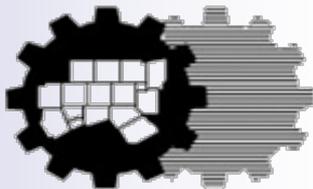


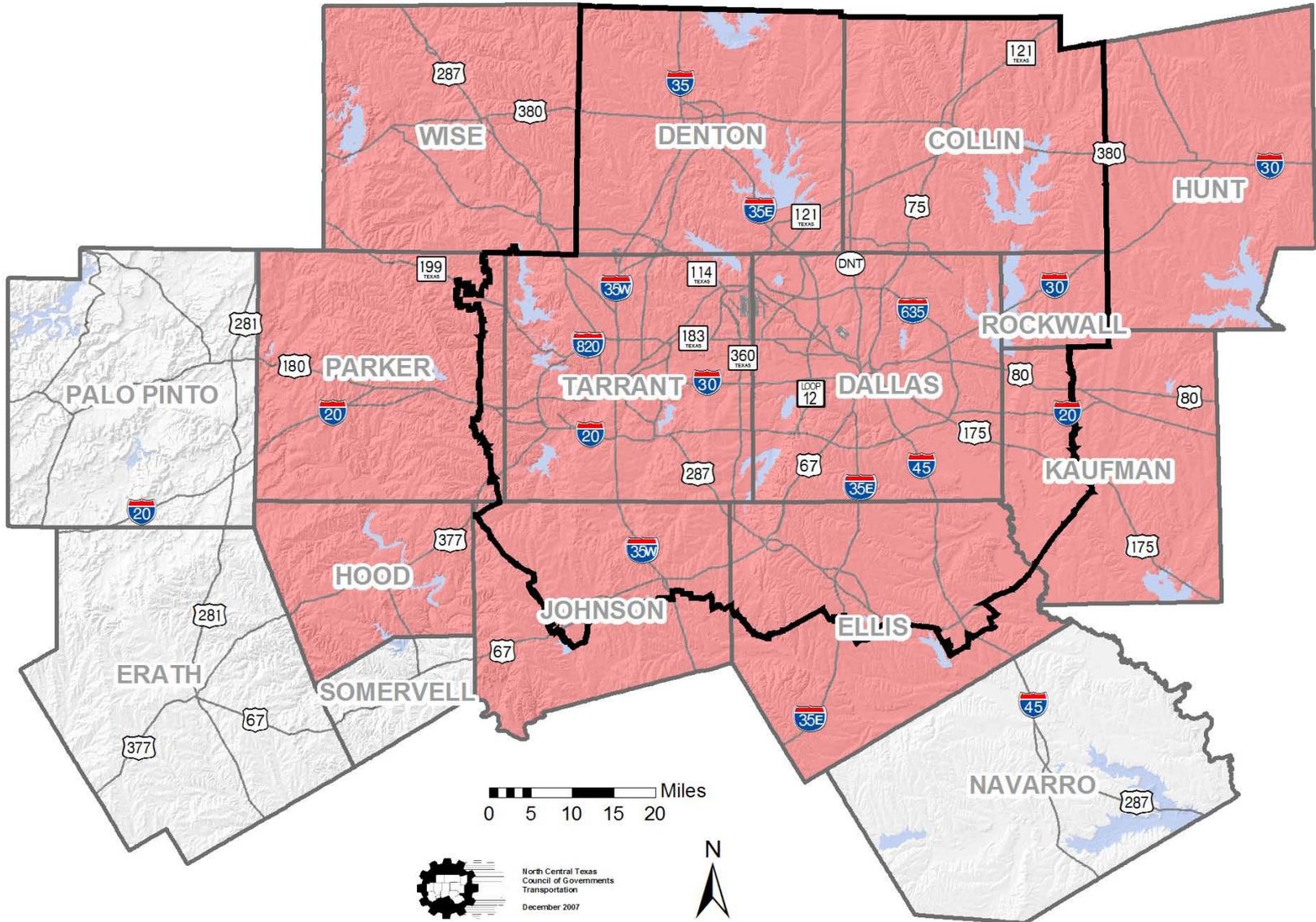
LAND USE AND TRANSPORTATION POLICIES TO BUILD SUSTAINABLE COMMUNITIES

**Air & Waste Management Association
103rd Annual Conference and Exhibition
June 22, 2010**



**Carrie Reese
Air Quality Policy & Program Development
Transportation Department
North Central Texas Council of Governments**

NORTH CENTRAL TEXAS REGION

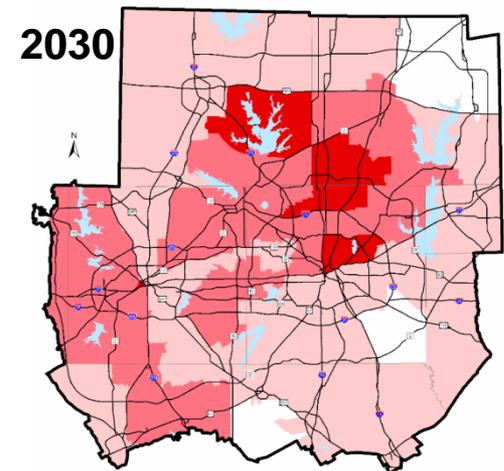
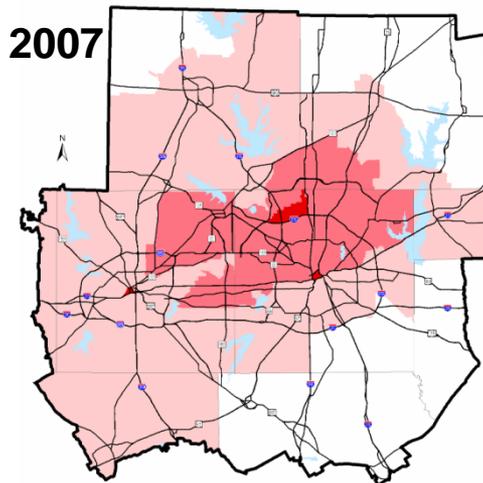


REGIONAL PERFORMANCE

Performance Measures	2007	Mobility 2030-2009 Amendment
Population	5,856,432	8,503,146
Employment	3,664,954	5,256,667
Vehicle Miles of Travel	151,392,421	242,006,657
Hourly Capacity (Miles)	30,238,116	44,957,004
Vehicle Hours Spent in Delay (Daily)	1,026,960	1,667,797
% Increase in Travel Time	34.32%	36.11%
Annual cost of Congestion	\$4.17	\$6.50

Legend

-  Areas with No Congestion
-  Areas with Light Congestion
-  Areas with Moderate Congestion
-  Areas with Severe Congestion
-  Roadways

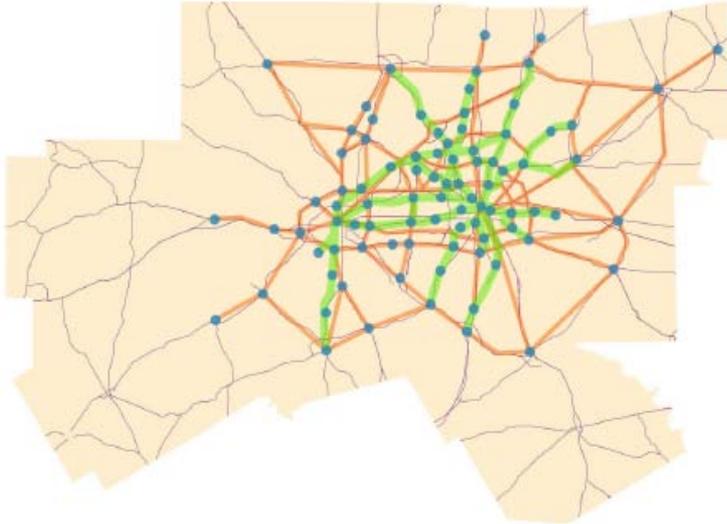




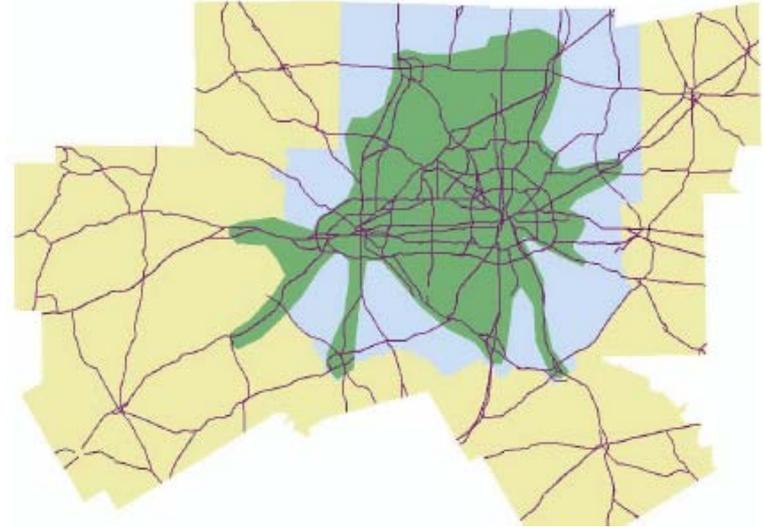
VISION NORTH TEXAS

ALTERNATIVE FUTURES

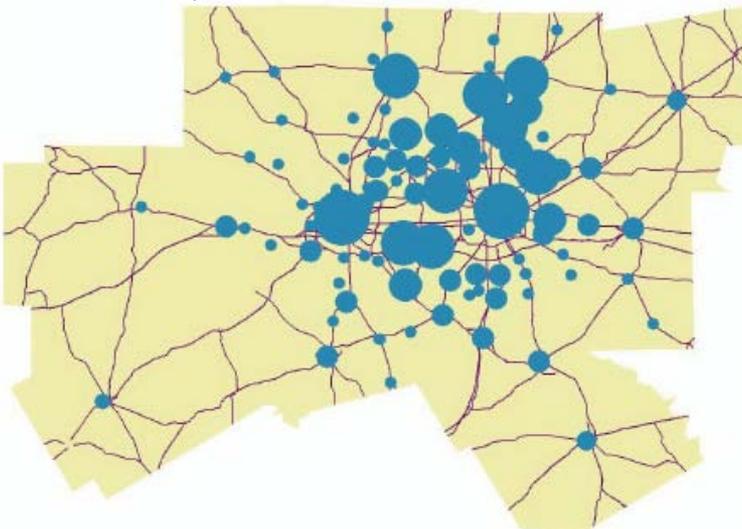
Connected Centers



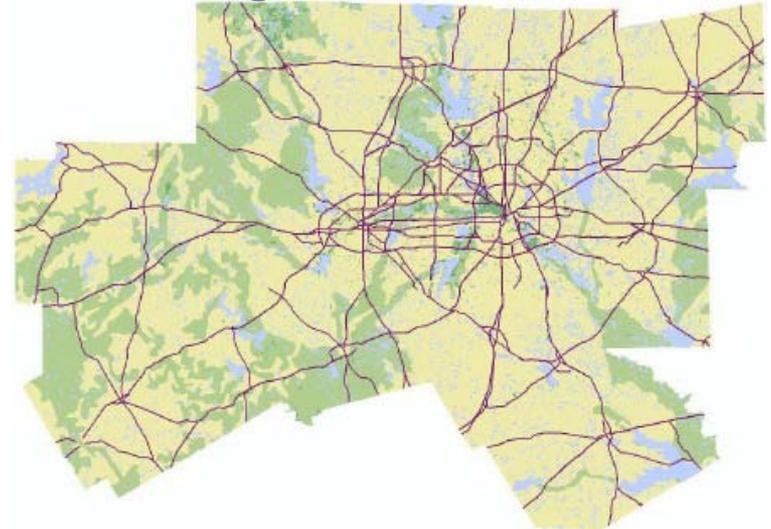
Return On Investment



Diverse, Distinct Communities



Green Region

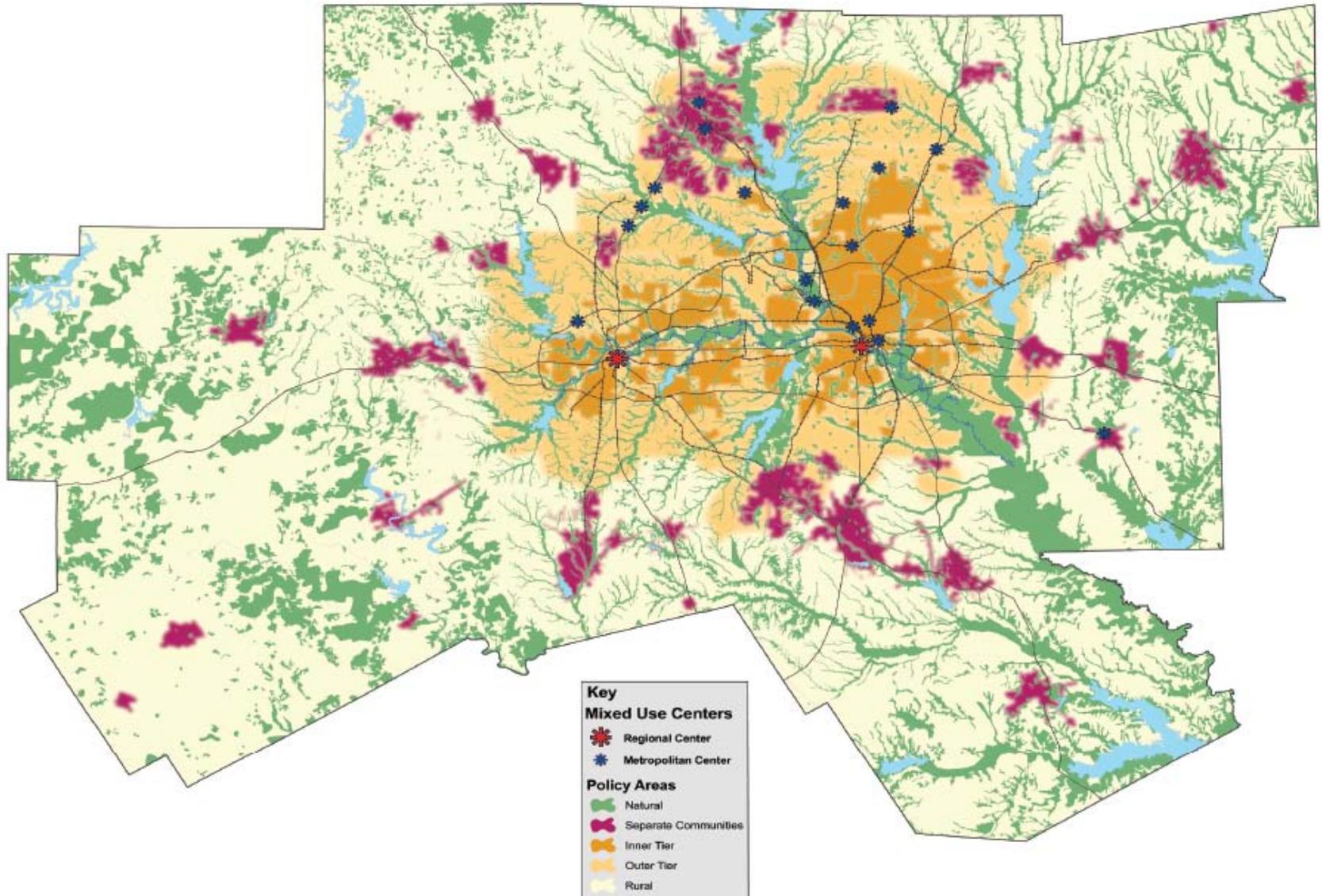


IMPACTS FOR THE REGION

Compared to Business as Usual

	Connected Centers	Return On Investment	Diverse, Distinct Communities	Green Region
Average Trip Length	-10.57%	-13.2%	-13.11%	-10.4%
Rail Transit Boardings	19.2%	4.9%	4.9%	1.3%
Bus Transit Boardings	19.5%	20.0%	20.0%	14.5%
Auto Vehicle Miles Traveled	-8.05%	-11.07%	-11.07%	-8.34%
Auto Vehicle Hours Traveled	-9.7%	-12.9%	-12.9%	-11.3%
Auto Vehicle Hours of Delay	-15.7%	-14.7%	-18.7%	-19.4%
VOC Emissions	-8.4%	-8.3%	-11.3%	-8.4%
NO _x Emissions	-6.6%	-6.5%	-9.2%	-6.3%
CO ₂ Emissions	-7.3%	-7.3%	-10.2%	-6.9%

PREFERRED FUTURE FOR 2050





TRANSPORTATION

VMT REDUCTION STRATEGIES

SIP* Transportation Control Measures

Measure	Commitments (2000-2009)	March 2009 Nitrogen Oxide Benefits (lbs/day)	March 2009 Volatile Organic Compound Benefits (lbs/day)
Bicycle/Pedestrian Projects	15.4 miles	14.98	9.51
HOV/Managed Lanes	70.0 miles	1,584.92	881.50
Park and Ride Projects	2,285 spaces	86.25	54.76
Rail Transit Projects	70.2 miles	568.55	419.17
Vanpool Projects	216 vanpools	168.99	113.11

*State Implementation Plan

Source: Dallas-Fort Worth 8-Hour Ozone Attainment Demonstration, http://www.tceq.com/implementation/air/sip/dfw_revisions.html#narratives

REGIONAL VELOWEB



The Metropolitan
Transportation Plan

Bicycle and Pedestrian Facilities

Legend

Recommended Veloweb Routes

- Completed: 112 miles
- Funded: 34 miles
- Needed: 289 miles

Candidate Veloweb Routes

- Completed: 7 miles
- Needed: 202 miles
- Freeways

County Boundaries

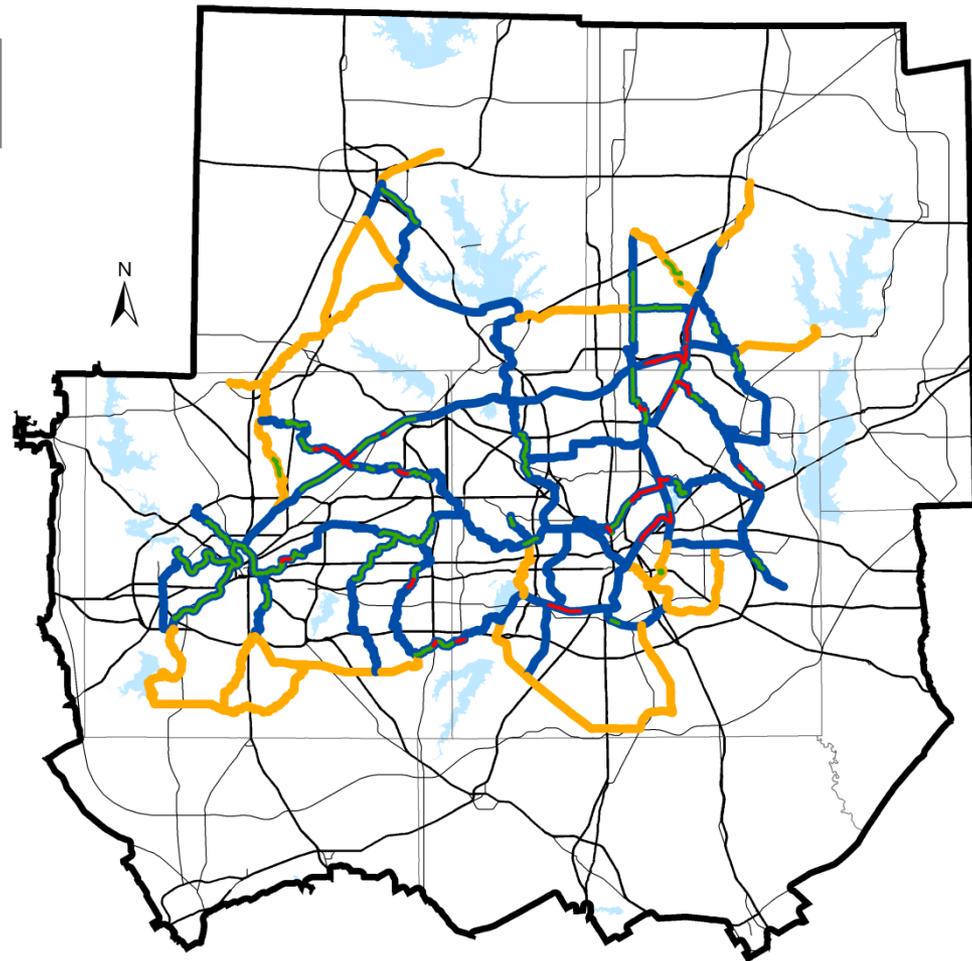
Metropolitan Planning Area Boundary

Major Lakes

New facility locations indicate transportation needs and do not represent specific alignments.

All existing railroad rights-of-way should be monitored for potential future transportation corridors.

All Veloweb routes should be targeted for right-of-way preservation.



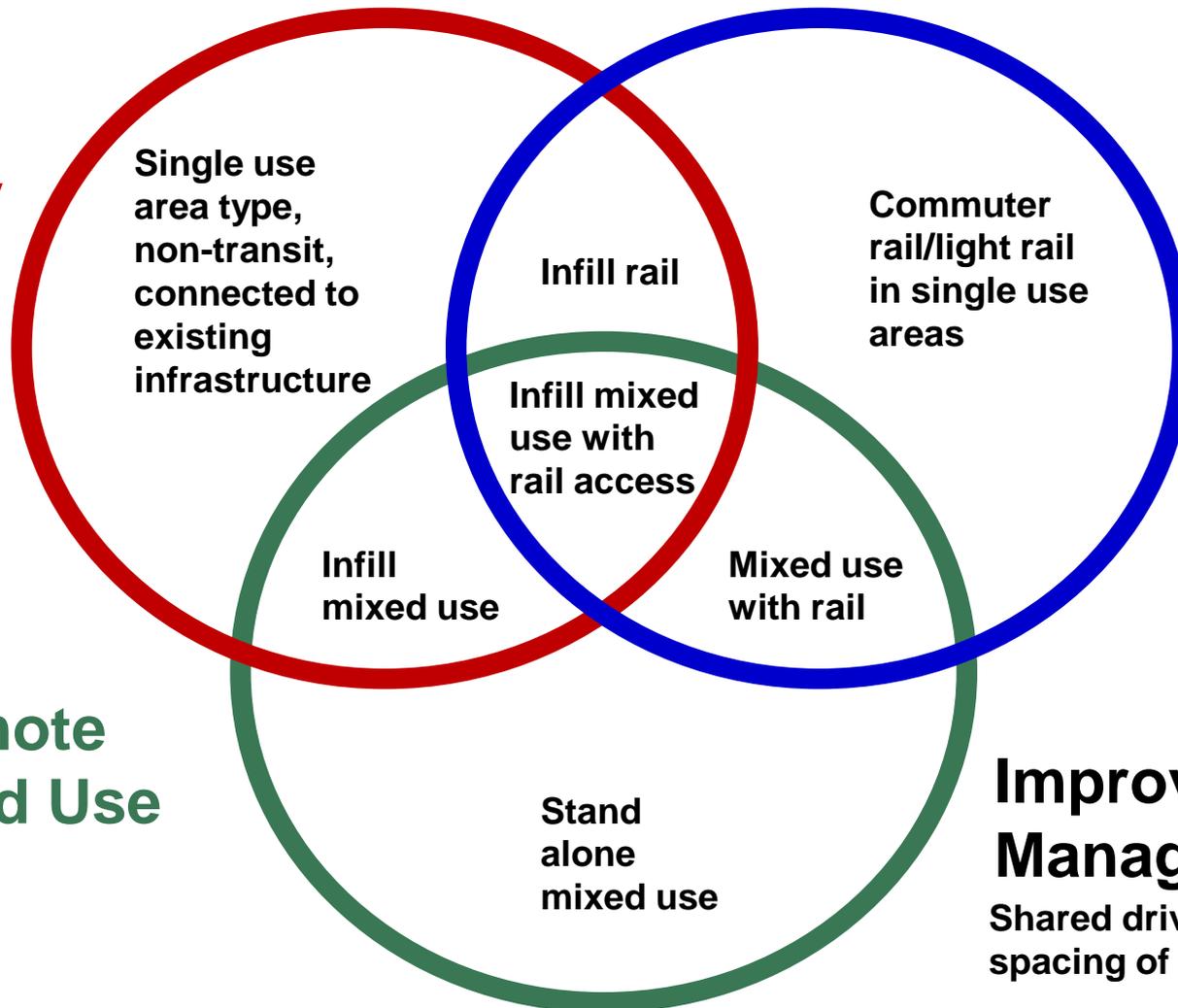
North Central Texas
Council of Governments
Transportation

April 9, 2009

SUSTAINABLE DEVELOPMENT POLICY

**Utilize
Existing
System
Capacity**

**Improve
Rail
Mobility**



**Promote
Mixed Use**

**Improve Access
Management**

Shared drives/parking,
spacing of turns/signals

SUSTAINABLE DEVELOPMENT PROGRAM

Initiatives

- Funding Program**
- Alternative Futures Scenarios**
- Bicycle & Pedestrian Program**
- Transit Oriented Development**
- EPA Brownfields Cleanup funds**
- Context Sensitive Design**
- Mixed-Use Developments**

Project Types Funded

- 64 Infrastructure Projects**
- 17 Planning Projects**
- 3 Land Banking Projects**

Funding

- Federal CMAQ and STP-MM Funds**
- RTC Local and Regional Toll Revenue**

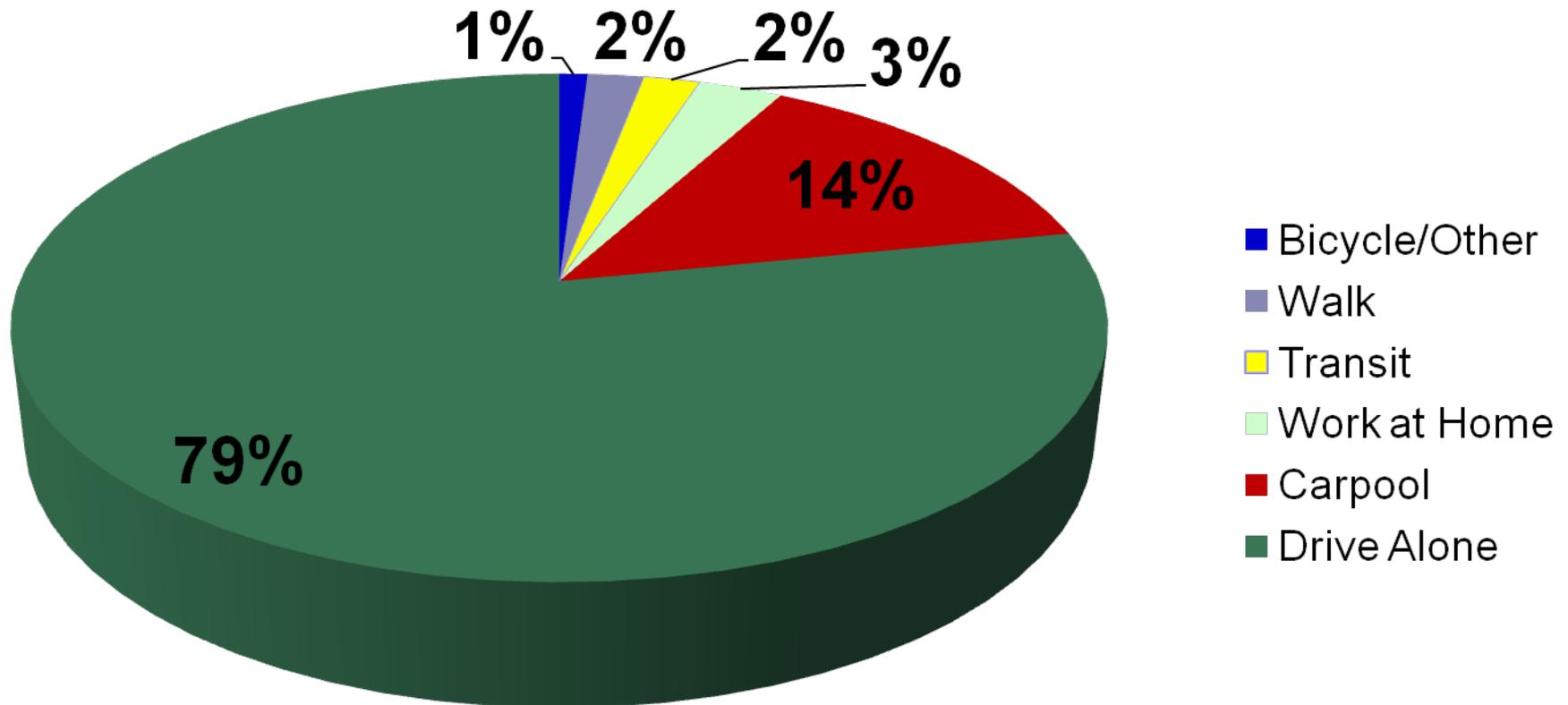
Complementary Initiatives

- Center for Development Excellence**



REGIONAL COMMUTE TRIPS

2000 Census Data for North Central Texas



MILEAGE-BASED INSURANCE

NCTCOG Demonstration Program

Level of Interest	High - 3,014 Texas Drivers Enrolled in the Program in 10 Days
Miles Reduced	PAYD Program Decreased Participant Miles Driven by An Average of 5%, or 560 Miles Per Year
Incentive	Average Financial Incentive for Reducing Mileage Was \$88 Per Period <ul style="list-style-type: none">• \$50 for Participation• + \$25 Per 5% Reduction in Miles
Time of Day	Positive Effect on Reducing Mileage During Commute and Mid-Day Hours No Effect on Late Night Miles Driven

MILEAGE-BASED INSURANCE

NCTCOG Demonstration Program

Category	Total Miles Traveled		
Land Use Zoning	Residential Zones	< (slight)	Non-Residential Zones
Population Density	Dense Areas	< (strong)	Sparse Areas
Proximity to Sustainable Development Communities (SDC)	Near SDCs	< (strong)	Not Near SDCs
Proximity to Transit Service	Near Transit	< (strong)	Not Near Transit

Analysis did not show any correlation related to:
Total Miles Reduced or Percent Miles Reduced

(slight), (strong) = strength of statistical correlation

EDUCATION PROGRAMS

North Texas Clean Air Coalition

**Educates, Engages, and Recognizes the
Business Community on Clean Air Efforts**



Commuter Challenge and Working for Clean Air Awards

Air North Texas

**Voluntary Effort and Creative Platform to Develop a Regional
Voice to Generate Public Awareness That Will Foster
Behavioral Changes in the Community**

**All-Inclusive Branding Effort That Will Serve to Bridge All Air
Quality Programs Into One Comprehensive and Versatile
Initiative**



AIR NORTH TEXAS



clean **air**
for all

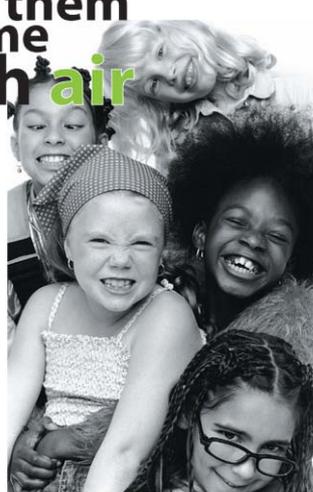
go green. breathe clean.

Let's face it, we all want the same thing - clean air. With your help from the Air North Texas community of individuals and organizations in the North Texas region, we can make living healthy and breathing clean a breeze with Air North Texas to become a face of change in air quality.

Air North Texas is a public awareness campaign that encourages residents to make clean air choices. Join us.

www.AirNorthTexas.org

give them
some
fresh **air**



go green. breathe clean.

your logo here

No one likes being stuck indoors, especially kids. But when air is bad, being indoors is the only place a kid should be. With your help and the support from the Air North Texas community of individuals and organizations in the North Texas region, we can make living healthy and breathing clean a child's play. Sign up today with Air North Texas and expand your kid's playground.

Air North Texas is a public awareness campaign that encourages residents of North Texas to make clean air choices. Join us.

www.airnorthtexas.org



go green
breathe clean
a campaign for clean air

search go

- home
- about us
- partners
- individuals
- businesses
- air facts
- just for kids
- links & resources



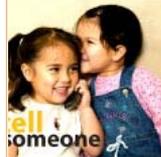
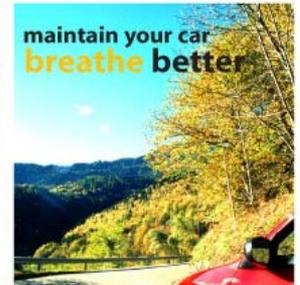
welcome to air north texas

Did you know that cleaning the air we breathe is a lot easier than we think? Small changes can make big improvements in our air and benefit our health at the same time.

Air North Texas is here to provide information and resources to many simple, daily actions you can take to help and be a part of the campaign for cleaner air.

Together, we can **go green, breathe clean.**

maintain your car
breathe better



- air quality index
- driving/walking routes
- commute info
- report smoking vehicles



think . share . connect .

Kick back, hang out, feel free to surf and browse our Web site. Learn more about simple daily actions you can adopt to improve air quality. Here's one: how about combining your errands into one quick trip - you save on gas, time, and you're helping the air.

While you're here, why not **sign up**

contact us

When it comes to our air,
inflation is a good thing.

By keeping your tires properly inflated you'll increase gas mileage, decrease your emissions and save money. And that's a very good thing.

For more tips on how you can do your part click on airnorthtexas.org



www.airnorthtexas.org

CONTACT INFORMATION

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