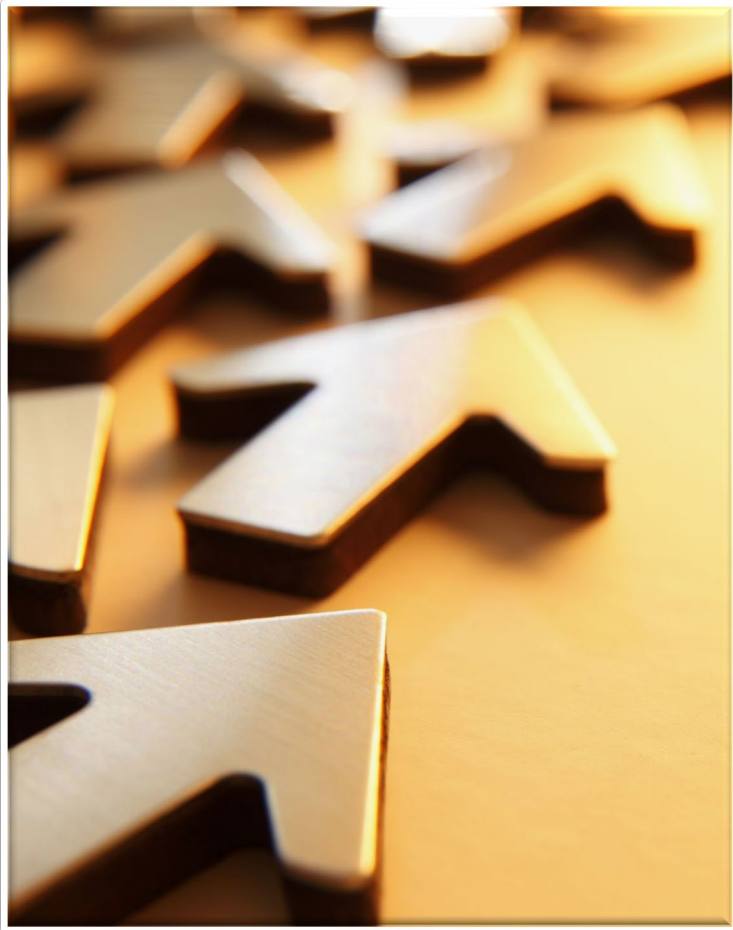




2023 NOCoE TSMO Trends

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TSMO Trends Survey

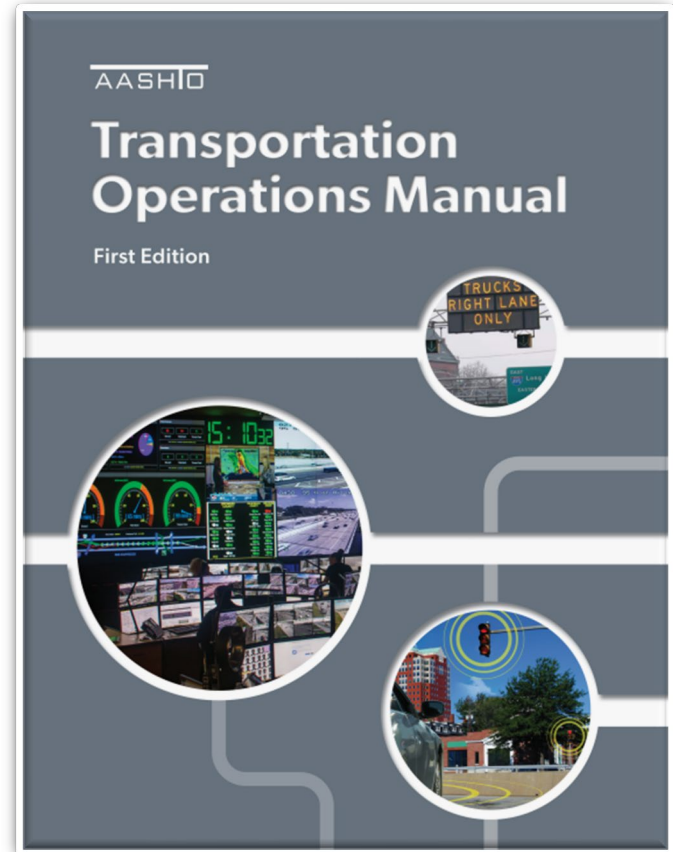


TSMO Trends Survey Goals

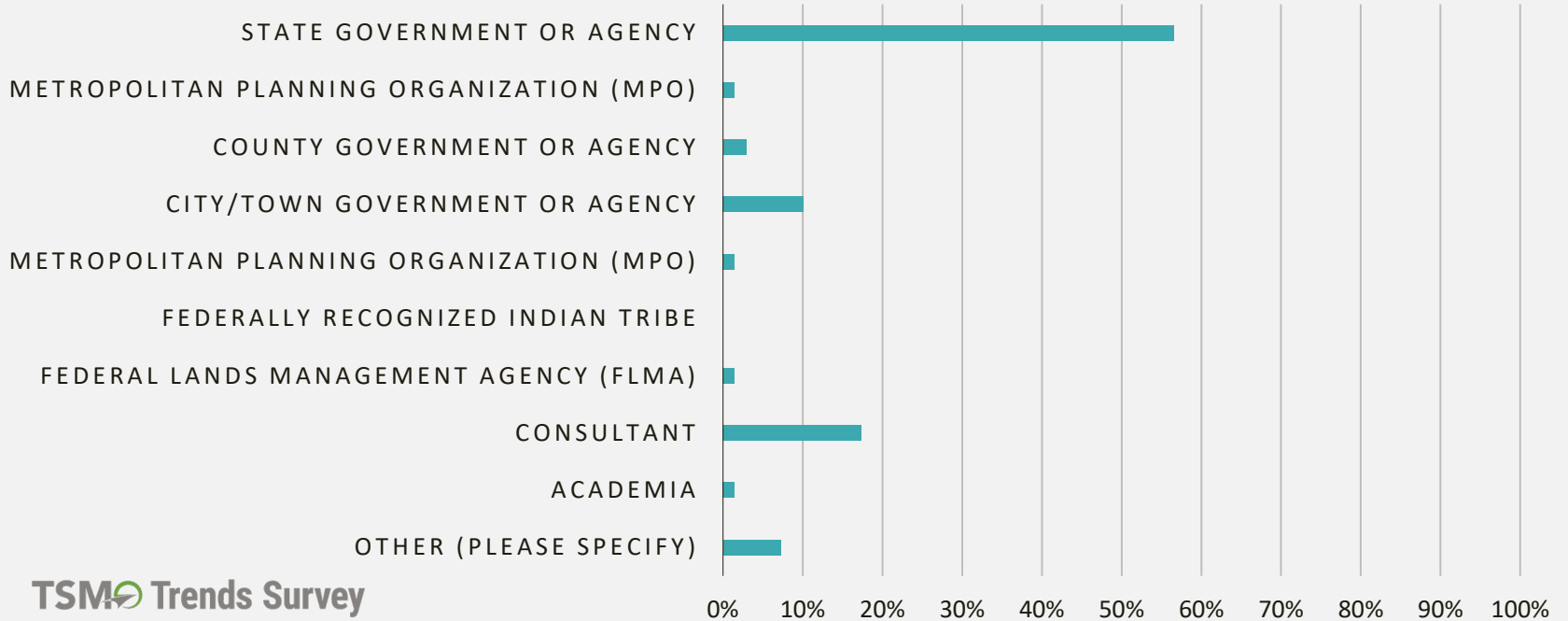
- Establish TSMO practice trend line
- Support advancement of Transportation Operations Manual
- Identify TSMO strategies agencies would like NOCoE to further explore in webinars, peer exchanges, case studies, etc.

TSMO Trends Survey Structure

- Part 1: Attract, develop, sustain, and expand the TSMO workforce
- Part 2: Accelerate deployment of current and emerging TSMO practices (technology and strategies)
- Part 3: Mainstream TSMO as a core function of providing transportation system solutions for all



Survey Responders



TSM Trends Survey

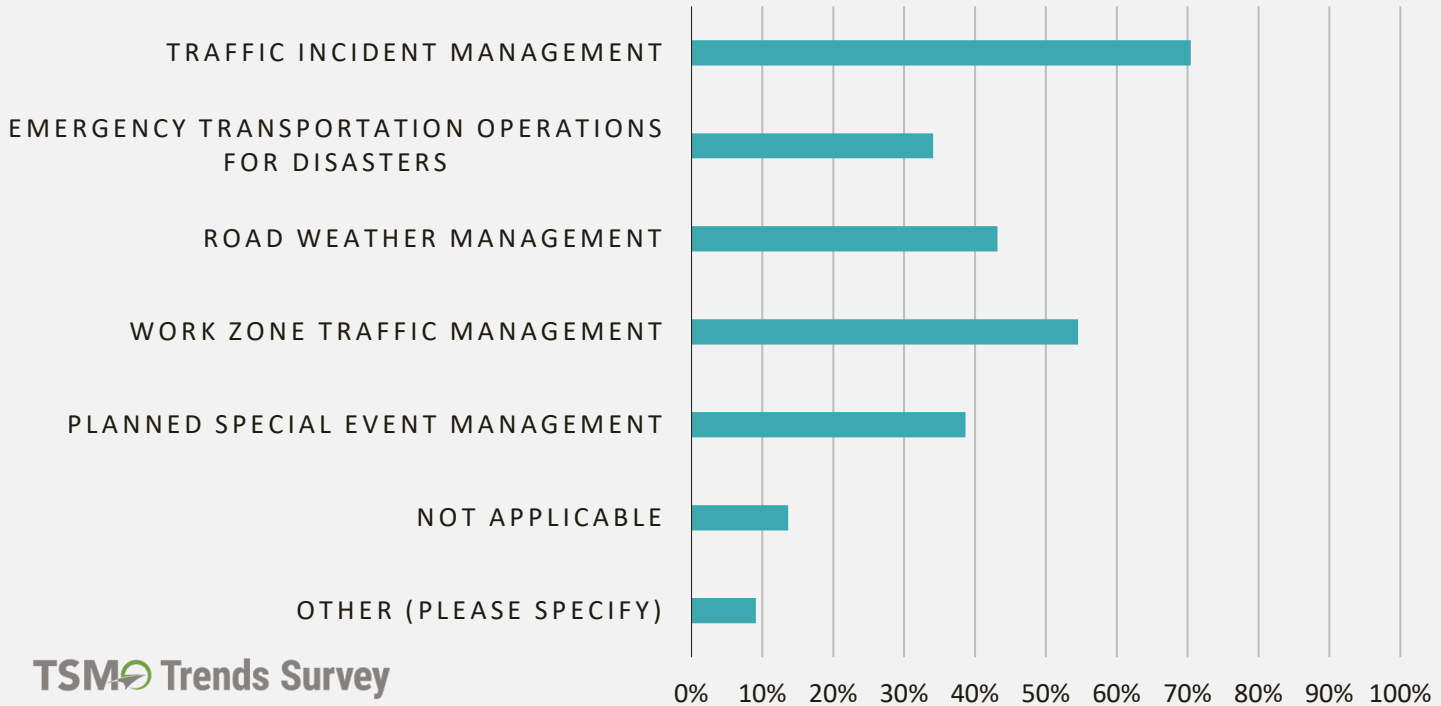
Accelerate deployment of current and emerging TSMO practices (technology and strategies)

Survey Question Topics: Accelerate Deployment of TSMO Practices (Technology & Strategies)

Strategies Mapped to Transportation Operations Manual (Parts E & F)

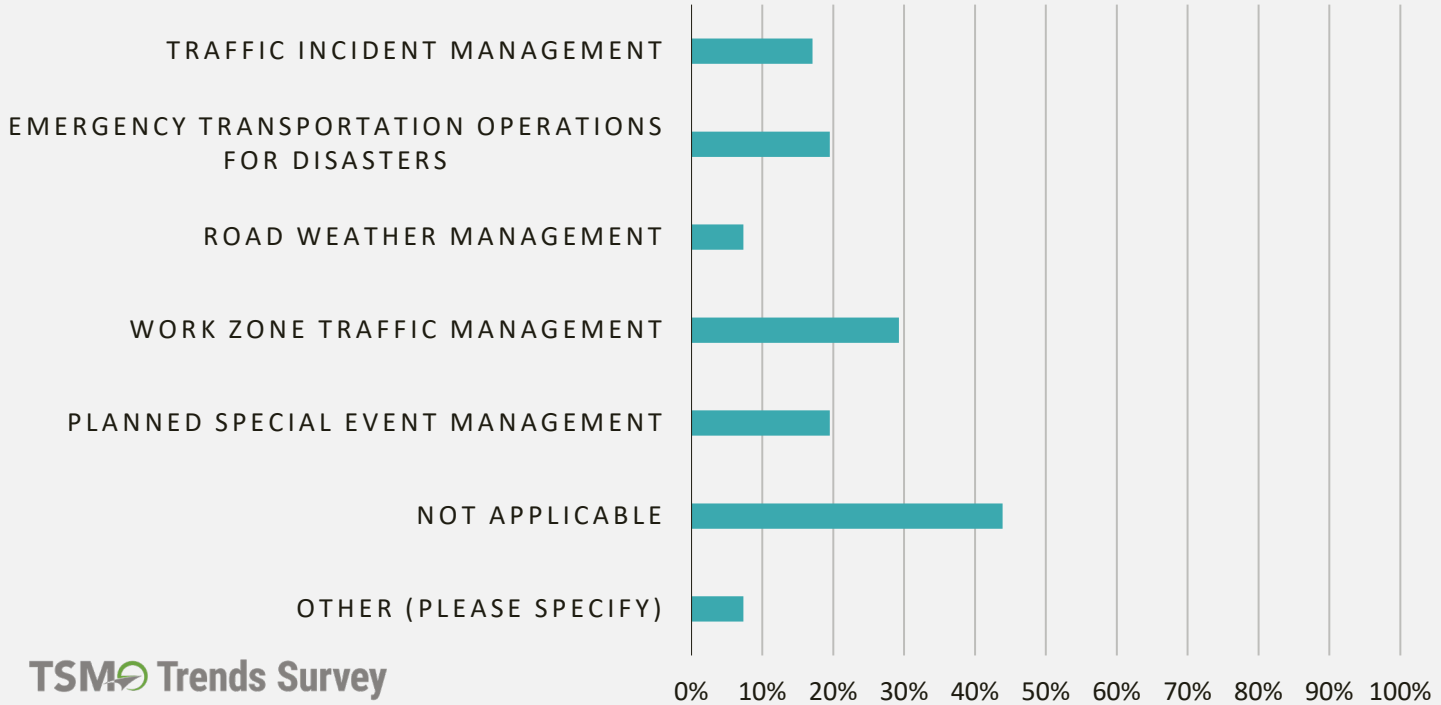
- Event Management
- Freeway Management
- Arterial Management
- Freight
- Advanced Integrated Tactics
- Active Demand & Parking Management
- Active Transportation
- Transit
- Tolling & Road Pricing
- Technology Trends
- Industry Trends

Event Management Strategies – Highest Payoff



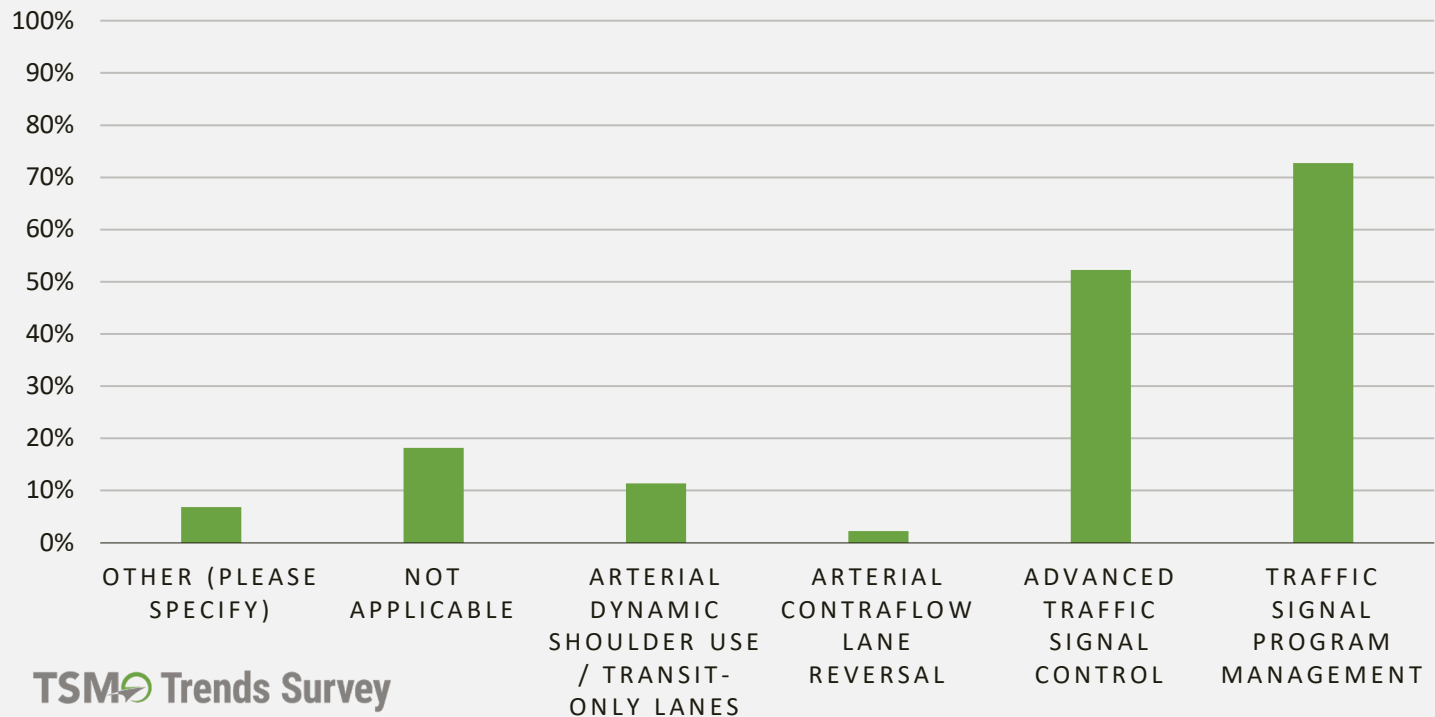
TSM Trends Survey

Event Management – Most Difficult Challenges



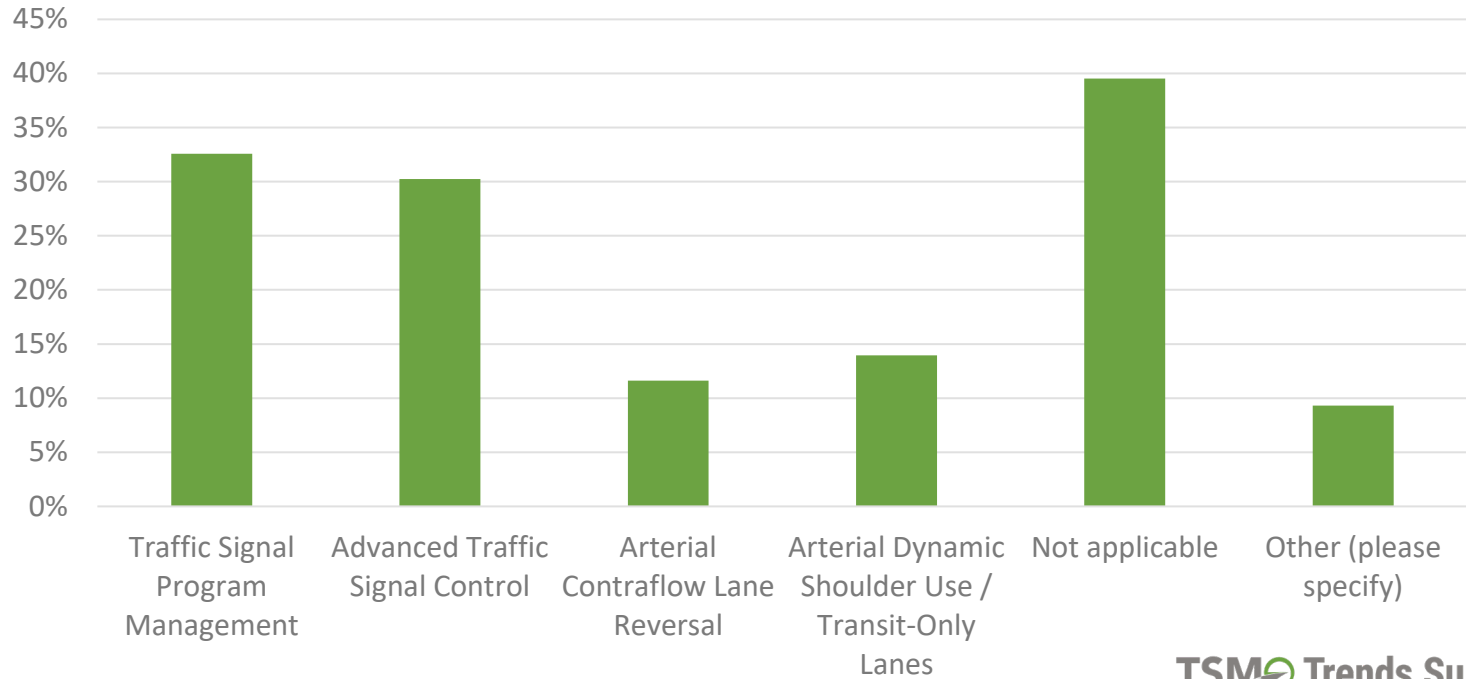
TSM Trends Survey

Arterial Management - Highest Payoff



TSM Trends Survey

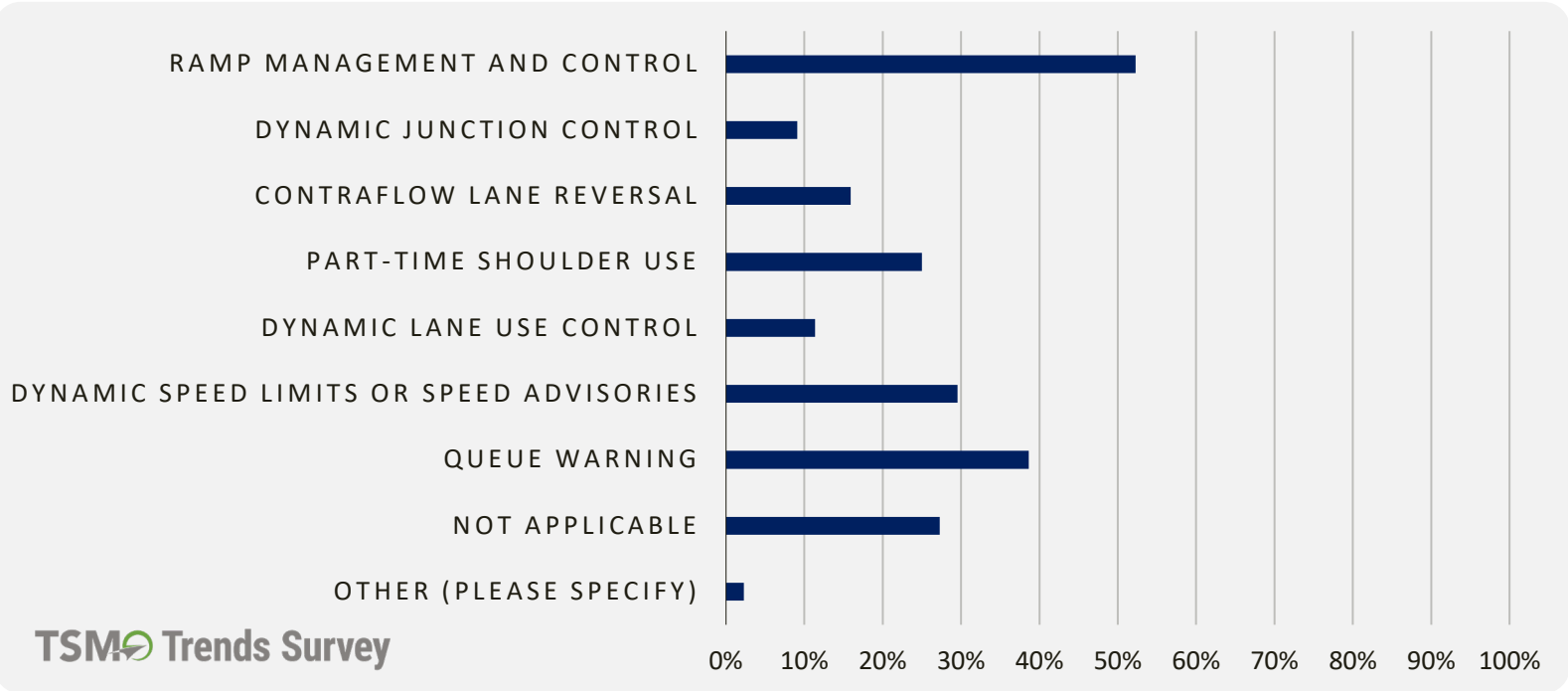
Arterial Management – Most Difficult Challenges



TSM Trends Survey

Freeway Management

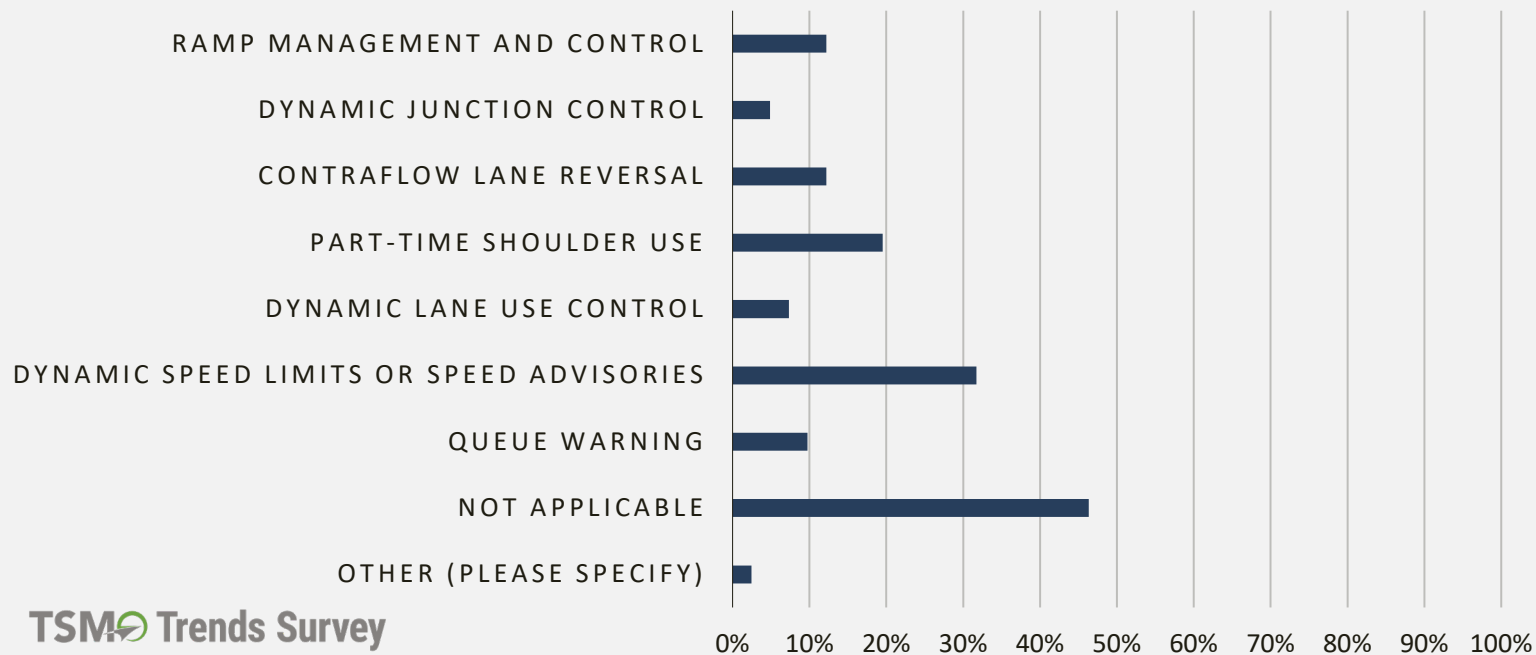
TSMO strategies with the highest pay-off for your agency:



TSM Trends Survey

Freeway Management

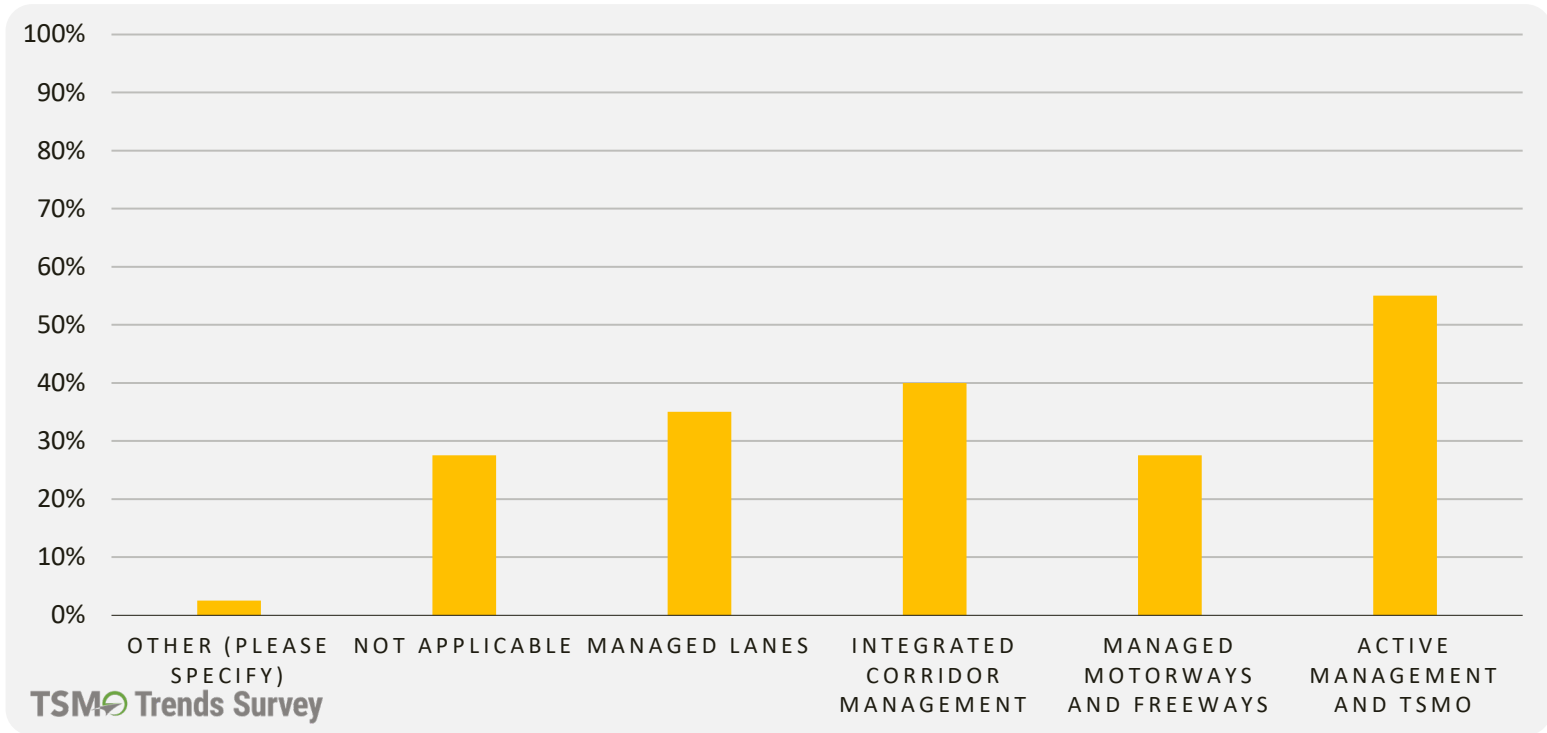
TSMO strategies that your agency has tried to deploy and encountered the most difficult challenges:



TSM Trends Survey

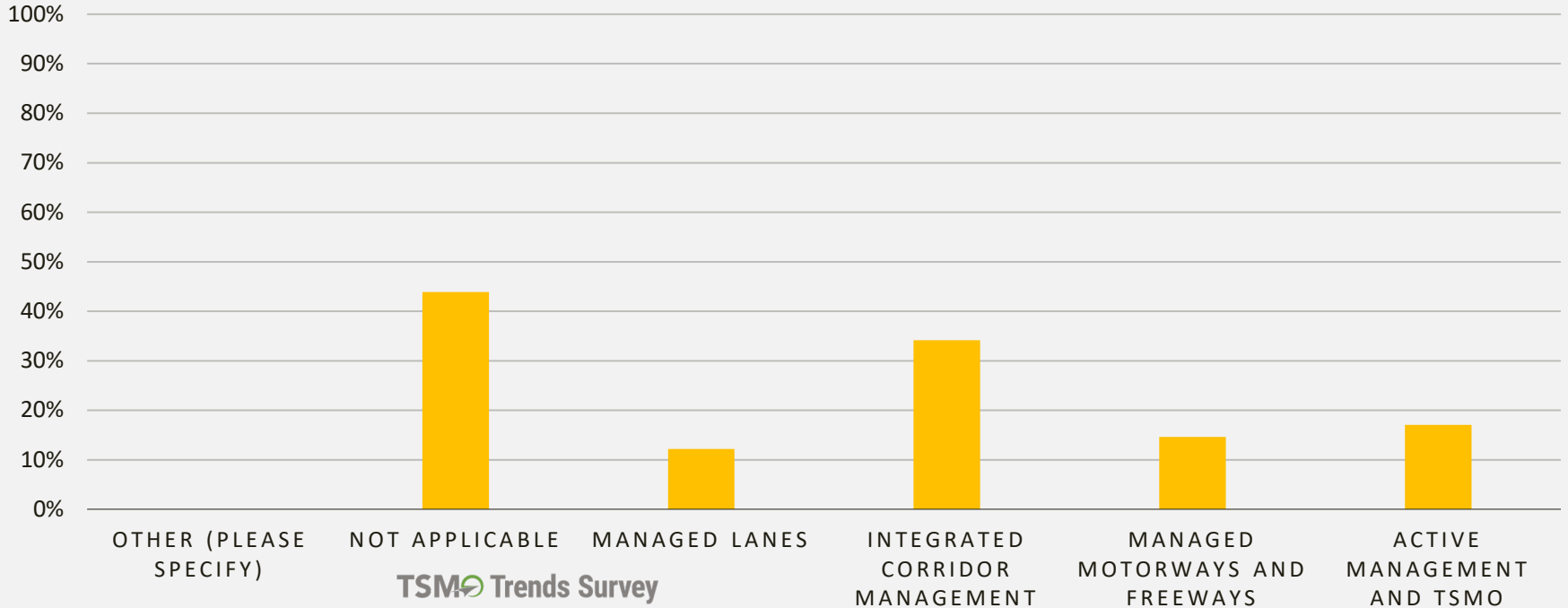
Advanced Integrated Tactics

TSMO strategies with the highest pay-off for your agency:



Advanced Integrated Tactics

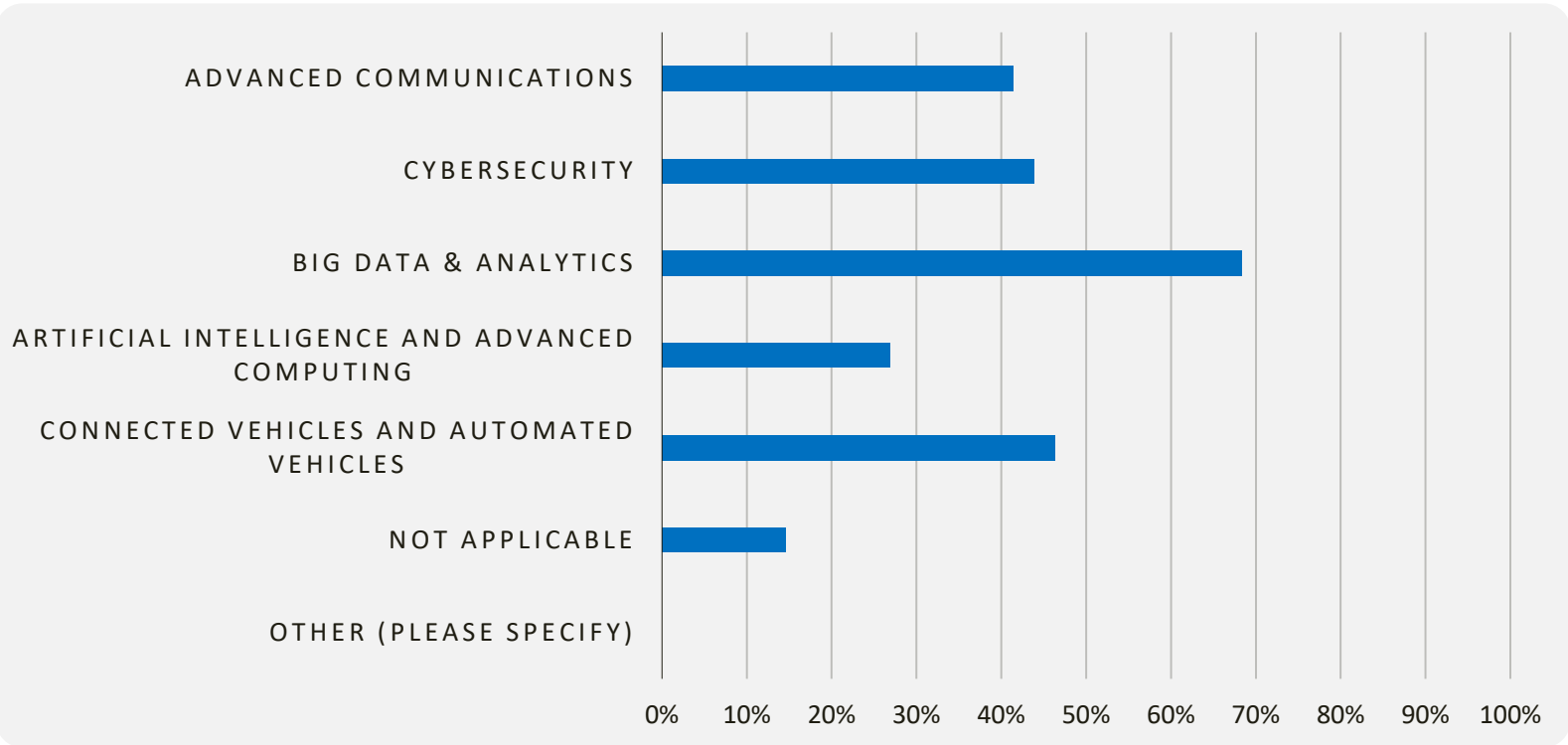
TSMO strategies that your agency has tried to deploy and encountered the most difficult challenges:



TSM Trends Survey

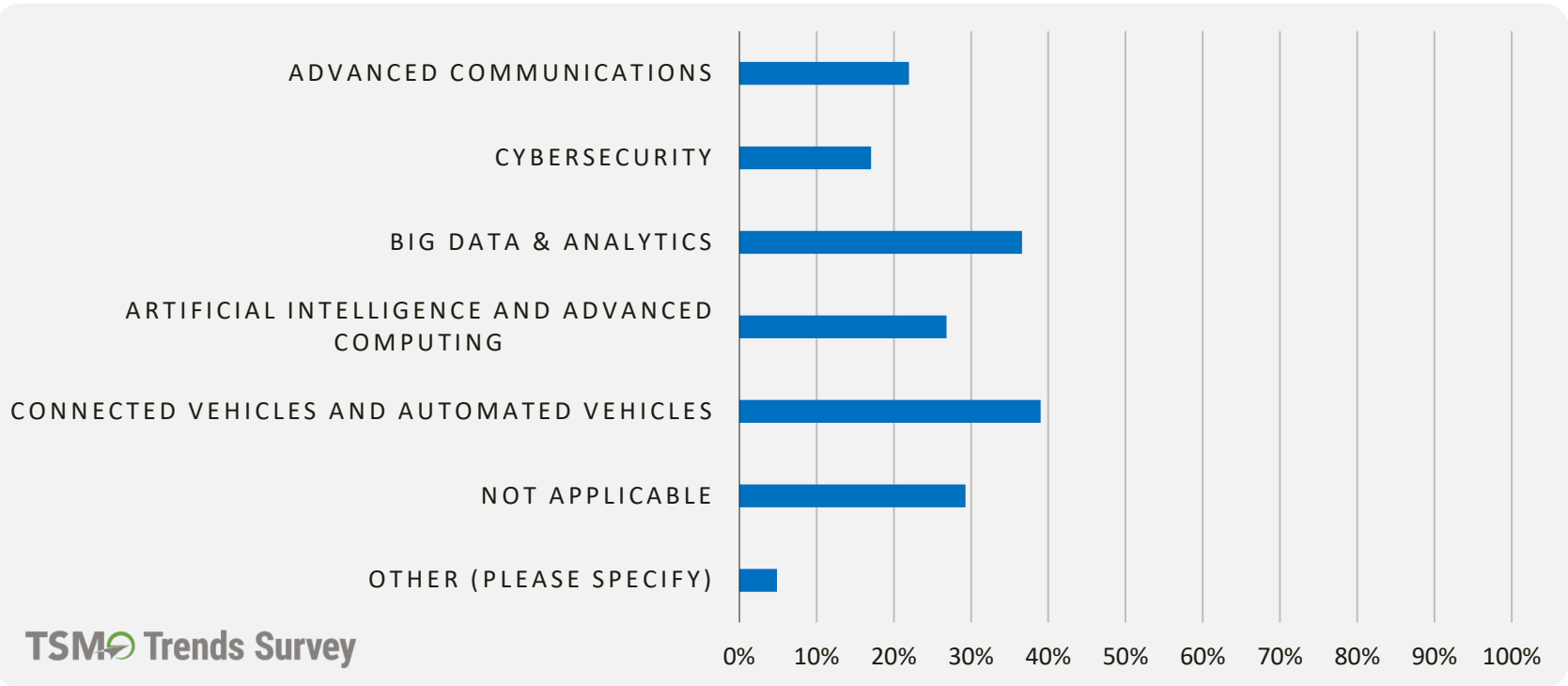
Technology Trends

TSMO strategies with the highest pay-off for your agency:



Technology Trends

TSMO strategies that your agency has tried to deploy and encountered the most difficult challenges:



TSM Trends Survey

**Attract, develop, sustain, and
expand the TSMO workforce**

Part 1: Attract, develop, sustain, and expand the TSMO workforce – Recruitment

Strengths

1. Flexibility (e.g., flexible hours, remote work): 67%
2. Work-life balance, stability, benefits: 65%
3. Strong University partnerships for co-ops/interns: 42%

Challenges

1. Salaries and pay scales: 65%
2. Finding candidate pools: 62%
3. Awareness (e.g., lack of workforce understanding of the role of TSMO): 45%



Part 1: Attract, develop, sustain, and expand the TSMO workforce – Retention

Strengths

1. Work-life balance, stability, benefits: 71%
2. Flexibility (e.g., flexible hours, remote work): 67%
3. Purpose (making a societal difference): 42%

Challenges

1. Pay rates: 80%
2. Competition: 69%
3. Retention of younger professionals: 57%



Part 1: Attract, develop, sustain, and expand the TSMO workforce – Diversity, Equity, and Inclusion

Strengths

1. DE&I is included in agency strategic planning: 58%
2. Formal hiring equity guidelines and hiring practices: 42%
3. Employee newsletter includes profiles with DE&I in mind: 35%

Challenges

1. Lack of understanding: 30%
2. Remote work can make inclusion more difficult: 22%
3. Barriers and inherent biases in hiring practice : 20%



Part 1: Attract, develop, sustain, and expand the TSMO workforce – Training

Strengths

1. Support for employees to pursue certifications: 67%
2. Operations Academy training: 60%
3. Partnerships with universities/community colleges: 53%

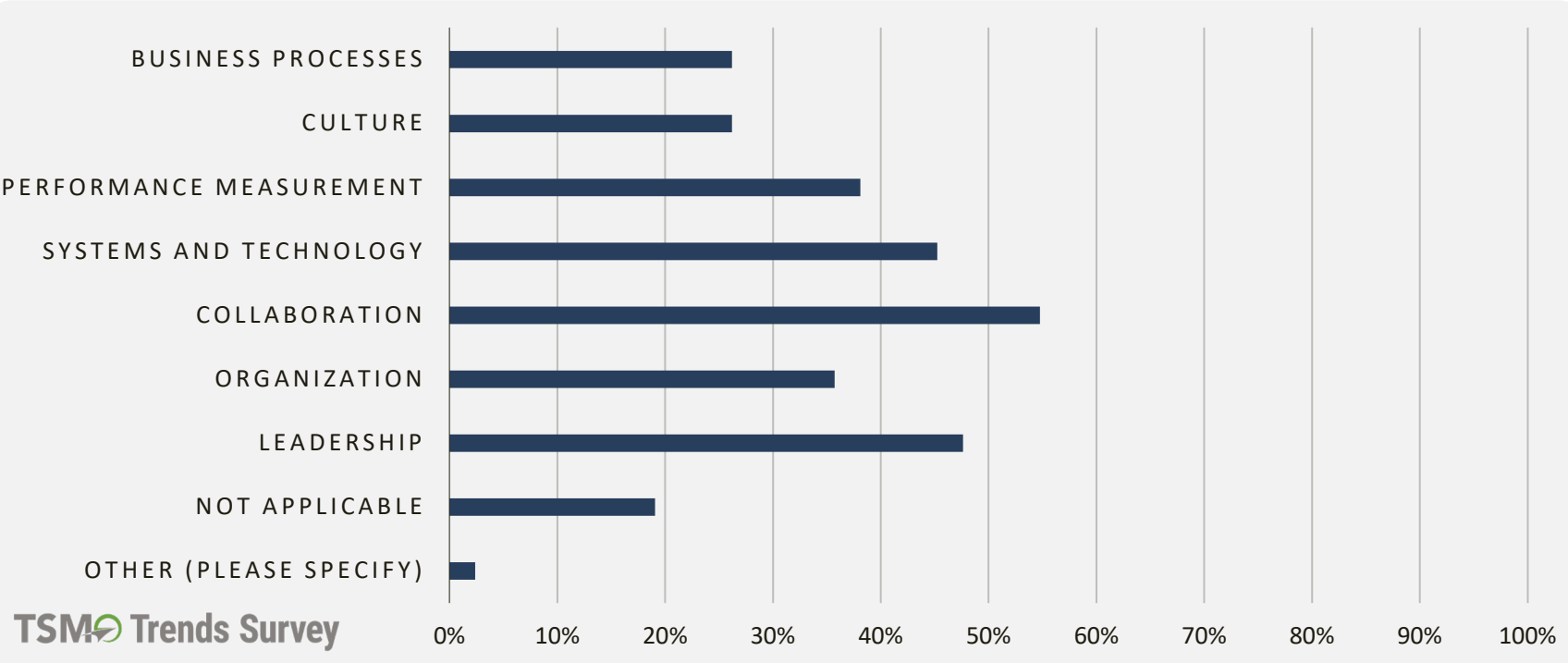
Challenges

1. Need to establish career paths for all positions: 69%
2. Limited awareness of TSMO across most transportation agencies: 56%
3. Better understanding of tuition reimbursement programs: 22%



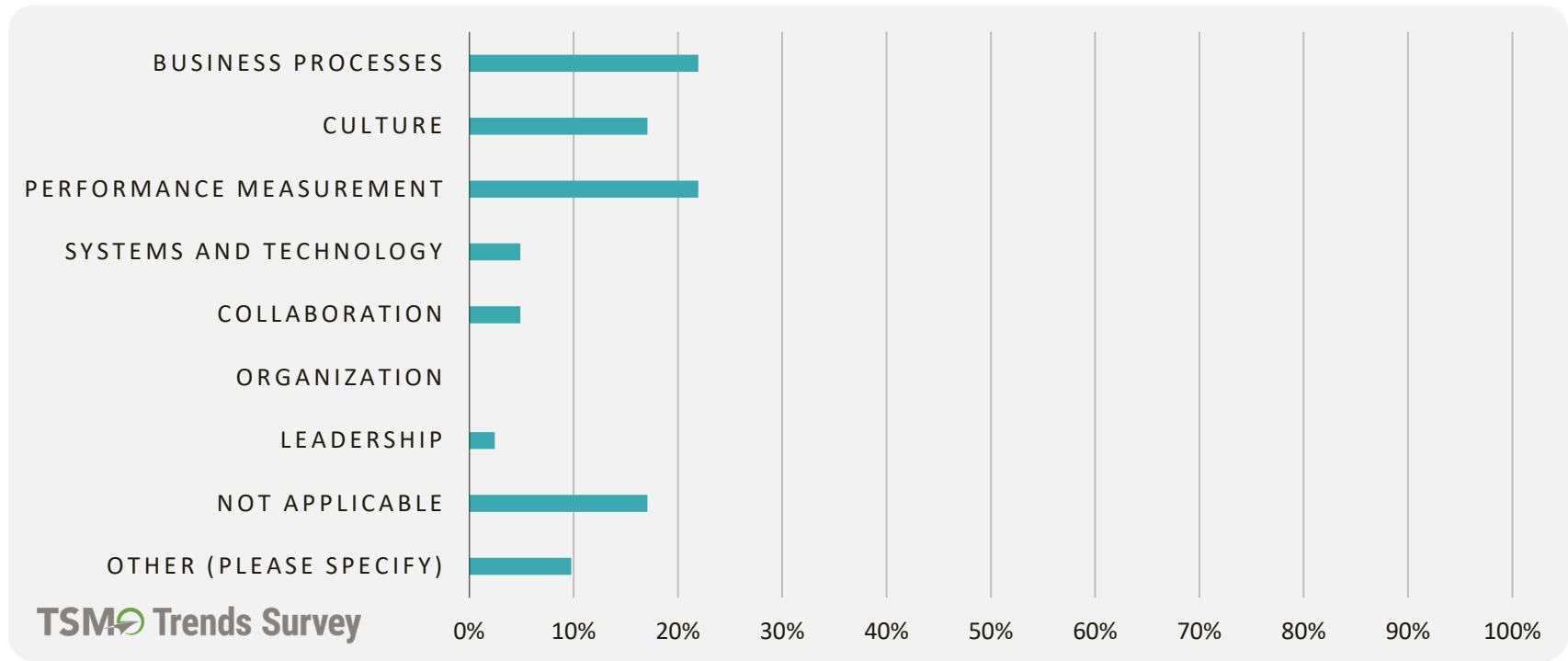
**Mainstream TSMO as a core
function of providing
transportation system solutions
for all**

Please select the areas of strength for your agency regarding mainstreaming TSMO:



TSM Trends Survey

Based on your agency's experience, please select the areas with opportunity for improvement for mainstreaming TSMO:



TSM Trends Survey