Regional Transportation Operations & Technology
TIP Set-Aside Program

Presented by:
Steve Cook and Greg MacKinnon
Board of Directors
February 19, 2020
• Traffic Operations (Signal) Program – 1989
  • Improve interjurisdictional timing and coordination
  • Capital element (system expansion and connections) – 1993

• Intelligent Transportation Systems (ITS) Pool / Deployment Program
  • Started in 2005 – capital and system projects
  • Maintain federally required “ITS Architecture”

• RTO Working Group
  • Technical staff from local jurisdictions, RTD, CDOT, others
RTO Typical types of projects

- New upgraded traffic signal systems and equipment
- Detection system and equipment at intersections and along roadways (cars, trucks, bicycles, pedestrians)
- Fiber optic communication networking
- Closed-circuit TV (CCTV) cameras – surveillance and monitoring
- Traffic Management Centers (TMC)
- Data management and performance monitoring/measurement systems

Important Theme: Improve Situational Awareness
RTO&T TIP Set-Aside Program

• Part of new 2020-2023 Transportation Improvement Program (TIP)

• 4 other set-asides in the TIP
  • Community Mobility Planning and Implementation
  • Transportation Demand Management (TDM) Services
  • Air Quality Improvements
  • Human Service Transportation

• $5 Million per year for RTO&T Set-Aside (Total = $20 million)
  • ~$13+ Million remaining
  • Call for projects in 2020
RTO&T Program 2020 Call For Projects

• Overall guidance from Advanced Mobility Partnership (AMP)
  • Foundational system and infrastructure priorities
  • Project type priorities
  • Corridor priorities
  • Compatibility, collaboration, interoperability

• Eligibility rules

• Evaluation criteria
**Advanced Mobility Partnership (AMP)**

**AMP Executive Committee**
Meet Quarterly

Executive Directors
CDOT  DRCOG  RTD  Denver Metro Chamber

Determine priorities, forward policy-level recommendations to appropriate policy group, direct the AMP Working Group.

**AMP Working Group**
Meet Monthly

**Voting Members**
RTD  CDOT  DRCOG  Chamber  UTAC Rep

**Advisors/Ad Hoc**
Local Governments  TAC Chair  RTO Rep  NREL  Businesses  Smart Cities Alliance  Others

Identify technical and policy issues, research or solicit solutions, identify priorities, prepare recommendations, coordinate activities, track progress.

**Consultation**
Corridor Priority Action Categories

- Corridor prioritization implied in Mobility Choice Blueprint tactical actions
  - 2.4: Create a process to prioritize corridors for technology projects
  - 2.5: Implement transit priority on all major bus corridors
  - 2.6: Pilot integrated corridor management on then arterial corridors
  - 2.7: Implement “smart corridor” operations on all regional freeways
  - 2.9: Pilot mobility technologies on mountain corridors
Project Type Priorities

1. Extend traffic signal systems
2. Integrated and advanced traffic signal systems
3. Performance measurement and monitoring systems
4. Travel time monitoring and performance measurement systems
5. Regional data sharing and coordinated traveler information improvements
6. Expand traffic camera systems – focusing on interjurisdictional sharing
7. Other field infrastructure for advanced functions – detection, connected vehicle equipment, etc.
Draft Evaluation Criteria & Weighting

- 25% - Travel reliability and air quality benefits
- 20% - Need in geographic area of project
- 15% - Collaboration and partnerships
- 15% - Address RTO&T objectives
- 10% - Align with Metro Vision implementation
- 10% - Innovation and transferability
- 5% - Risk management plan

DRAFT – under development
RTO&T Set-Aside: Multi-Step Application Process

1. Pre-Application workshop
2. Letter of Intent (LOI) from project sponsor
3. LOI Review and screening
4. Sponsors complete and submit applications
5. Applications reviewed and scored
6. Project selection recommendation
<table>
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<th>Event</th>
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<tr>
<td><strong>AMP Working Group</strong></td>
<td>February 4</td>
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<td><strong>RTO Working Group</strong></td>
<td>February 26</td>
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<td><strong>AMP Working Group</strong></td>
<td>March 3</td>
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<td><strong>TAC rec. Criteria &amp; Process</strong></td>
<td>March 23</td>
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<td><strong>LOI and Application Templates</strong></td>
<td>Early April</td>
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<td><strong>RTC rec. Criteria &amp; Process</strong></td>
<td>April 14</td>
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<td><strong>Board action – Criteria &amp; Process</strong></td>
<td>April 15</td>
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<td><strong>Sponsor workshop</strong></td>
<td>April 22</td>
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<td><strong>LOI Deadline</strong></td>
<td>May 13</td>
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<td><strong>LOI Discussion at RTO WG</strong></td>
<td>June 3</td>
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<td><strong>Application Deadline</strong></td>
<td>July 8</td>
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<td><strong>Staff recommendations of projects to RTO &amp; AMP WGs</strong></td>
<td>July 29 / Aug 4</td>
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<td><strong>TAC recommendation</strong></td>
<td>August 24</td>
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<td><strong>RTC recommendation</strong></td>
<td>September 15</td>
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<td><strong>Board approval of projects</strong></td>
<td>September 16</td>
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RTO – Regional Transportation Operations  
AMP – Advanced Mobility Partnership  
LOI – Letter of Interest