



Emission Reduction Strategies: Leveraging CMAQ Funding

Mobile Sources Technical Review Subcommittee
EPA Region V
Chicago, Illinois
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U.S. Department of Transportation
Federal Highway Administration

MAP-21

Moving Ahead for Progress in the 21st Century



CMAQ Background

- The Congestion Mitigation and Air Quality Improvement Program (CMAQ) funds projects that reduce congestion and improve air quality
- Authorized by ISTEA in 1991
- Currently Authorized by MAP-21
- FY 14 Funding
 - \$2.2 Billion Nationally
 - \$100 Million Chicago Region



General Eligibility Requirements

- Transportation Project
- Generate an Emissions Reduction
- Located In or Benefit a Nonattainment Region
- Ineligible Projects include:
 - New capacity for SOV
 - Routine maintenance and rehabilitation
- Typically 80/20 Funding Match



Eligible Projects

1. Diesel Engine Retrofits and Other Advanced Truck Technologies



Eligible Projects

2. Idle Reduction
3. Traffic Flow Improvements
4. Freight/Intermodal
5. Transportation Control Measures
6. Transit Improvements
7. Bicycle and Pedestrian Facilities and Programs



Eligible Projects

8. Travel Demand Management
9. Public Education and Outreach
10. Transportation Management Associations
11. Carpooling and Vanpooling
12. Carsharing
13. Extreme Low Temp Cold Start Programs
14. Training



Eligible Projects

- 15. Inspection and Maintenance
- 16. Innovative Projects
- 17. Alternative Fuels and Vehicles



Program Development

- Administered by State DOTs and Metropolitan Planning Organizations (MPOs)
- Broad Discretion to Advance Regional Priorities
- MAP-21 Requirements for Cost Effectiveness and Performance Measurement



Chicago Program Development

- Ranking Process
 - Emphasizes cost per kilogram VOC (fine particulates for diesel) reduced
 - Also cost per kilogram NOx reduced, cost per 1000 VMT eliminated , cost per 1000 trips eliminated
- CMAP Focus Groups
 - Bicycle-Pedestrian Advisory Committee, Regional Transportation Operations Coalition, Transit, Direct Emission Reduction



Chicago Program Development

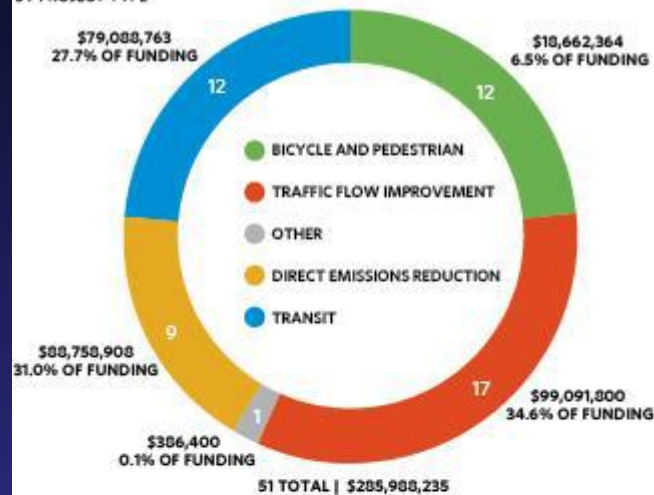
- CMAP Staff Recommended Program
 - Priority to highest benefit cost ratio
 - Project readiness, project mix, mode mix, sub-regional balance
- CMAQ Project Selection Committee
- CMAP Transportation Committee
- CMAP Board
- MPO Policy Committee

Regional FY 14-18 Program

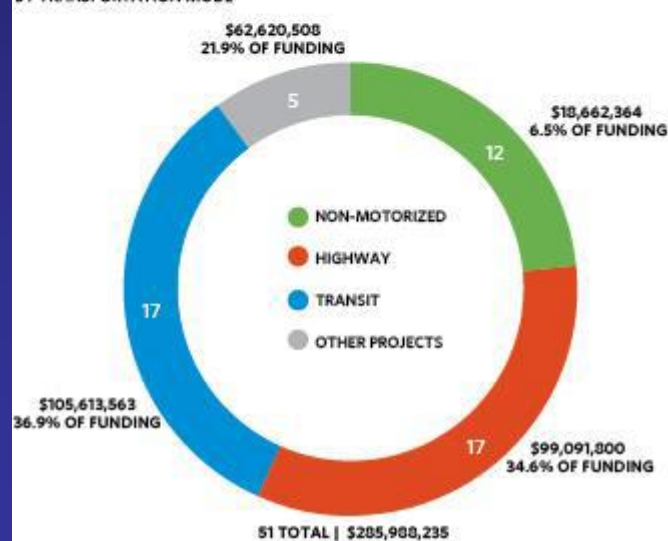
- 121 Applications
- \$286M for 51 Projects
- Combined with already programmed projects for 5 Year \$582M Program

Summary of CMAQ multi-year program, FY 2014-2018, by number of projects

BY PROJECT TYPE



BY TRANSPORTATION MODE



Source: Chicago Metropolitan Agency for Planning



Challenges with Rail Projects

- Highways Regulations for Rail Projects
- Public vs Private Implementers
 - Timing Expectations
 - Entitlement Mentality
- Geographic Balance and Equity
- Eligibility Creep



For More Information

- Federal Highway Administration Air Quality
 - http://www.fhwa.dot.gov/environment/air_quality/
- Chicago Metropolitan Agency for Planning CMAQ Program
 - <http://www.cmap.illinois.gov/mobility/strategic-investment/cmaq>



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