information
- User feedback/perception
- Number of users aware of/using information

U.S. Department of Transportation
Federal Highway Administration

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Non-Binding Contents

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