

METROPOLITAN PLANNING ORGANIZATION ROLES AND RESPONSIBILITIES IN AIR QUALITY

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**Chris Klaus
Senior Program Manager**



**North Central Texas
Council of Governments**

What is an MPO?

MPO Federal Requirements

Involvement in Air Quality Planning Activities

**Implementation of Emission Reduction
Activities (Management & Operations)**

Looking Forward

YOUR FRIENDLY NEIGHBORHOOD MPO

Policy Board of a Regional Organization Carrying Out the Metropolitan Transportation Planning Process

Required to Represent Localities in all Urbanized Areas (UZAs) with Populations Over 50,000, as Determined by the US Census

25 MPO's in Texas



MPO FEDERAL REQUIREMENTS

Metropolitan Transportation Plan (MTP)

Multi-Modal Long Range Planning Document
Outlook of at Least 20 Years into the Future
Minimal 4-Year Update Cycle

Transportation Improvement Program (TIP)

Staged, Multi-Year Program of Projects Approved for Funding
Updated Every 2 Years
Regional Component of the State Transportation Improvement Program

Congestion Management Process (CMP)

Assesses Alternative System and Demand Management Strategies
Region-wide or Corridor-Level Basis
Required in Metro Areas of Over 200,000 (Transportation Management Areas)

Unified Planning Work Program (UPWP)

Outlines Transportation and Air Quality Planning Activities
Developed Every 2 Years

Transportation Air Quality Conformity

Required in Areas Designated Nonattainment

INVOLVEMENT IN AIR QUALITY PLANNING

Rules, Regulations, and Guidance

Transportation Conformity Rules/Requirements (CAA)

Nonattainment Designation Implementation Rules

Emission Estimation Models (MOVES) and Procedures (MOSERS)

Legislature/Local Municipalities

Ability to Shape Future Planning and Funding

Emissions Inventories

Results go into developing Motor Vehicle Emissions Budgets (MVEB) in the State Implementation Plan (SIP)

Many Local Assumptions that go into Vehicle Emissions Model

State Responsible for the SIP

Transportation Conformity

In Nonattainment Areas, Required Prior to Project Implementation

Ties Emissions from Regional Projects to MVEB in the SIP

MPO = Local Determination, USDOT = Federal Determination

Essential for MPO to stay informed and be involved in elements of air quality, to ensure successful transportation conformity

FUNDING RESOURCES

Transportation Planning Funds – TxDOT

Congestion Mitigation and Air Quality (CMAQ) Program – FHWA

Surface Transportation Block Grant Program – FHWA

Diesel Emissions Reduction Act Funding – EPA

Clean Cities Coalition – DOE

**Low-Income Vehicle Repair Assistance, Retrofit, and
Accelerated Vehicle Retirement Program – TCEQ**

Local Initiative Projects – TCEQ

Draft Volkswagen Beneficiary Mitigation Plan – TCEQ

TERP, FTA, SECO, P3, PACE, Funding Swaps, etc.

<https://www.nctcog.org/aqfunding>

FRAMEWORK TO SUCCESS

3 “E”s

Engineer

Develop Initiative

Educate

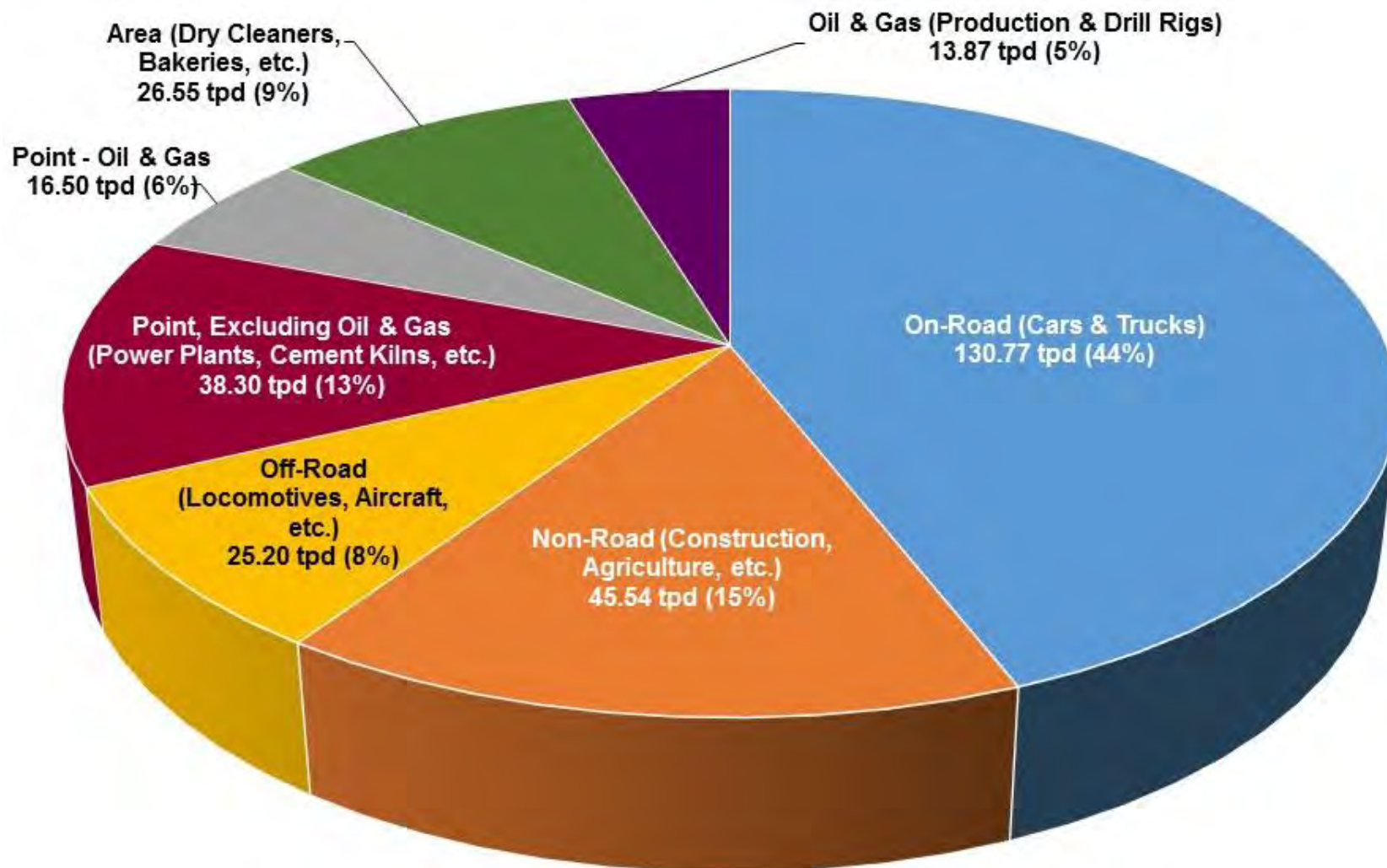
Outreach Audience on Initiative

Enforce

Make Sure Initiative is Being Implemented

DFW EMISSIONS SOURCES

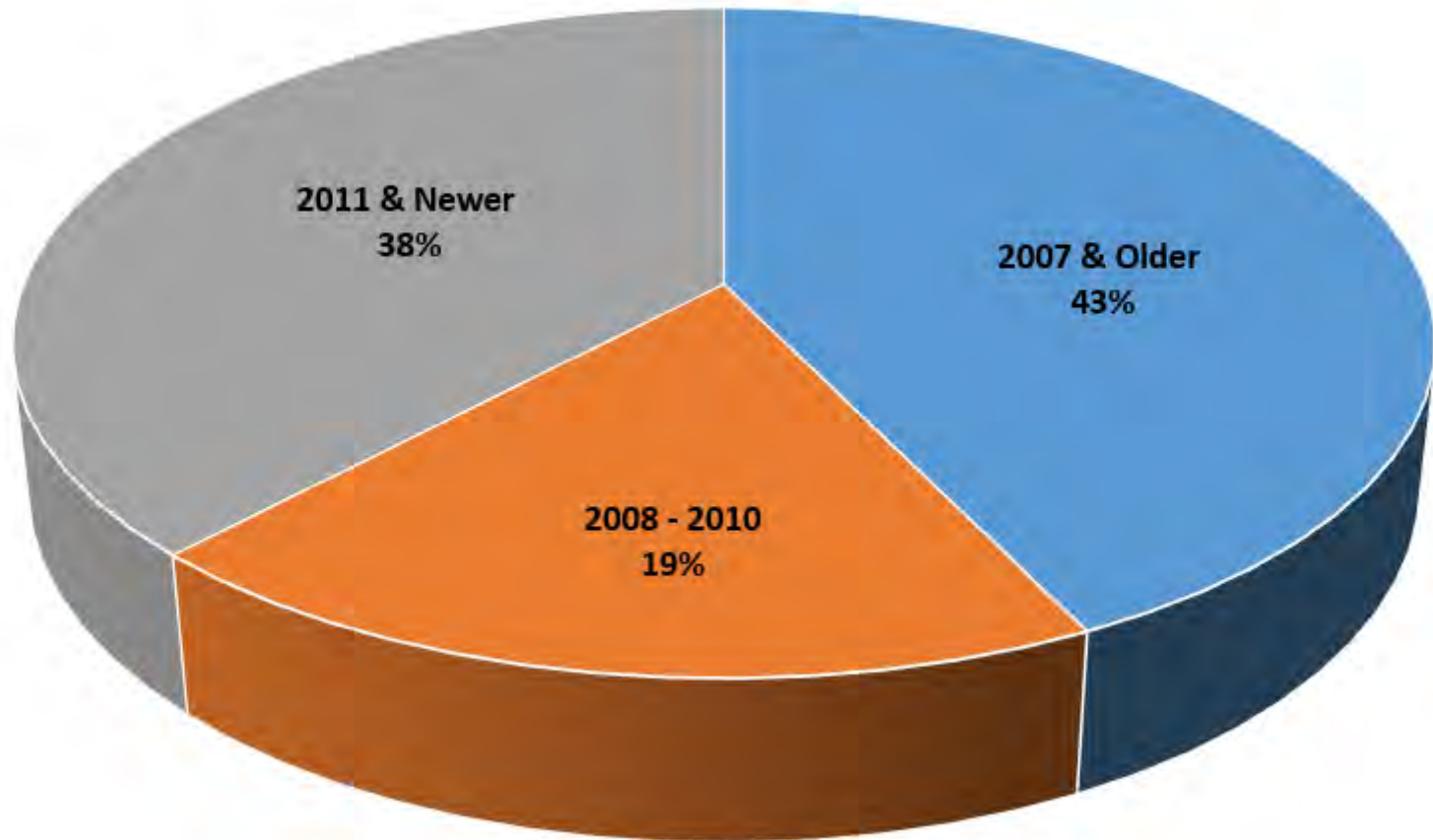
2017 Oxides of Nitrogen (NO_x)



Total NO_x = 296.73 tons per day (tpd)

HEAVY-DUTY DIESEL VEHICLE¹ AGE DISTRIBUTION

**DFW 10-County Nonattainment Region
(Greater than 26,000 Gross Vehicle Weight Rating)**



¹Based on 2014 Texas Department of Motor Vehicles registration data

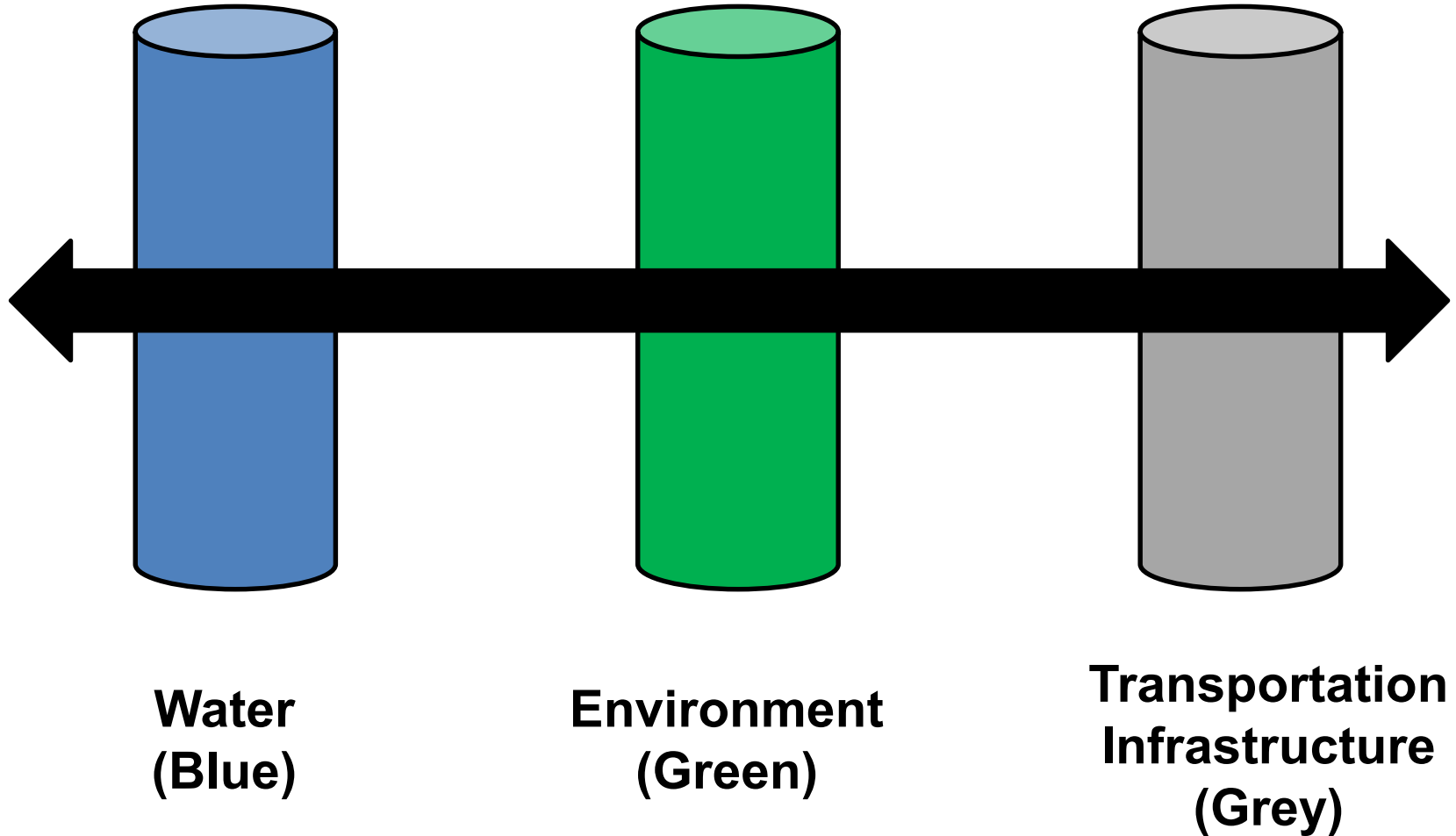
SEVEN AIR QUALITY EMPHASIS AREAS

Mobile Sources



BLUE-GREEN-GREY FUNDING INITIATIVE

Silo-Busting Across Topics and Teams



CONSERVE NORTH TEXAS




Program Goals

Regional Clearinghouse of Energy Efficiency, Water Conservation, and Transportation Resources.

Resources


“One-stop-shop” For a Comprehensive Inventory of Programs, Tools, Case Studies, Funding, and Other Resources

Topic




Water

Find resources to reduce water use and increase water conservation within the public and private sector.



Energy

Search resources that help reduce energy consumption and increase energy efficiency across all sectors.



Fuel

Explore resources to reduce energy and fuel intensity within the transportation sector.

www.conservenorthtexas.org

SOLSMART

Program Goals

Reduce Solar Soft Costs
Adopt Solar-Friendly
Processes and Policies
Designate Communities

**6 of 10 SolSmart-
Designated Communities
are in North Texas!!!**

NCTCOG Role

Hosted Trainings
Shared Regional Best Practices
Conducted Technical Review of
Community Documents and
Policies

Texas' SolSmart-Designated Communities

<u>BRONZE</u>	<u>SILVER</u>	<u>GOLD</u>
Denton	Brownsville	Austin
Lewisville	Corinth	Cedar Hill
Plano	Kennedale	El Paso
	San Antonio	

www.solsmart.org

ELECTRIC VEHICLES NORTH TEXAS

Program Goals

- Promote Adoption & Use of Electric Vehicles (EVs)
- Encourage Strategic Infrastructure Development



NCTCOG Resources

- EV Fact Sheets & Regional Data
- EV Incentive Information
- Presentations at Community Meetings
- Annual National Drive Electric Week Event
- NEXT: Template Code/Ordinance Recommendations**



www.dfwcleancities.org/evnt

AIR NORTH TEXAS

Program Goals

Provide a Comprehensive Air Quality Resource and Regional Message

Leverage Resources and Collaborate with Regional Partners

Increase Public Awareness about Air Quality and Clean Air Choices

NCTCOG Resources

Comprehensive Website including Current Ozone Conditions

Clean Air Corner Blog and Ozone Action Day Alerts

Template Outreach/Education Materials



www.airnorthtexas.org

SAMPLE OF AIR QUALITY INITIATIVES



Rideshare. Record. Reward.



AIR QUALITY HANDBOOK

North Central Texas Council of Governments

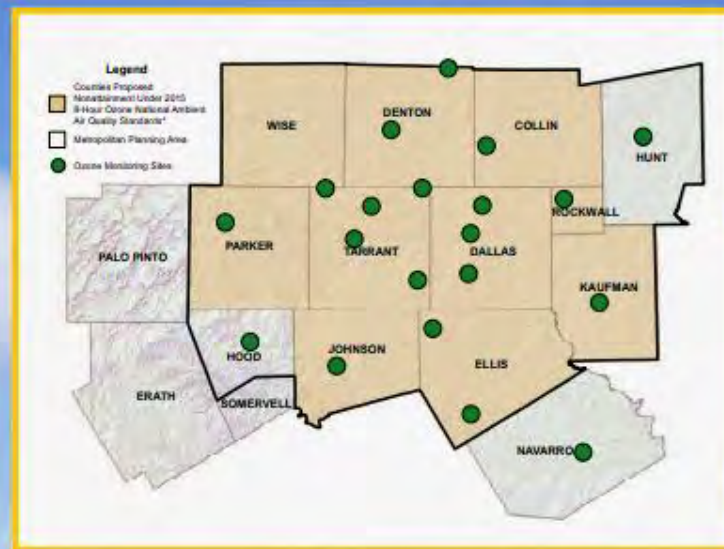
Air Quality

Handbook

Spring 2018

This Air Quality Handbook presents the current status of regional air quality and a summary of the work undertaken by the North Central Texas Council of Governments as the metropolitan planning organization and its partners to reduce air pollution and help the region meet federal air quality standards.

Exhibit 1: North Central Texas Nonattainment* Area and Ozone Monitoring Sites



LOOKING FORWARD

Base Technical Decisions on Sound Analysis

Future Is Uncertain

High Risk = High Reward

Maintain Transparency

Monitor (Real World) vs. Model (Simulation)

Plan Long Term

Prepare for Unintended Consequences

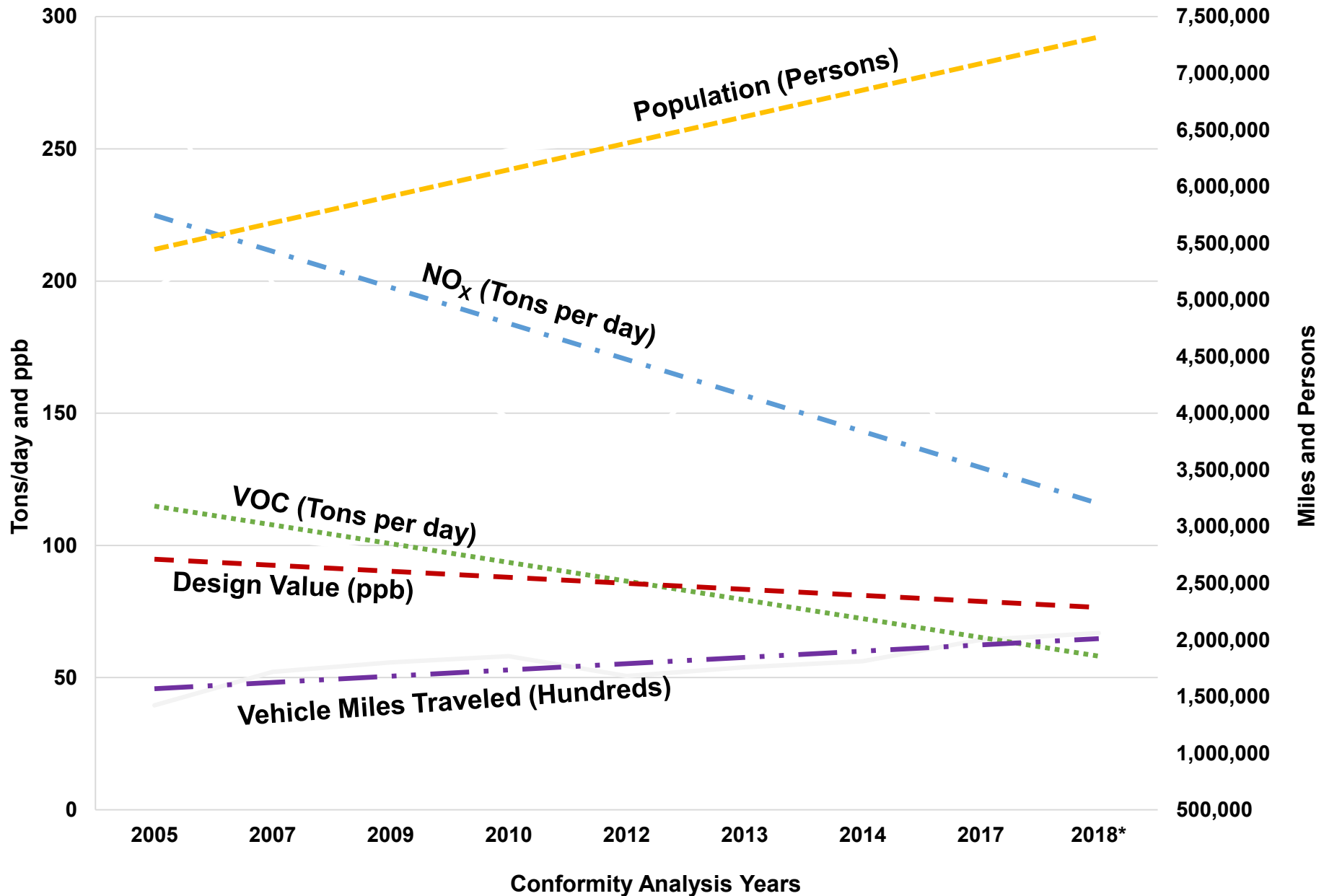
Proactive vs. Reactive

Support Consistency

Technical vs. Policy Support

Utilize Surrounding Resources

MEASURES OF SUCCESS



*2018 design value data current as of 07/1/2018

FOR MORE INFORMATION

Chris Klaus
Senior Program Manager

817-695-9286
cklaus@nctcog.org

www.nctcog.org/airquality