



# Regional Transportation Operations & Technology TIP Set-Aside Program

*Presented by:*

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Board of Directors  
February 19, 2020



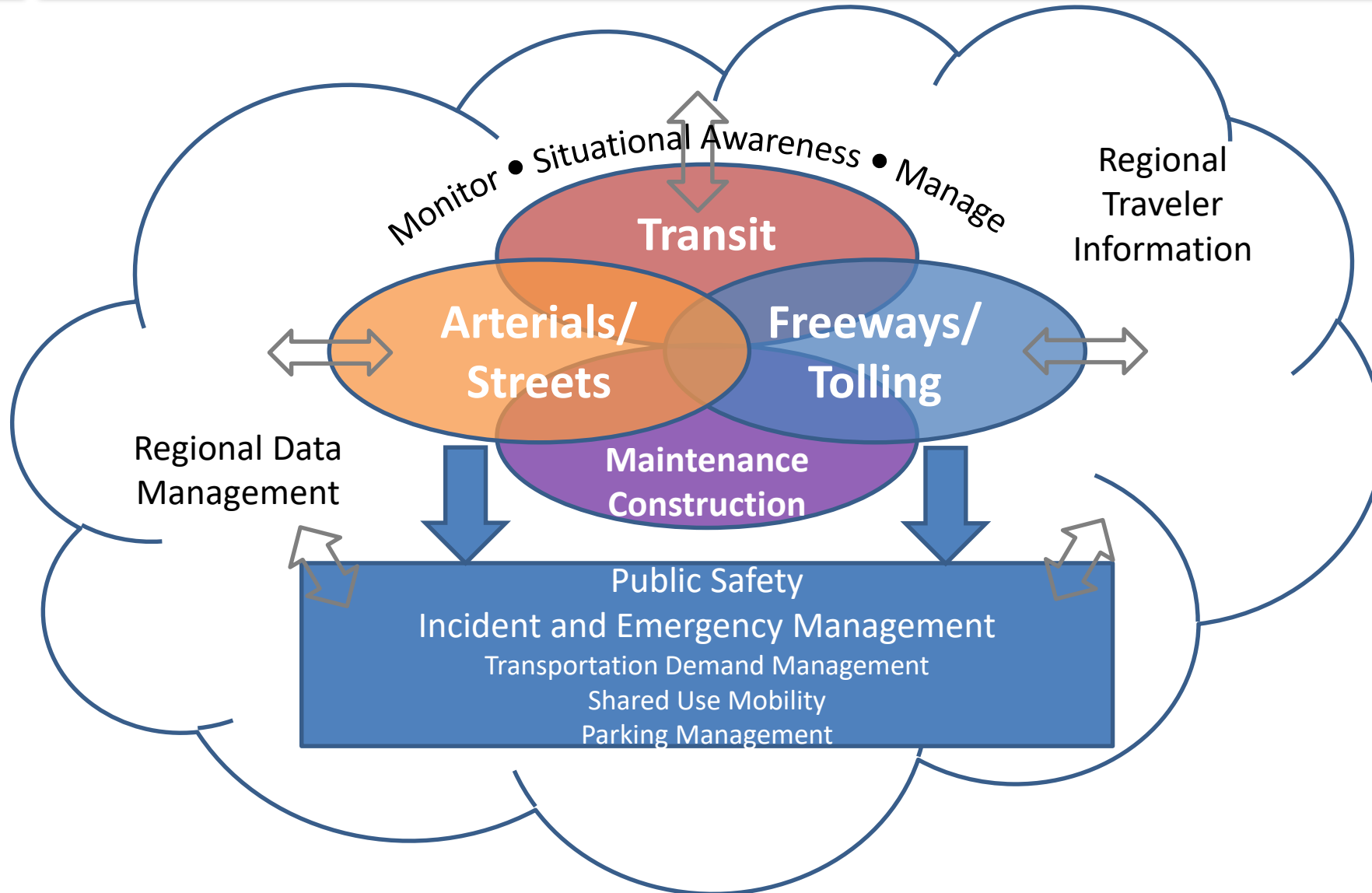
# Background: DRCOG operations programs

- 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





# Transportation Operations - Relationships





## 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



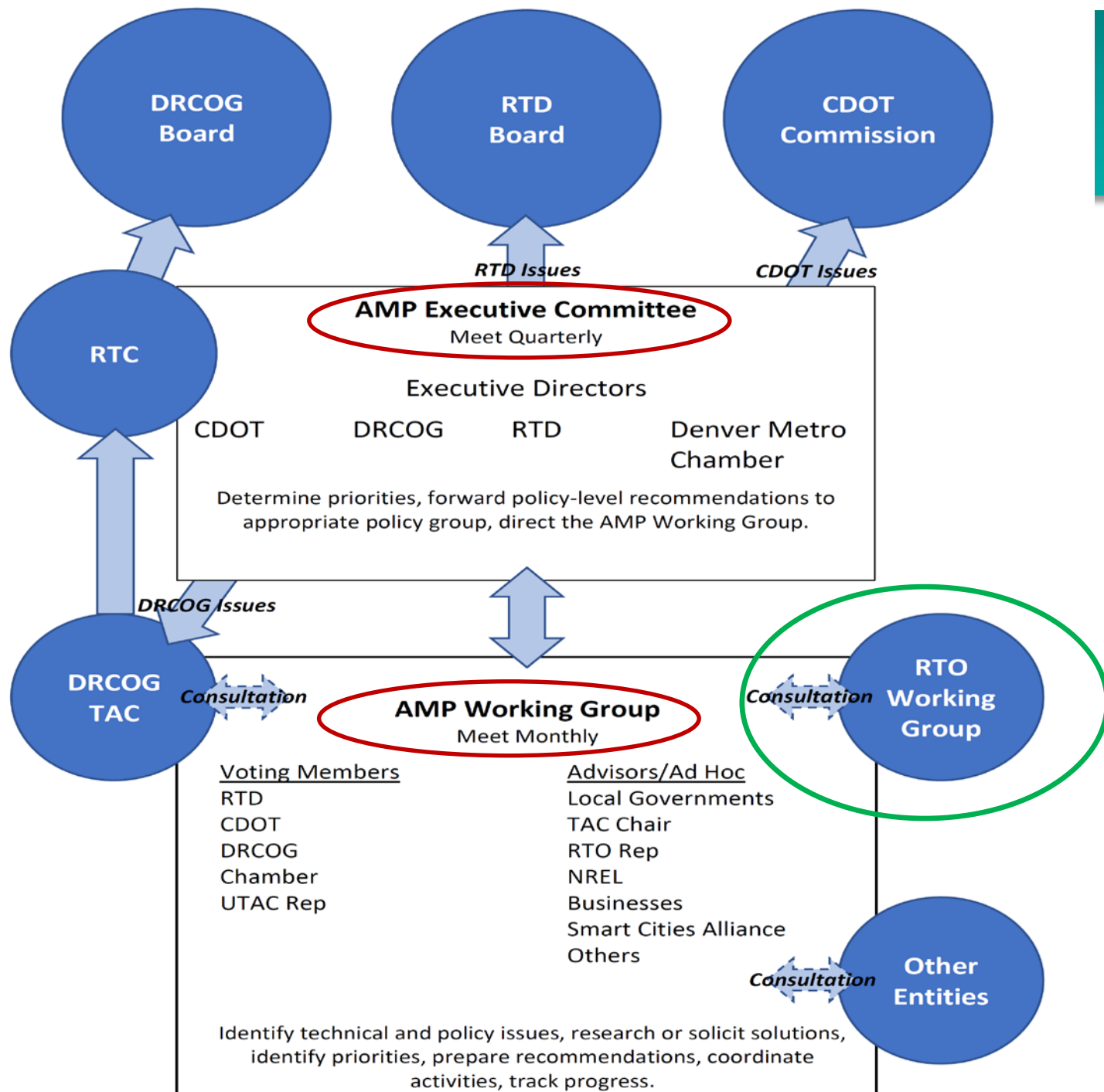
# RTO&T Program 2020 Call For Projects

- 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

# Advanced Mobility Partnership (AMP)



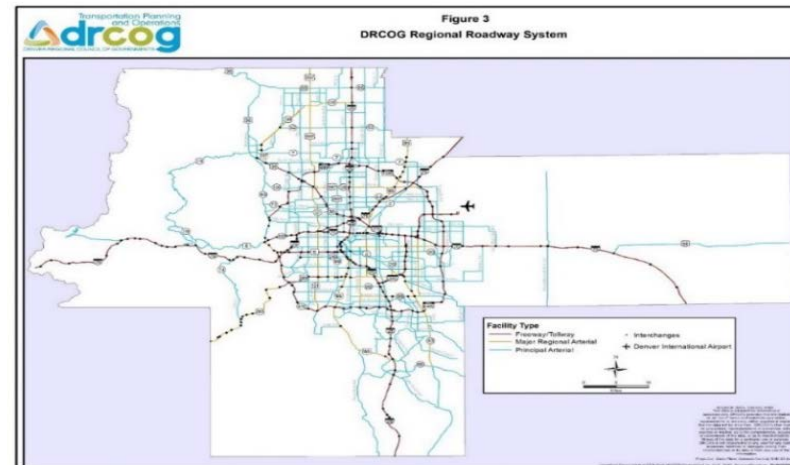
ADVANCED  
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# Corridor Priority Action Categories

- 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



# RTO&T Set-Aside 2020 Schedule - draft

<del>AMP Working Group</del>	<del>February 4</del>
RTO Working Group	February 26
AMP Working Group	March 3
TAC rec. Criteria & Process	March 23
<i>LOI and Application Templates</i>	<i>Early April</i>
RTC rec. Criteria & Process	April 14
<b>Board action – Criteria &amp; Process</b>	<b>April 15</b>
Sponsor workshop	April 22

LOI Deadline	May 13
LOI Discussion at RTO WG	June 3
Application Deadline	July 8
Staff recommendations of projects to RTO & AMP WGs	July 29 / Aug 4
TAC recommendation	August 24
RTC recommendation	September 15
<b>Board approval of projects</b>	<b>September 16</b>

RTO – Regional Transportation Operations  
AMP – Advanced Mobility Partnership  
LOI – Letter of Interest

