



Move Louisville

November 12, 2013

Today's Agenda

- 1. How We Got Here**
- 2. Move Louisville Process**
- 3. What Are Others Doing?**
- 4. Louisville's Goals**

How We

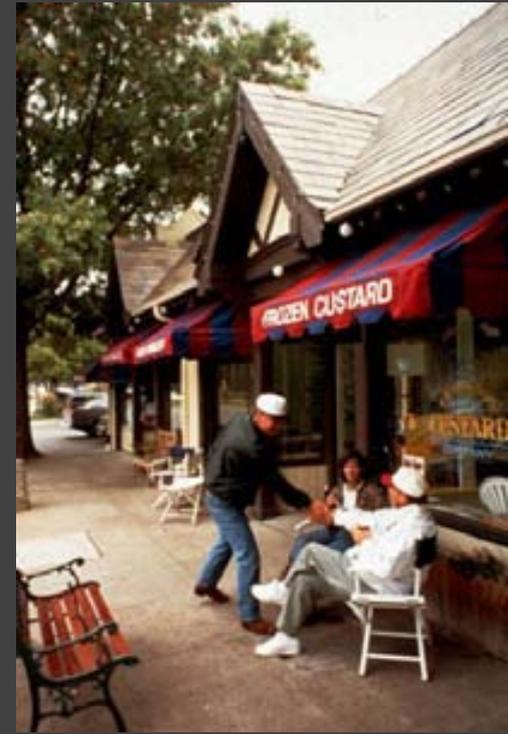
Got Here

What is the Purpose of Cities?

Cities are an invention to maximize exchange (goods, culture, friendship, knowledge) and to minimize travel.

The role of transport is to maximize exchange

...David Engwicht



Transportation investments are powerful and far-reaching.

Transportation accounts for **19 percent** of spending by the average household in America - as much as for food and health care combined.



What Is The Purpose of Cities?



Access



Mobility

The Good Old Days



Jefferson at 3rd

- 
- **Crowded**
 - **Dangerous**
 - **Dirty**
 - **Unhealthy**
 - **Lacking Greenspace**

Multi-Disciplinary Approach

1. Identify Problem
2. Formulate A Response
3. Implement The Solution

Identifying Last Century's Problems

LANCASTER, KY.

SHOWING THE LOCATION OF EACH CASE OF CHOLERA

1873.

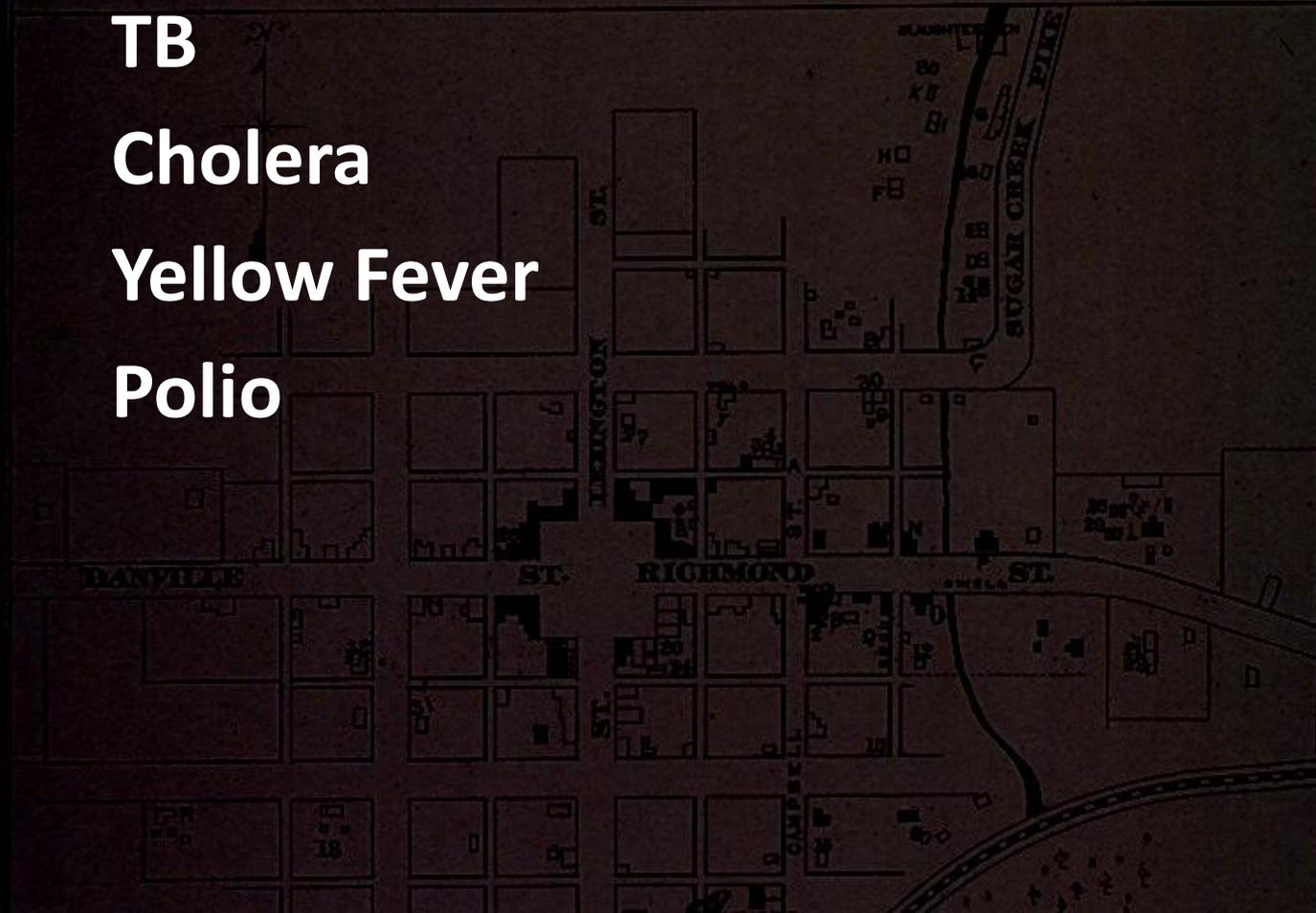
Infectious Diseases

TB

Cholera

Yellow Fever

Polio



Formulating A Response



Waverly Hills Sanatorium, Jefferson County

THE
GENERAL MOTORS
EXHIBIT BUILDING

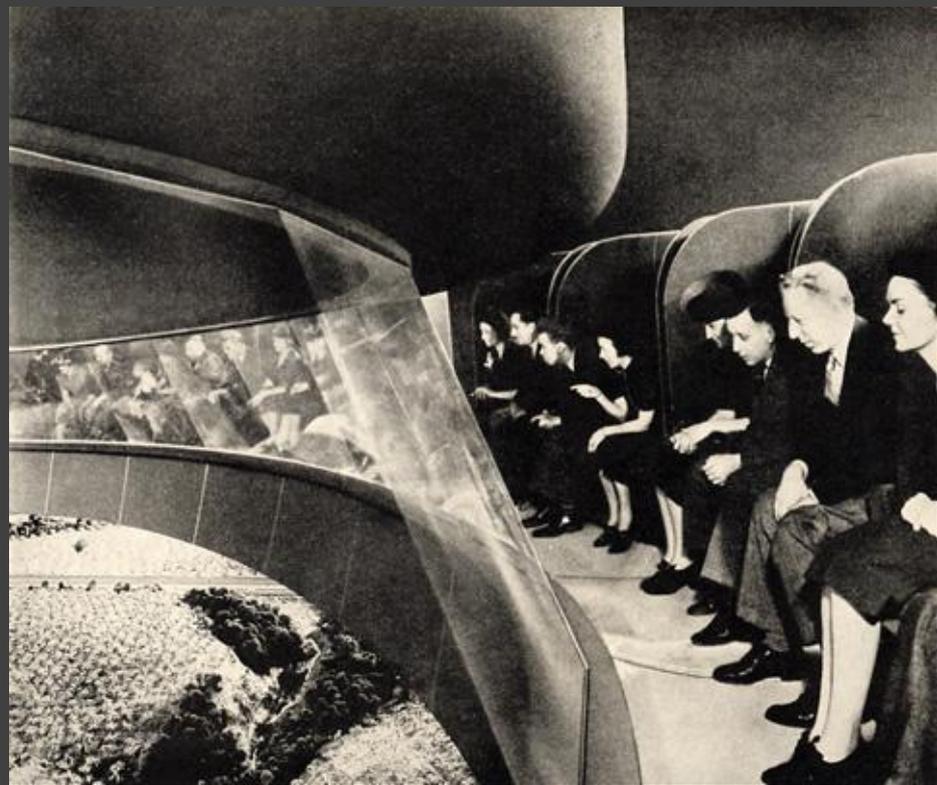
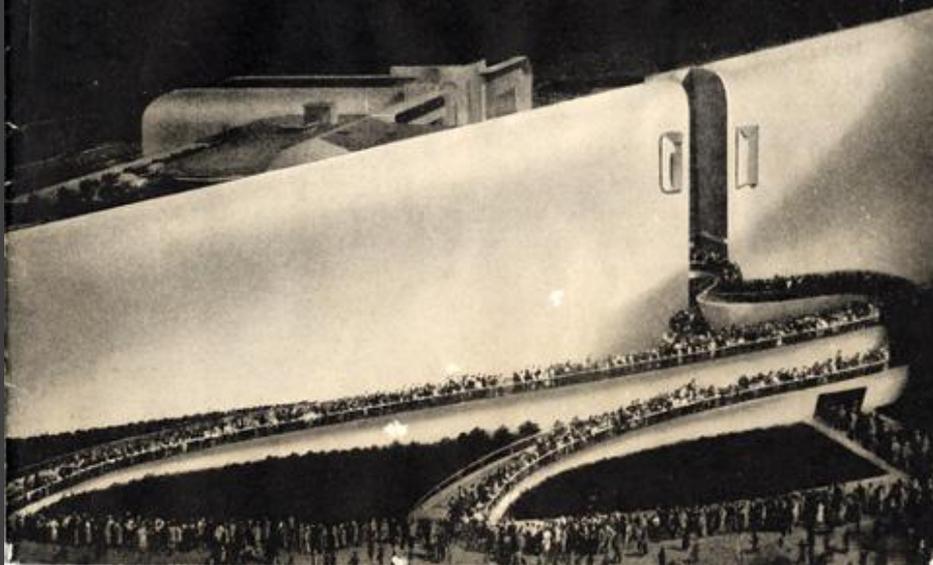


New York World's Fair
HIGHWAYS AND HORIZONS

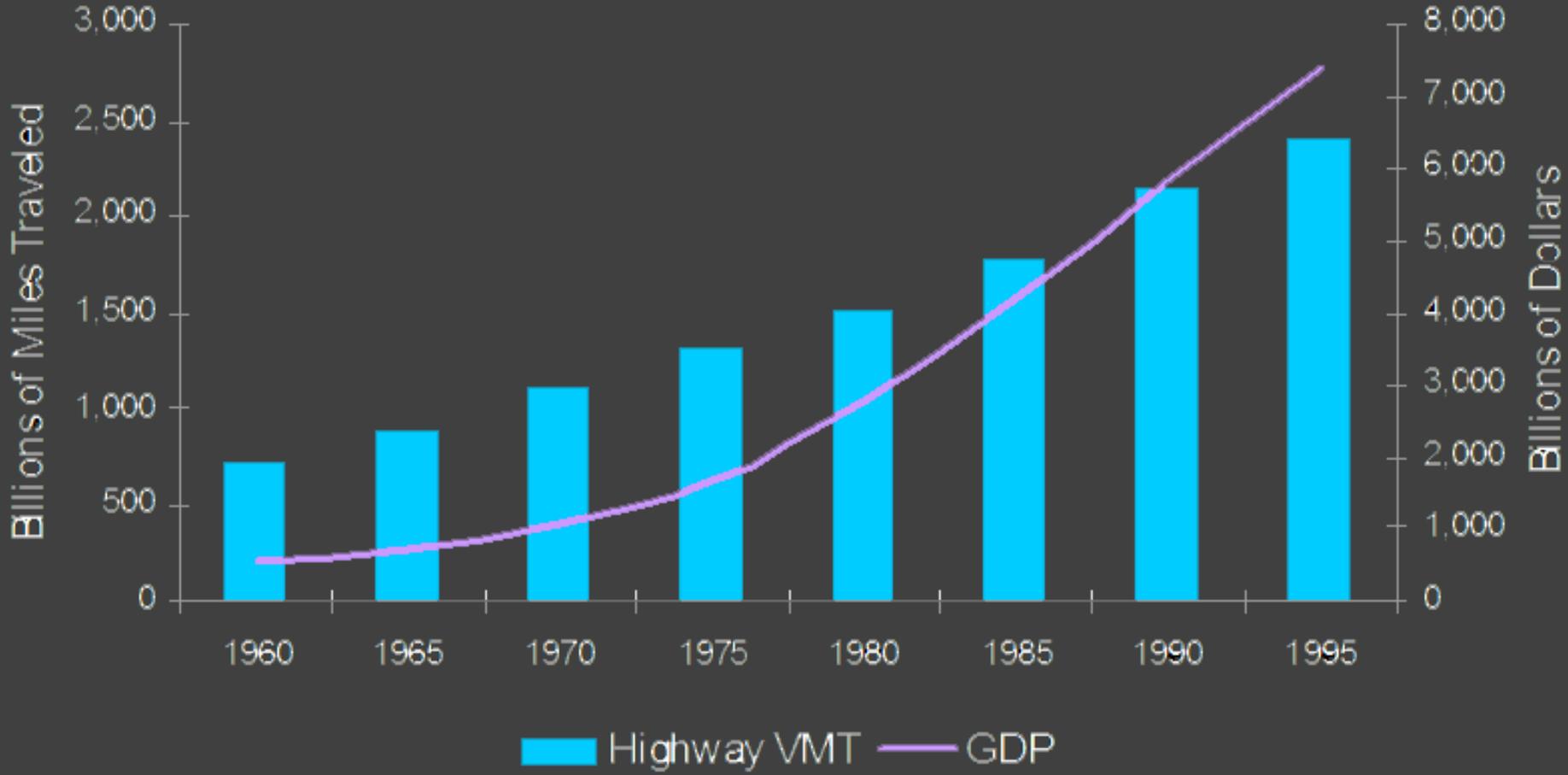


"abundant sunshine, fresh air, fine green parkways will blend together seamlessly with dazzling skyscrapers and seven-lane highways."

FUTURAMA



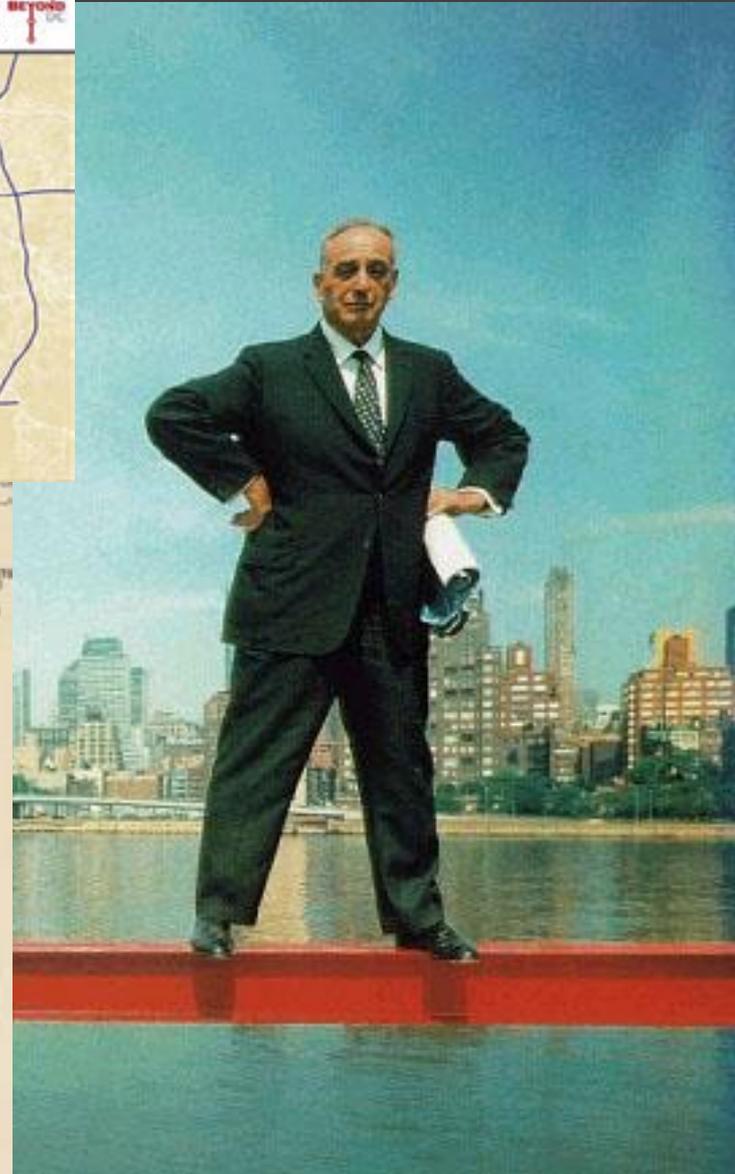
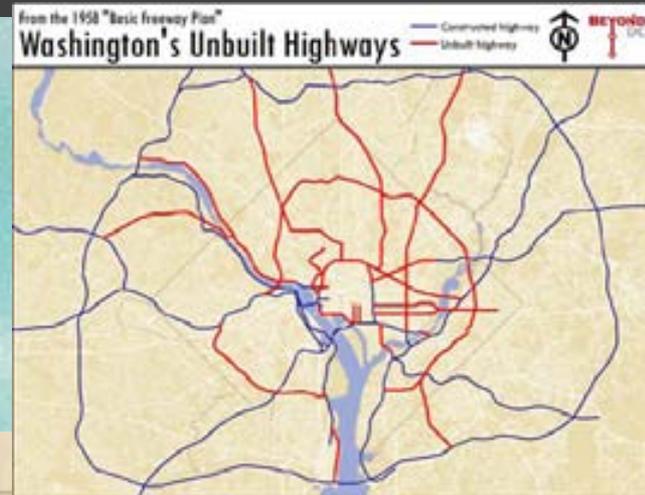
Transportation improvements allow economic growth.



Freeways Are Safe!

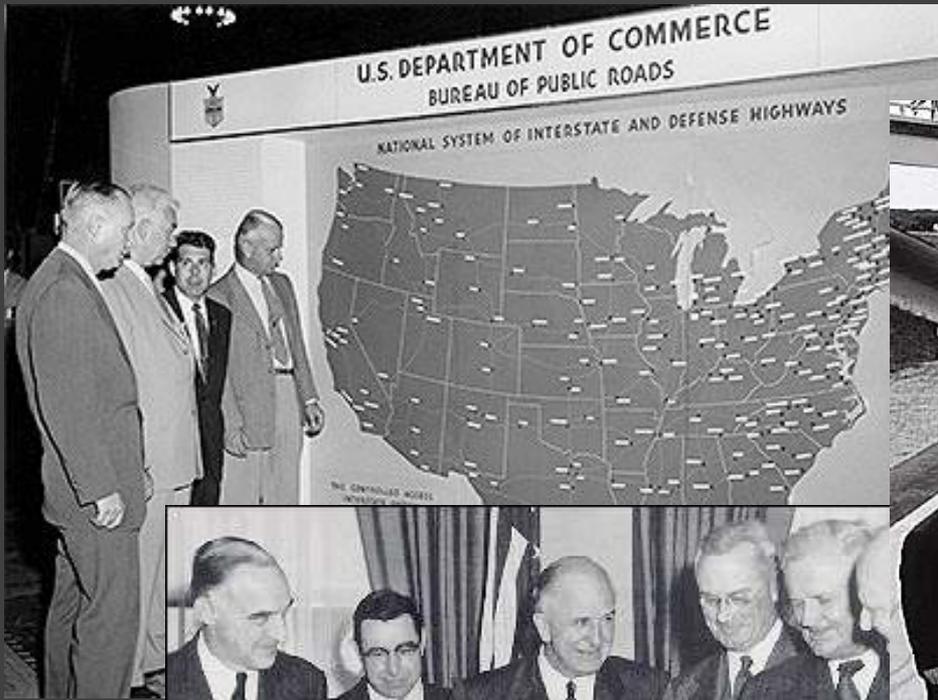
	PRINCIPAL RURAL AREAS	ARTERIAL	MINOR ARTERIAL	COLLECTOR	INTERSTATE	ALL HIGHWAYS
Vehicle Miles of Travel (Millions)	4,031.36	1,789.58	957.67	4,573.99	11,352.60	
Miles of Highway	1,980.28	1,685.51	1,604.63	467.33	5,737.75	
Total Collisions	3,776	2,128	1,291	2,367	9,562	
Collision Rate (1)	0.94	1.19	1.35	0.52	0.84	

Implement The Solution



Federal Transportation Policy 1956-1982

Federal Aid Highway Act of 1956



Copying Success, Ignoring Context



Fern Valley Road

To facilitate travel over longer distances!

Unintended

Consequences

What Is The Purpose of Cities?



Access



Mobility

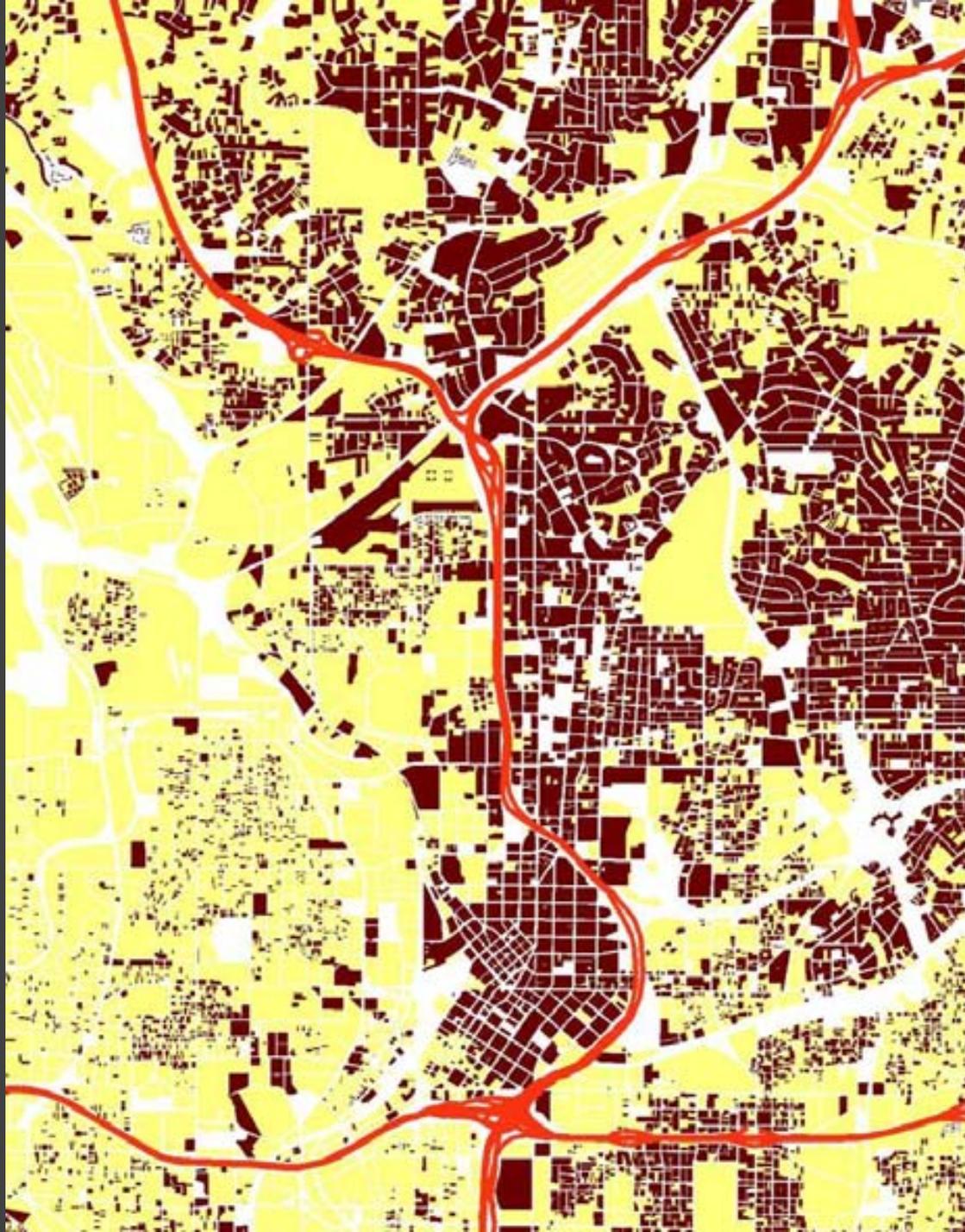
Trenton's Historic Riverfront



The Change for Mobility







Below \$400K -
Improve Access

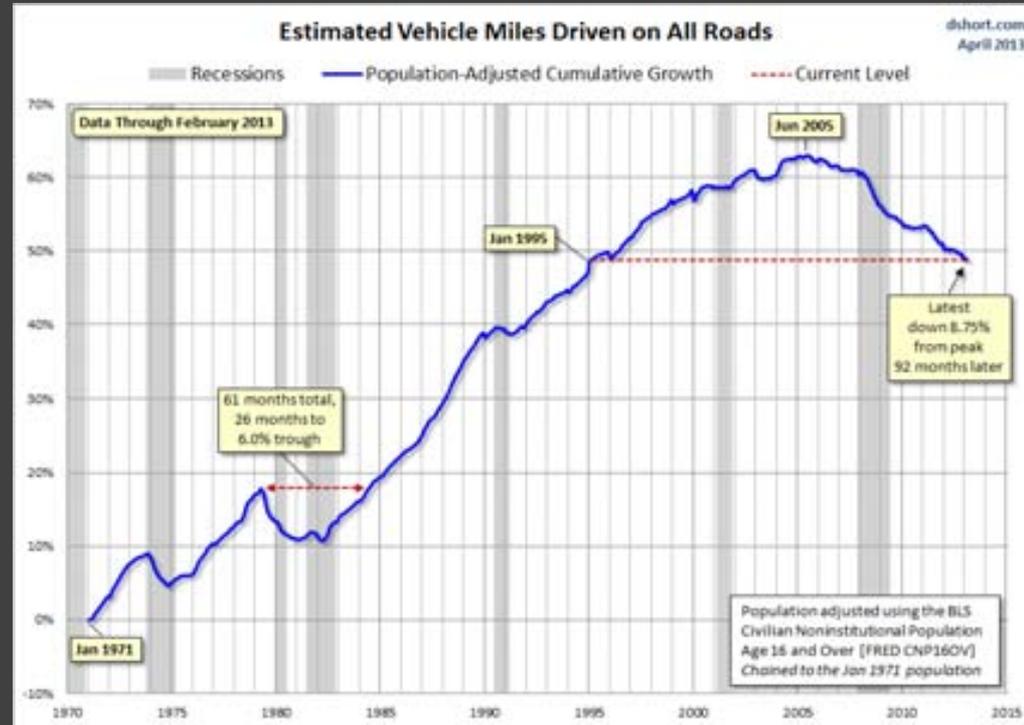
Above \$400K -
Create Space

Results Over the Last 50-Years

1) Vehicle Miles of Travel (VMT) Growing Faster Than Population Growth

2) Longer Commute Times

3) Decreased Transit Ridership



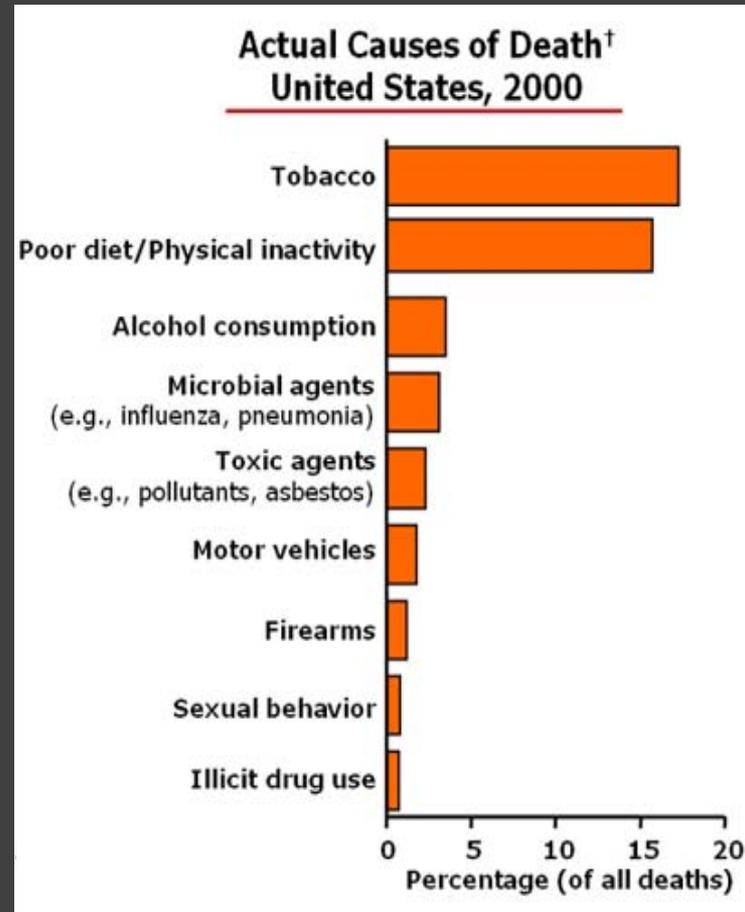


Diseases of this Century

- **Cardiovascular:** Heart Attack
Stroke
- **Respiratory:** Asthma
Emphysema
- **Weight Related:** Diabetes II
Heart Disease
- **Environmental:** Cancer &
other
diseases



Health Issue	Transportation Cause
Physical Safety	
Car Collisions	Speed
Physical Health	
Obesity	Inactivity
Asthma	Vehicle Emissions
Mental Health	Stress
Clean Water	Vehicle Waste



Environmental factors influence 85 out of the 102 categories of diseases and injuries listed in The World Health Report.

Today's Issues - Health



Humana Vitality

18,208 likes · 575 talking about this

Like Message

Health/Medical/Pharmaceuticals
Welcome to HumanaVitality! We are a wellness company that will help you stay motivated to be healthy and reach your fitness goals. Connect with us!



18,208



4 ▾

About – Suggest an Edit

Photos

Likes

Welcome

How it works

Consumption of Resources

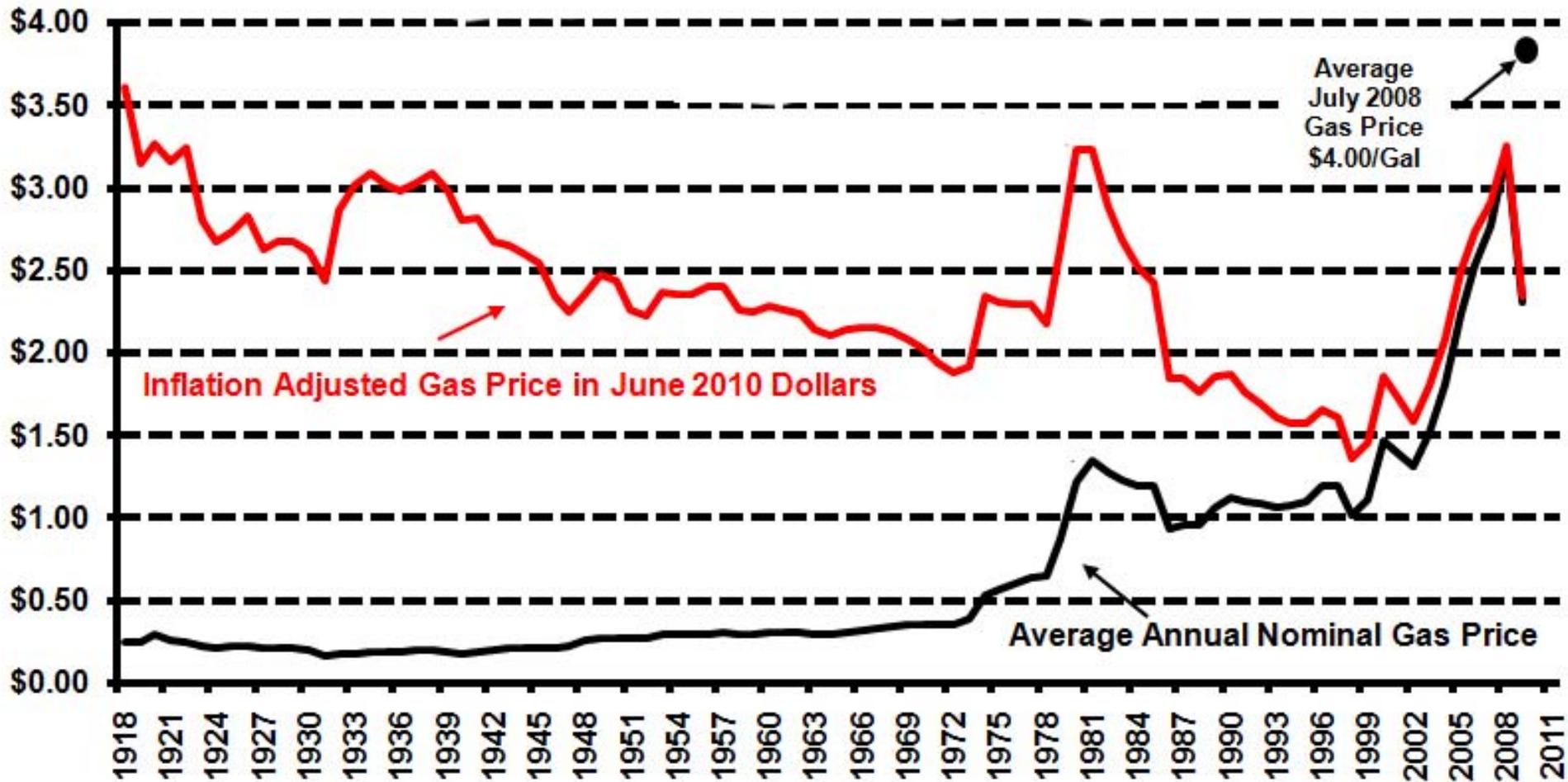




People Left Behind



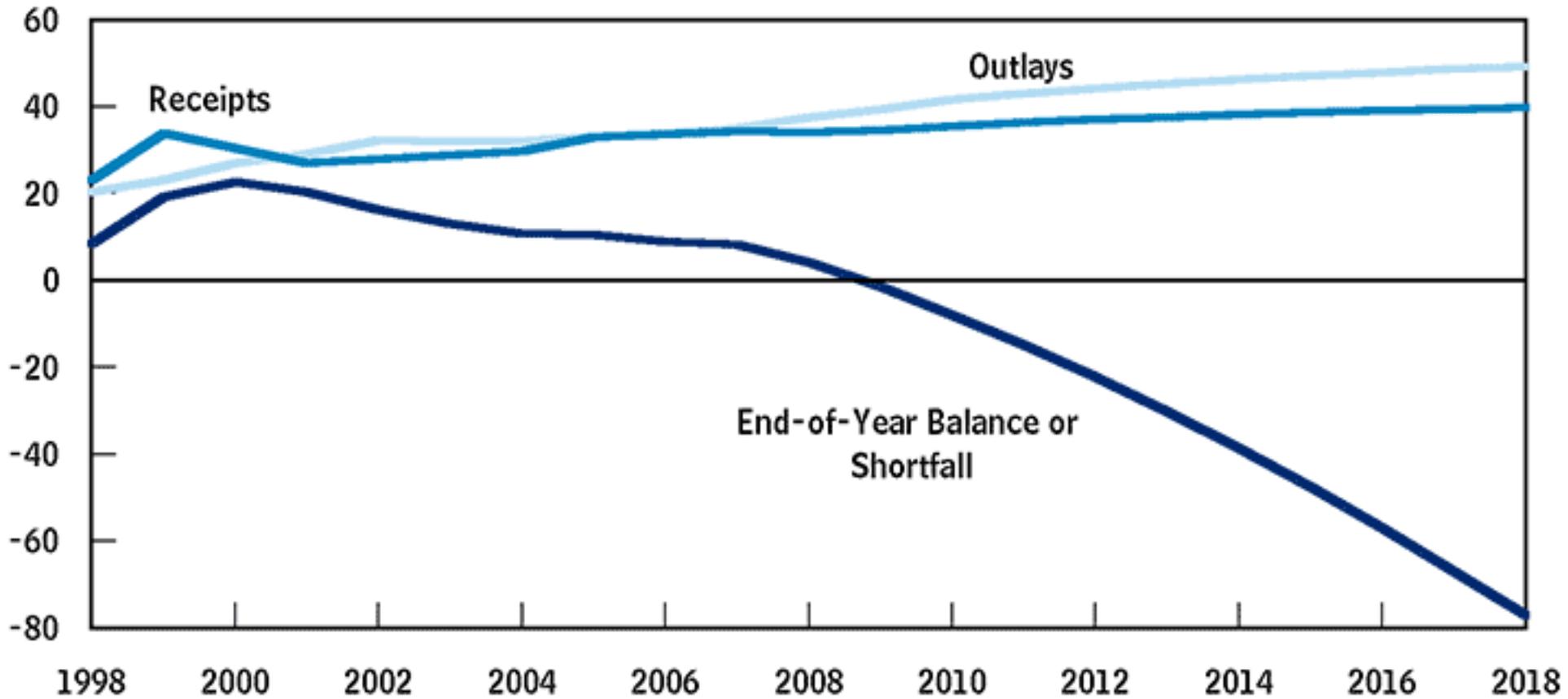
Today's Issues - Energy



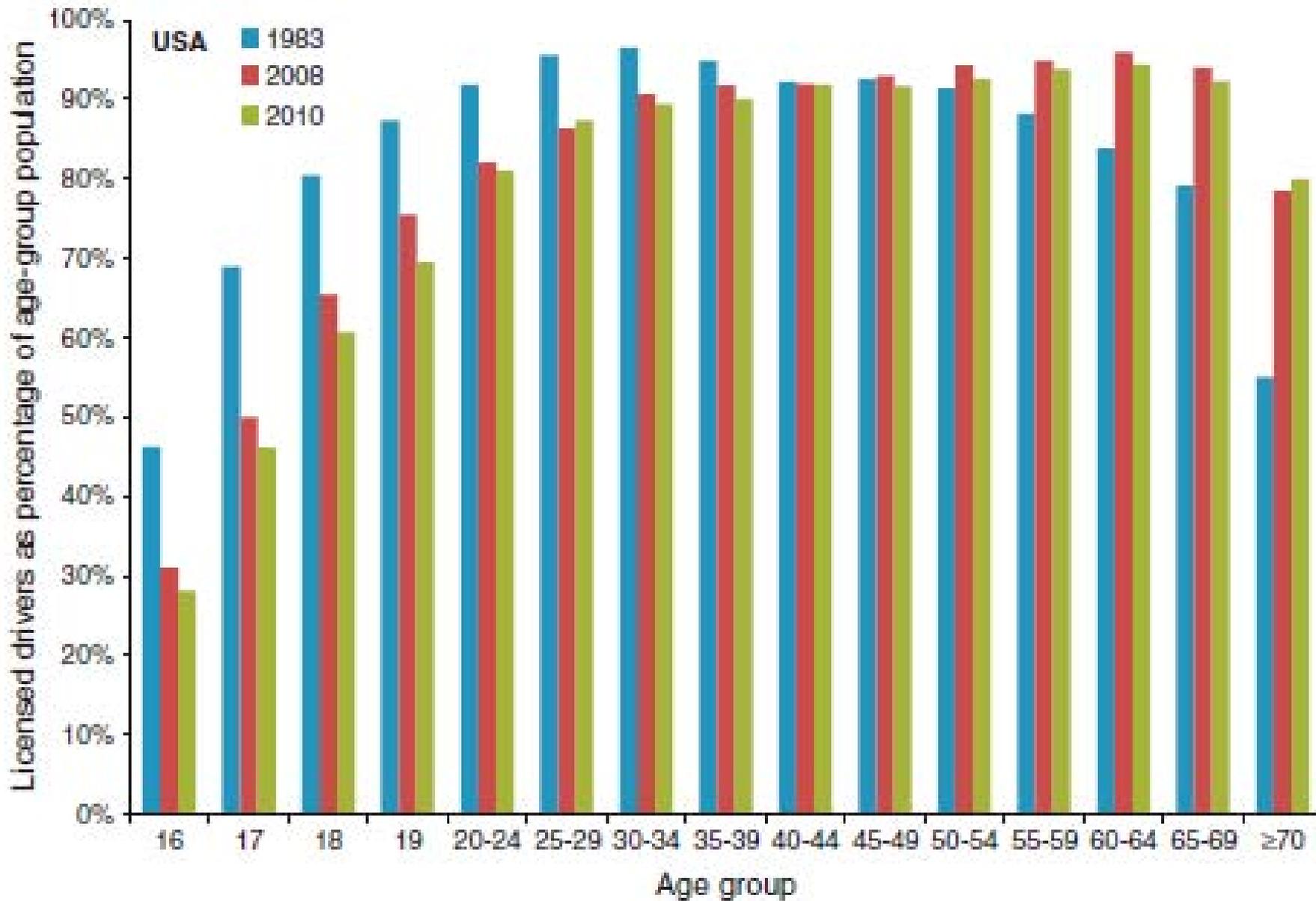
Note: Prices are Average Annual prices not Peak Prices so peaks are smoothed out considerably

Source of Data: US Energy Information Administration
CPI-U Inflation index- www.bls.gov

Today's Issues - Finance



US Licensed Drivers By Age Group



Move Louisville

Process

A Strategic Plan

**“A good hockey player plays where the puck is.
A great hockey player plays where the puck is
going to be.”**

Wayne Gretzky

VISION IN ACTION

IN A PERIOD OF SIX WEEKS, THOUSANDS OF LOUISVILLIANS ENGAGED IN A CONVERSATION ABOUT THE FUTURE OF THE CITY AND OVER 80,000 IDEAS WERE GENERATED FOR HOW TO IMPLEMENT A VISION FOR A CONNECTED, CREATIVE, COMPETITIVE LOUISVILLE.

BIG IDEAS

ACCELERATE

Connectivity



Creativity



Economy



Energy



Health



Living



Identity





Connect



Healthy



Neighborhoods



Progressive Economy



Sustainable

Our Strategic Approach

1. **Discovery**
2. **Desire**
3. **Design**
4. **Documentation**

Schedule



Ongoing Effort



Milestone Public Activity

	2013			2014							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
Data Collection	Ongoing Effort										
Public Kickoff		Milestone Public Activity									
Existing Conditions		Ongoing Effort									
Project Candidate Workshops				Milestone Public Activity	Milestone Public Activity	Milestone Public Activity					
Scenario Development and Evaluation						Ongoing Effort					
Project Prioritization Workshops								Milestone Public Activity			
Implementation Plans									Ongoing Effort		
Final Plan Development and Presentation											Ongoing Effort Milestone Public Activity

Move

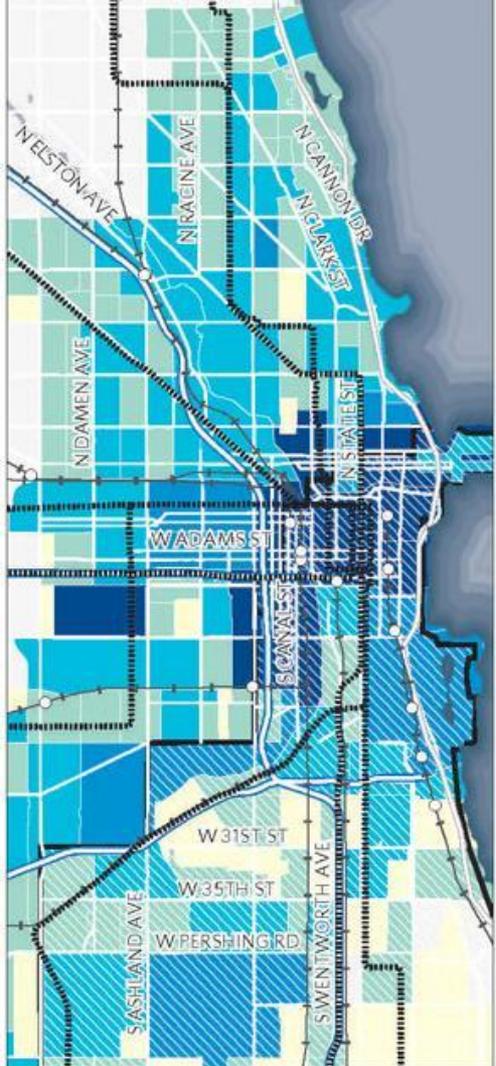
Differently

Travel Modes

	Drive Alone	Carpool	Transit	Walk	Other Means
Louisville Region (Kentuckiana)	82.5%	9.3%	2.8%	5.3%	
Louisville-Jefferson Metro	80.8%	9.3%	3.7%	2.2%	1.5%
Downtown workers (commute)					

Source: US Census, American Community Survey

Job Access



Total primary jobs, by tract

Current Access	New Access
0 - 200	0 - 200
201 - 1,000	201 - 1,000
1,001 - 5,000	1,001 - 5,000
5,001 - 15,000	5,001 - 15,000
Over 15,000	Over 15,000

Sidewalks



Transit Decision Drivers

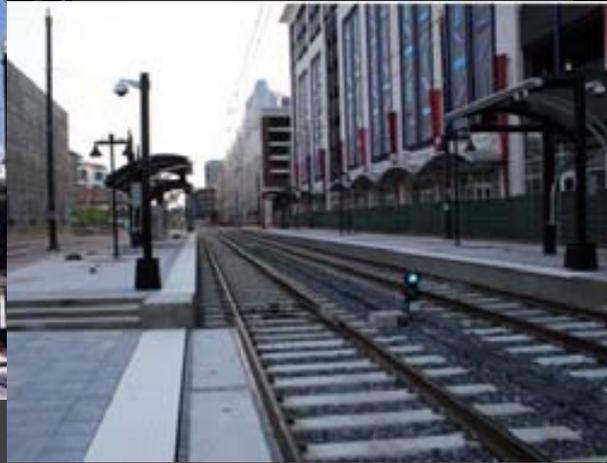
- **Frequency**
- **Hours**
- **Safety**
- **Cost (Relative To Driving)**

Transit Commitment - Denver



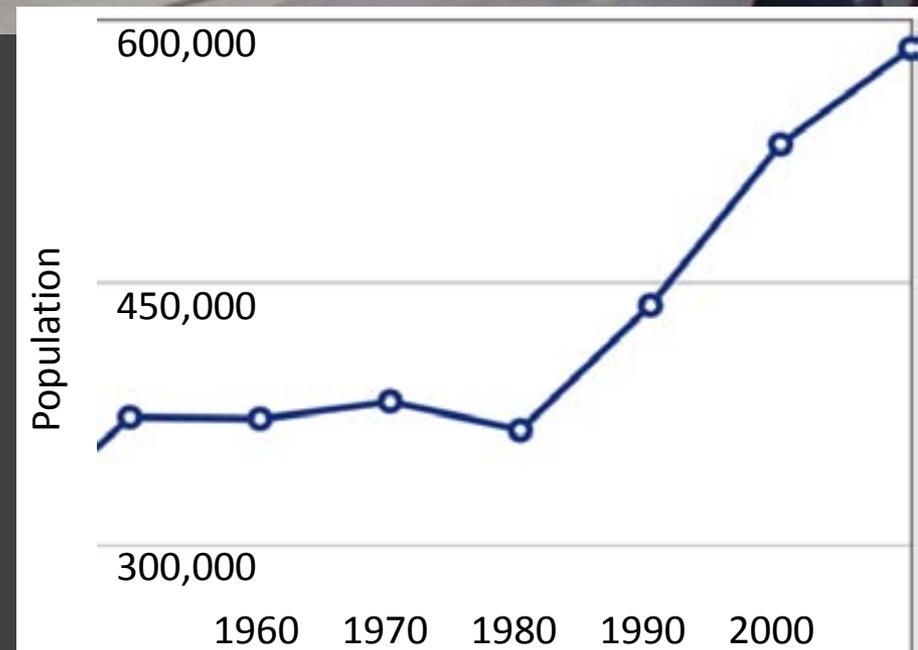
\$6.1 Billion Investment In 122 Miles of Transit

Transit Commitment - Charlotte



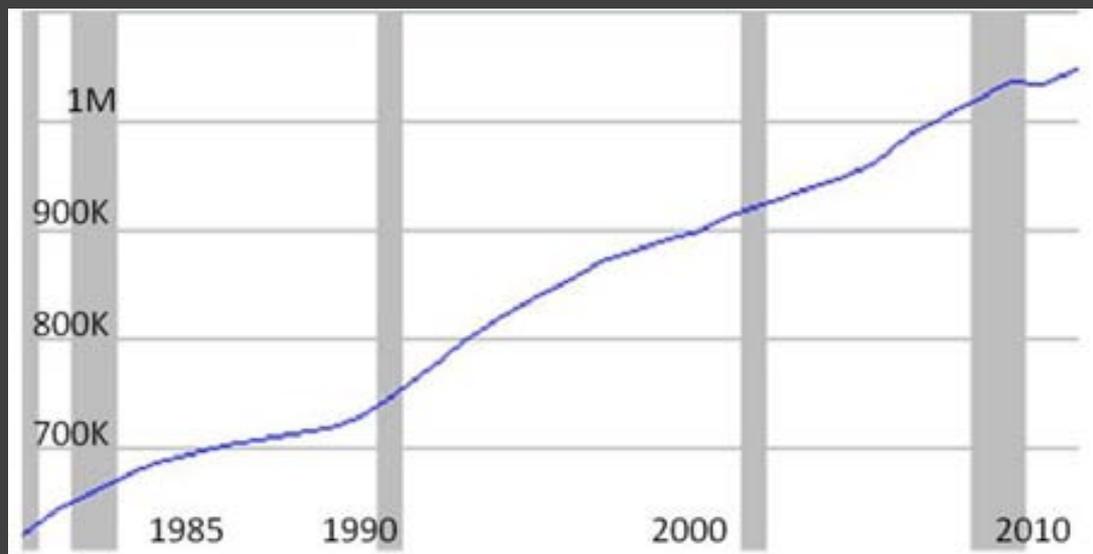
- \$8.9 Billion Investment In Transit
- Over \$1 Billion in Private Investment Before Opening

Transit Commitment - Portland



\$2.6 Billion Added to Local Economy By Getting Citizens to Drive 4 Less Miles Per Day

Transit Commitment – Salt Lake City



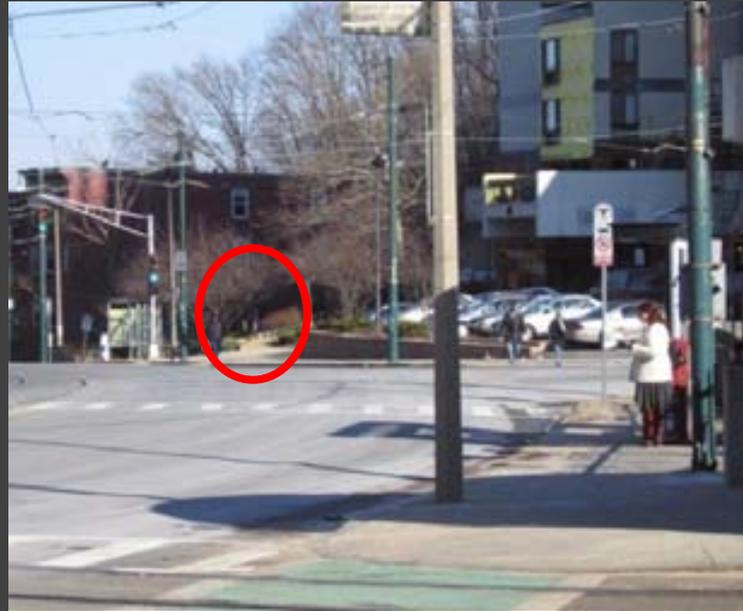
SLC tops the US in transit connecting people and jobs

MBTA Key Bus Routes



- MBTA's 15 highest ridership bus routes
- Capital Improvements

MBTA Key Routes



Bus stops too close



Signage issues



Poorly located boarding area

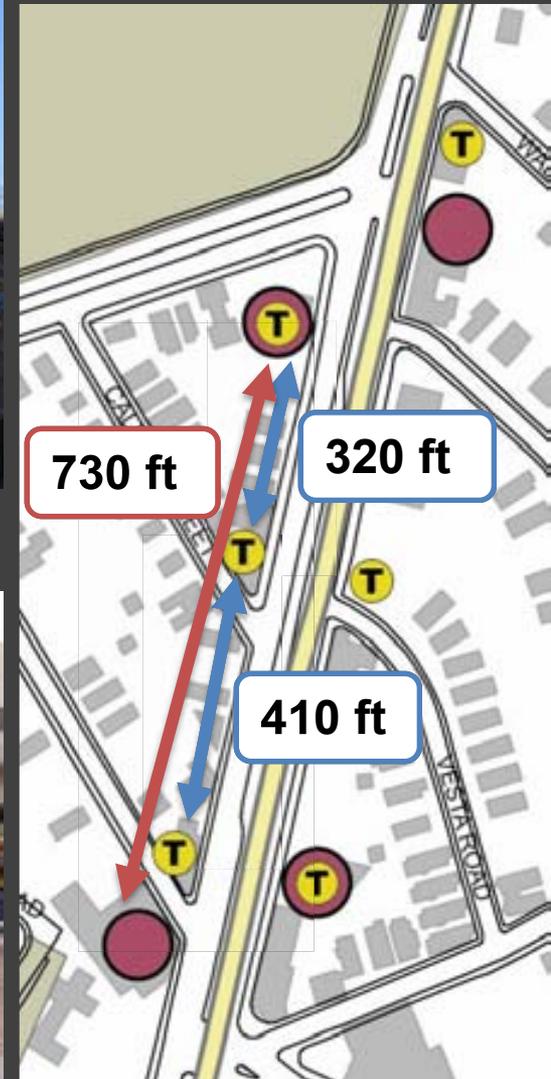
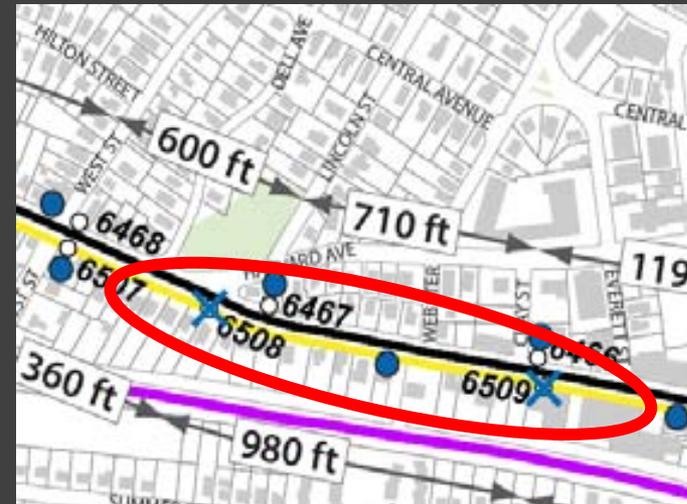


Bus stop too short



Lack of accessibility

Typical Improvements



Stop Consolidation

Signal Improvements

730 ft

320 ft

410 ft



Curb Extensions

Improved Amenities

Spacing

Cycle Design Is Not One-Size-Fits-All







For the price of a mile of highway, you too can have a bike-friendly city

Portland, Oregon is America's iconic cycling city, but I'm happy to say we're being swiftly overtaken as everywhere else gears up



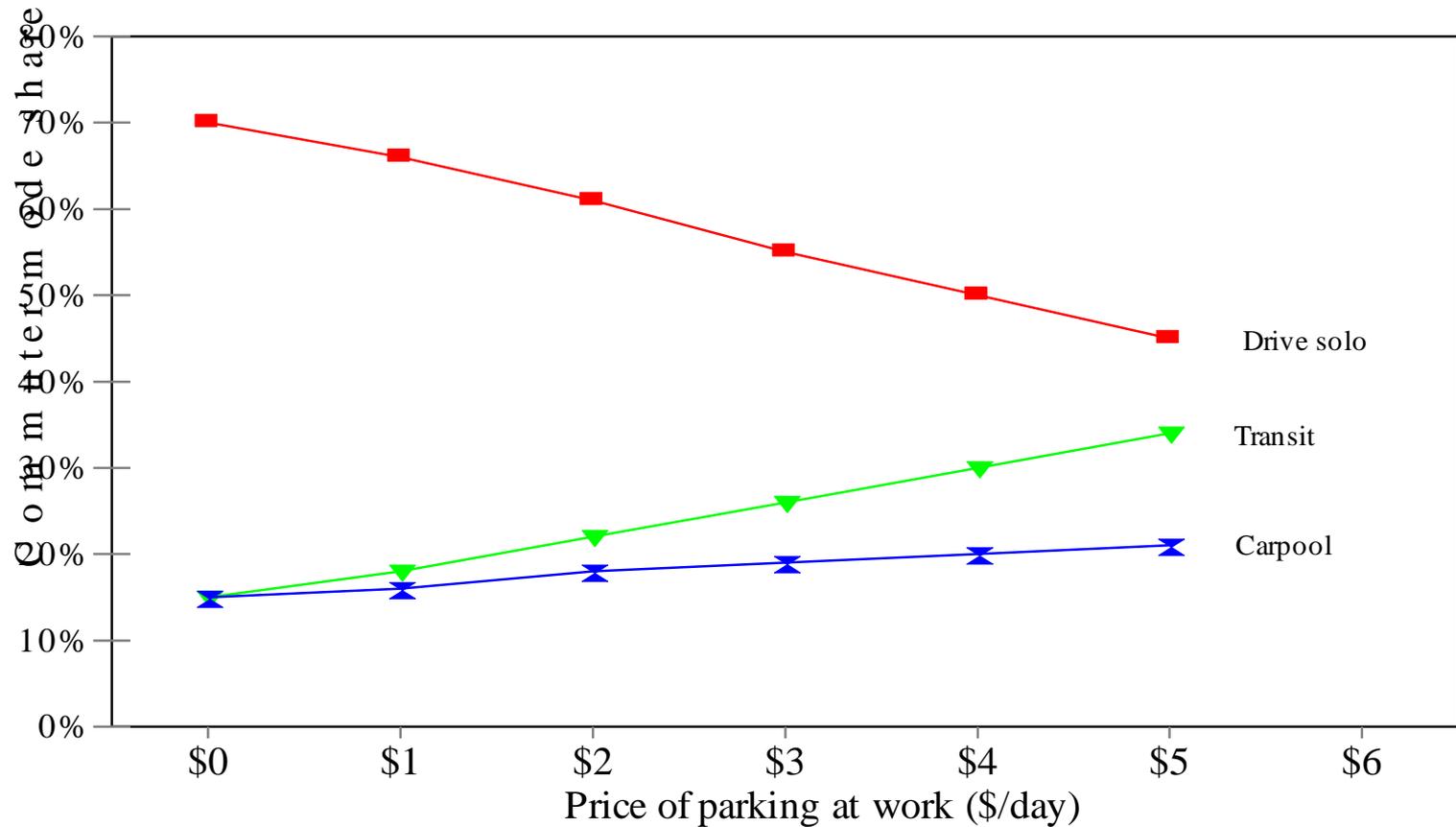
Elly Blue

theguardian.com, Monday 28 October 2013 09.45 EDT

Cars. They're noisy and ugly. They smell terrible and cause disease on an epidemic proportion. They move way too fast, take up an extraordinary amount of space, are a leech on the economy, and have a propensity to run people over, especially kids. What's to love?

Parking Prices Affect Mode Choices

For Commuters to Downtown Los Angeles

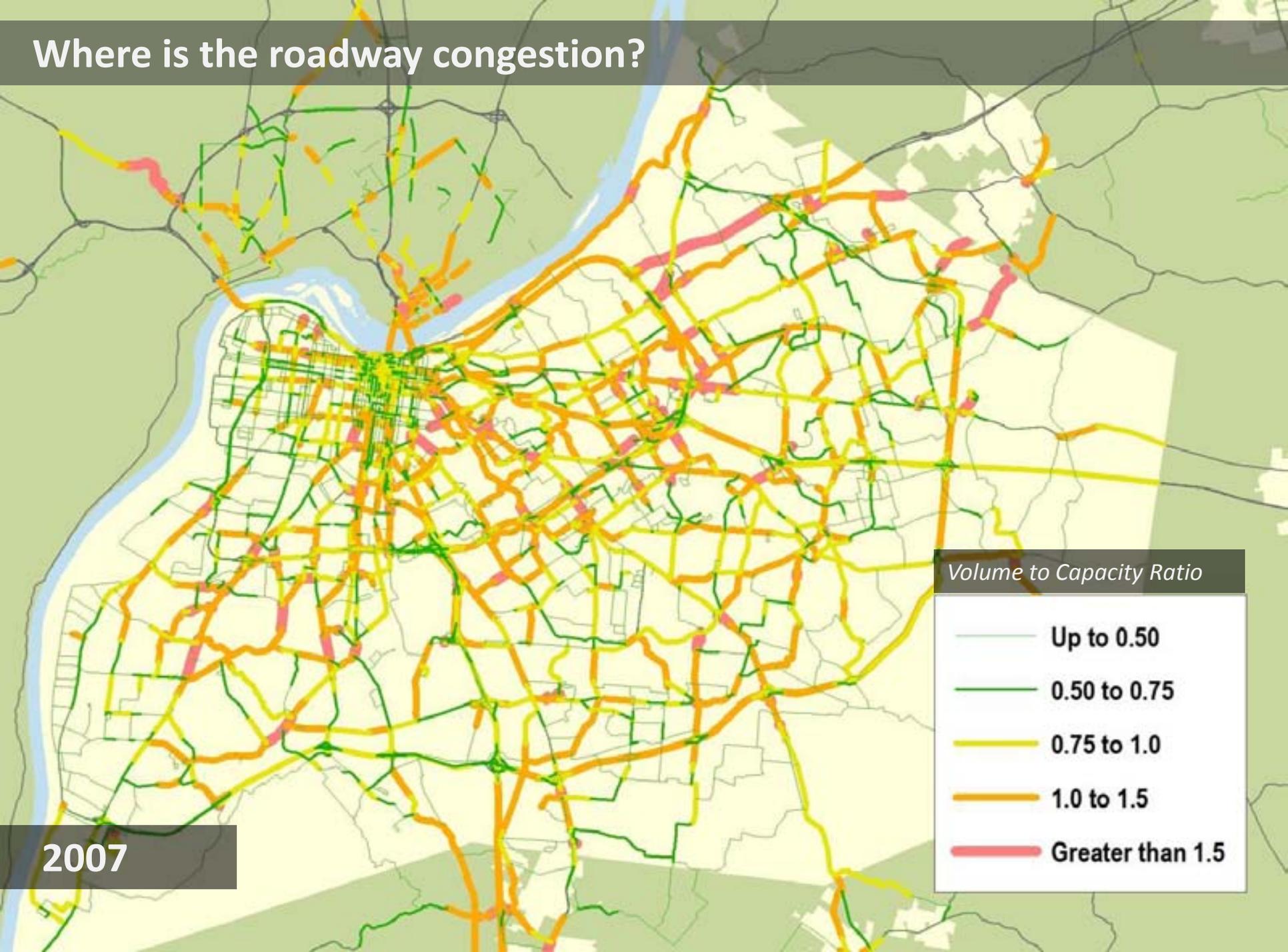


Source: Estimated from Willson (1991)

Grow

Differently

Where is the roadway congestion?

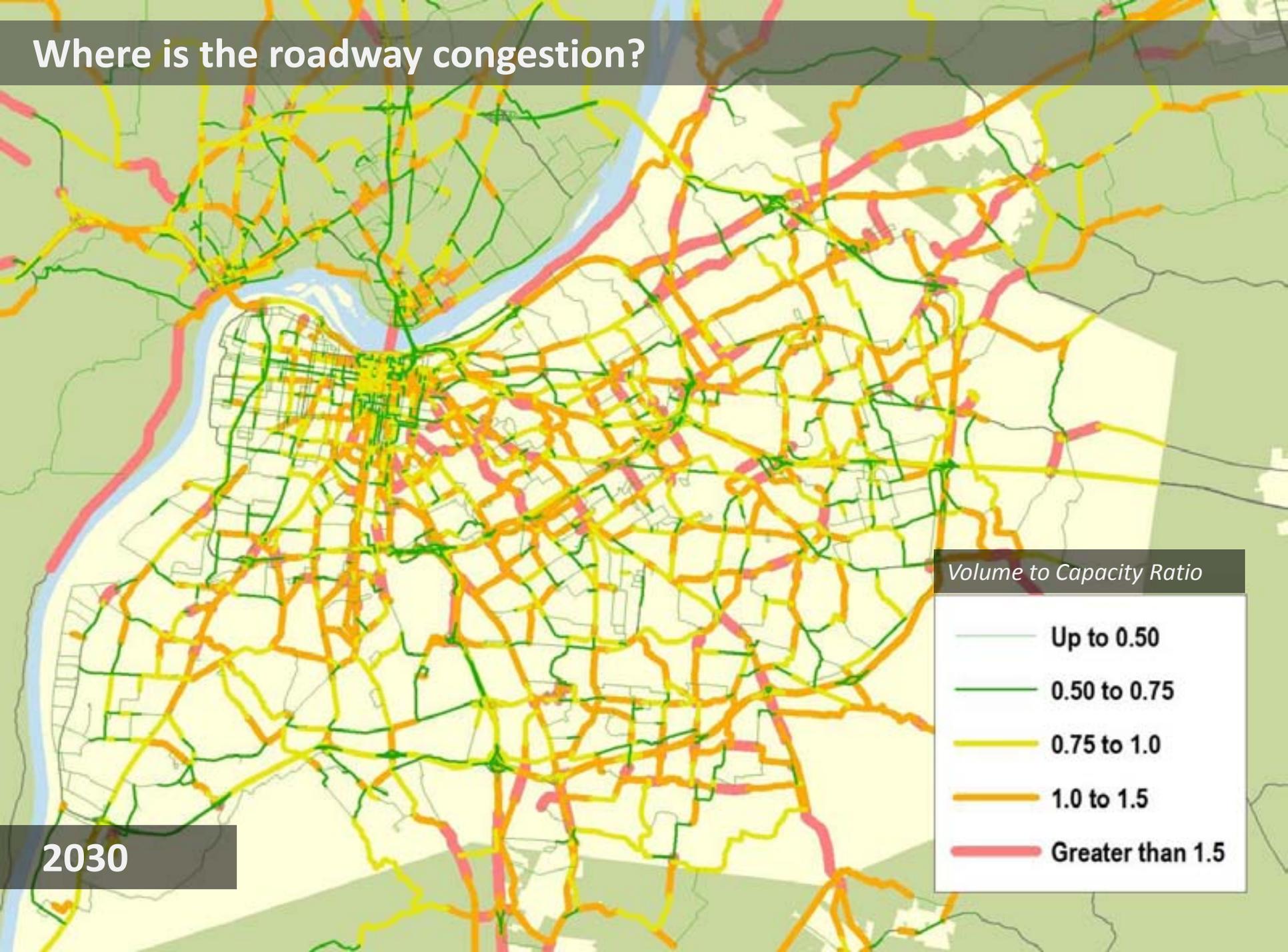


Volume to Capacity Ratio

- Up to 0.50
- 0.50 to 0.75
- 0.75 to 1.0
- 1.0 to 1.5
- Greater than 1.5

2007

Where is the roadway congestion?



2030

Volume to Capacity Ratio

Up to 0.50

0.50 to 0.75

0.75 to 1.0

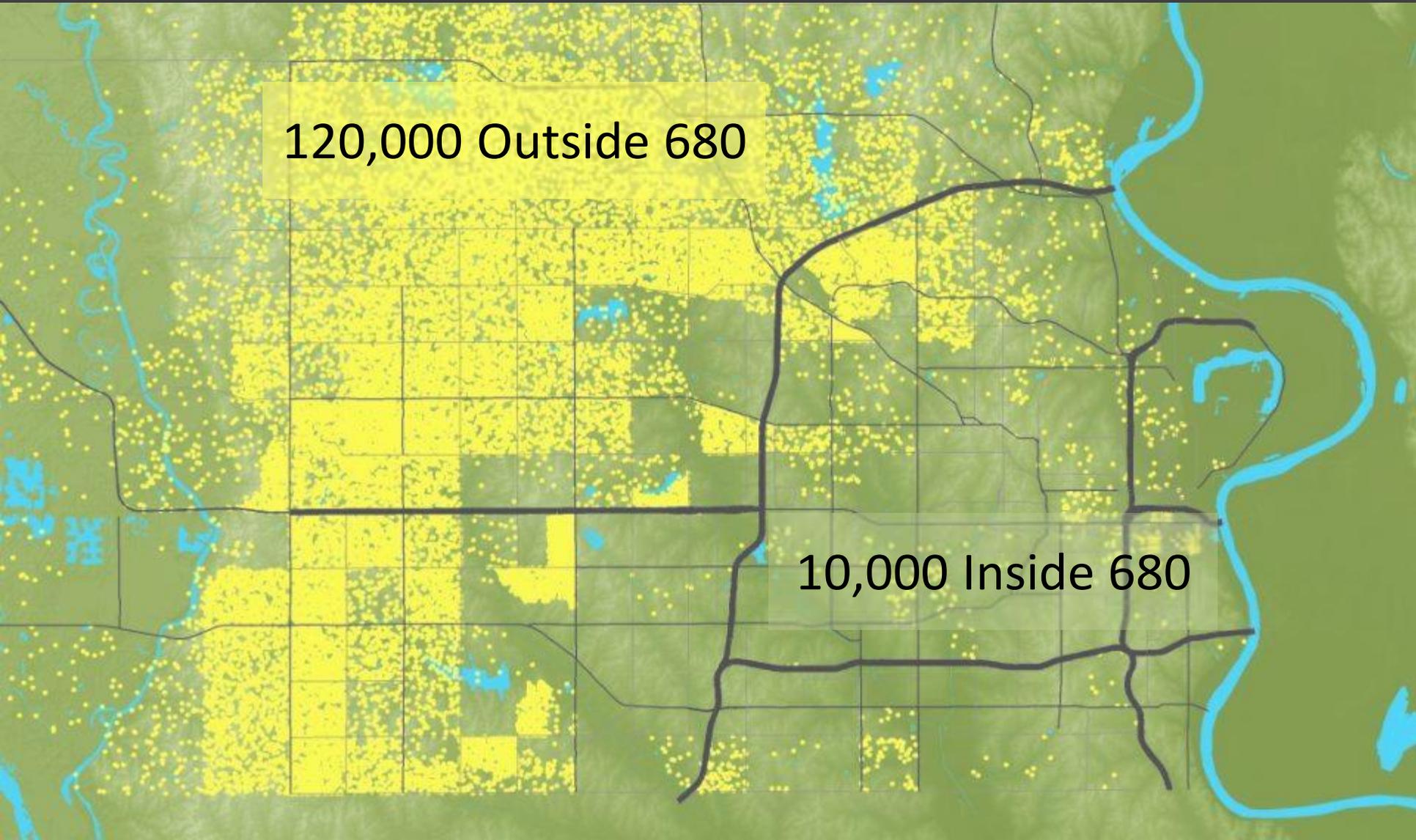
1.0 to 1.5

Greater than 1.5

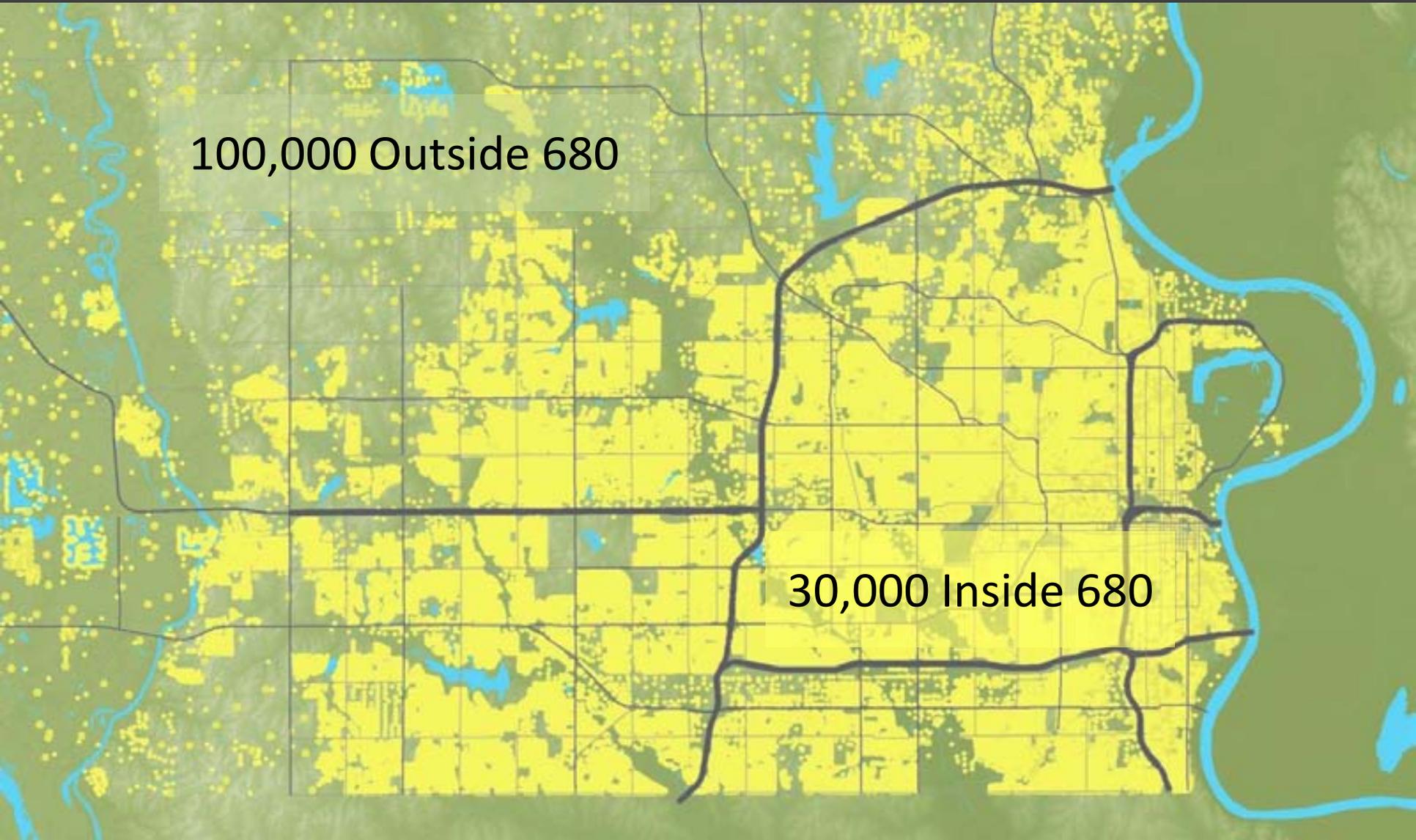
Metrics - VMT

Sustain Louisville

Reduce VMT 20% by 2020



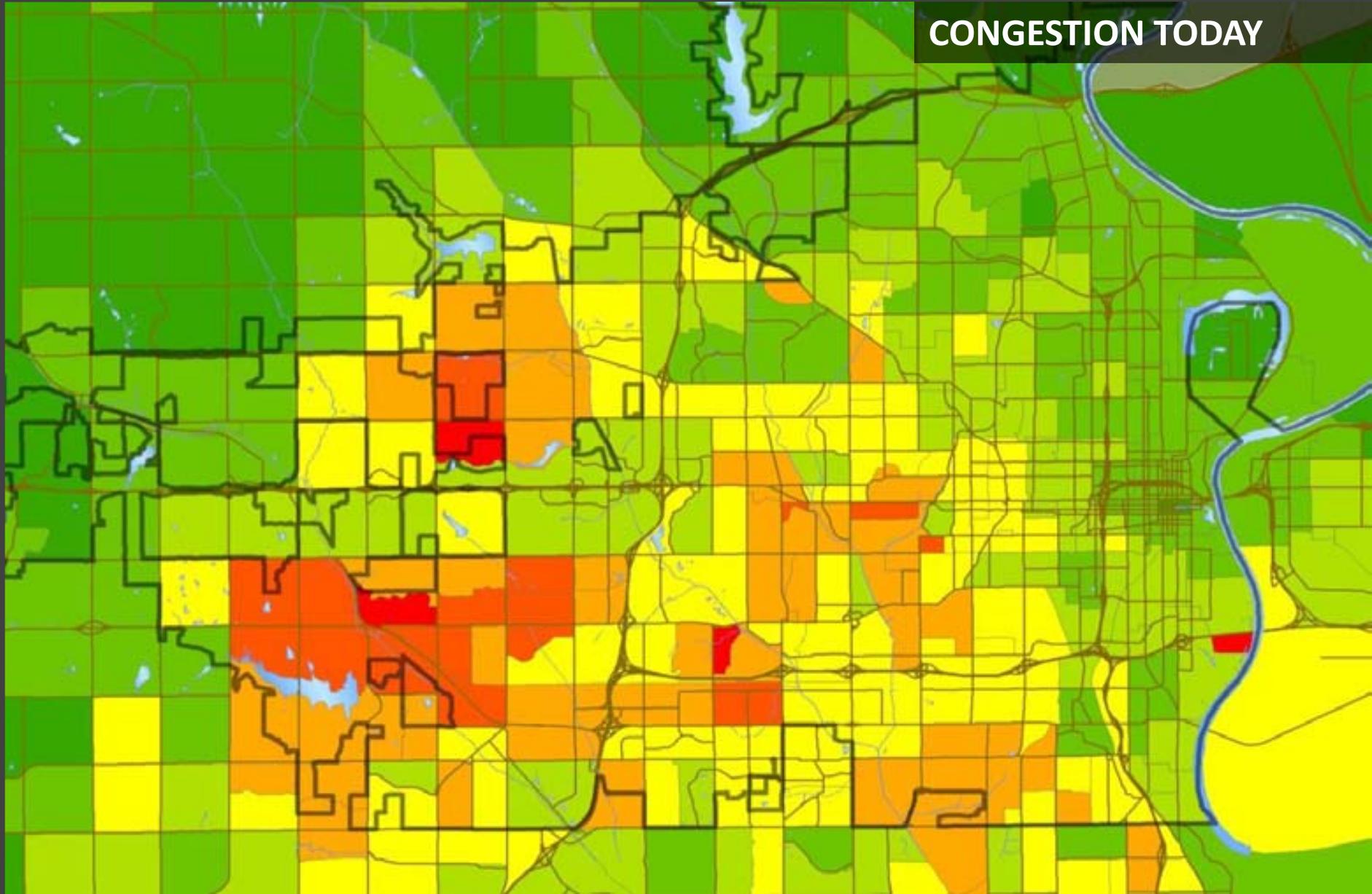
2035 Greater Infill Focus



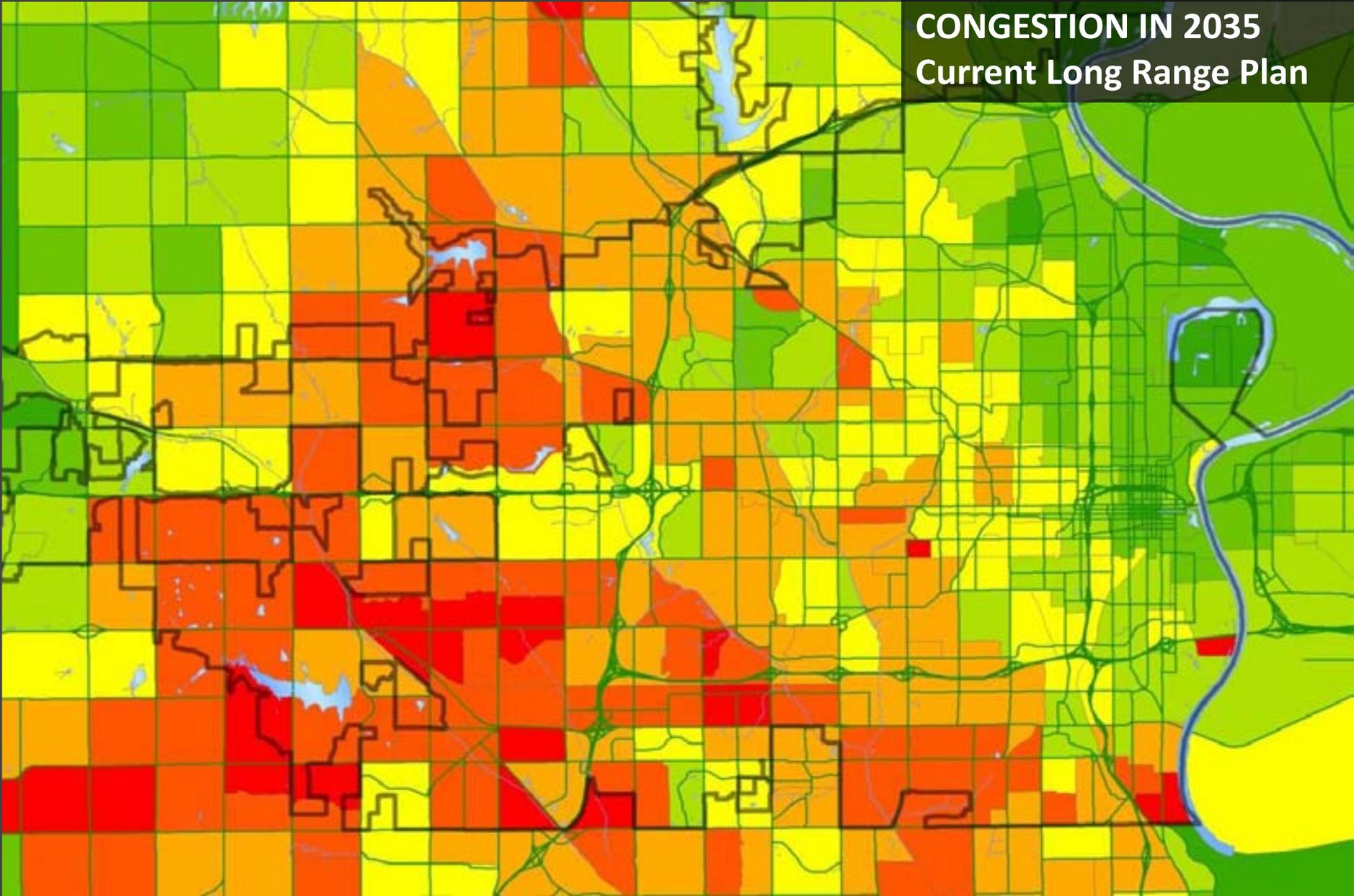
100,000 Outside 680

30,000 Inside 680

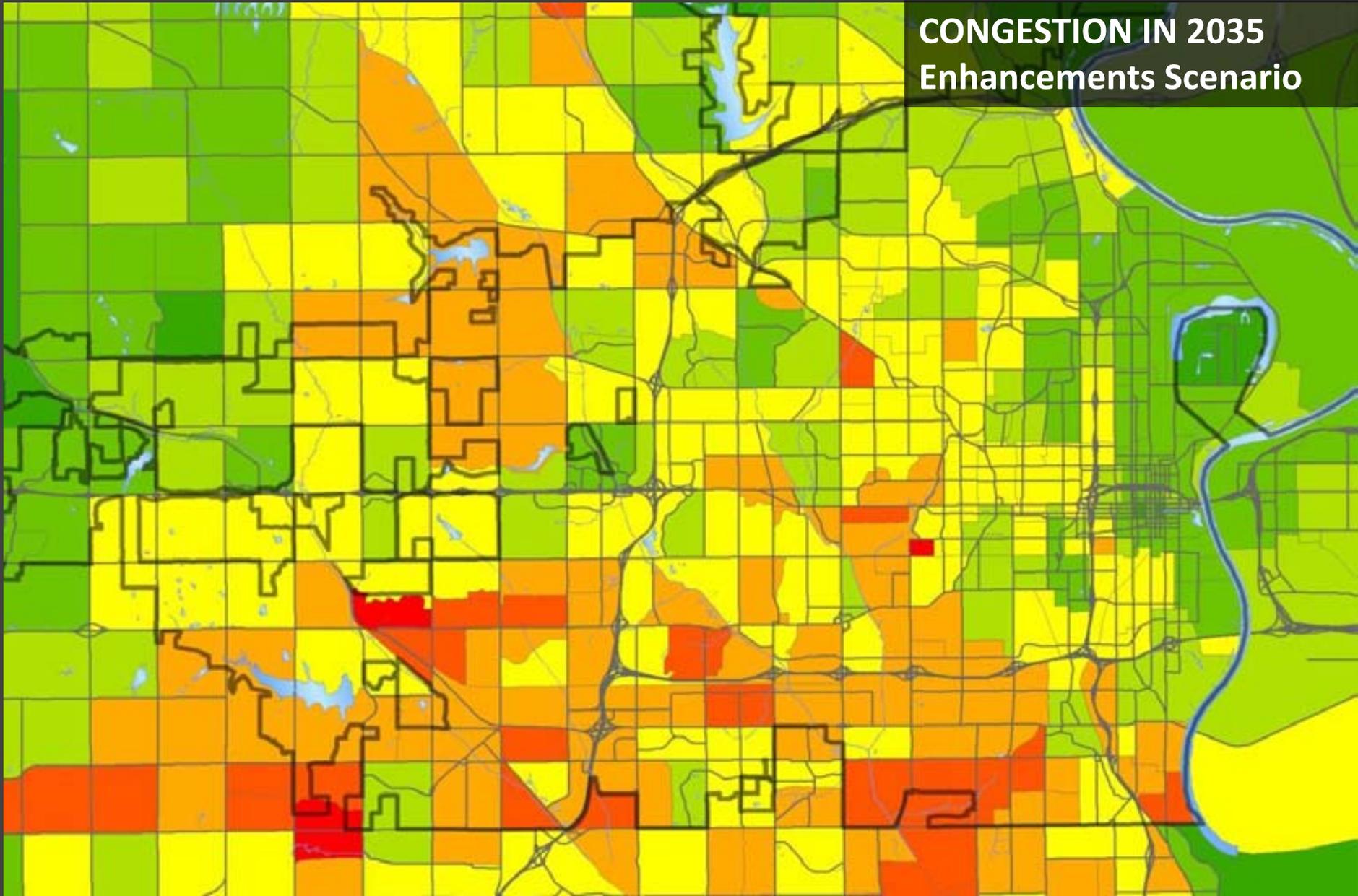
Metrics - Congestion



CONGESTION IN 2035
Current Long Range Plan



CONGESTION IN 2035
Enhancements Scenario



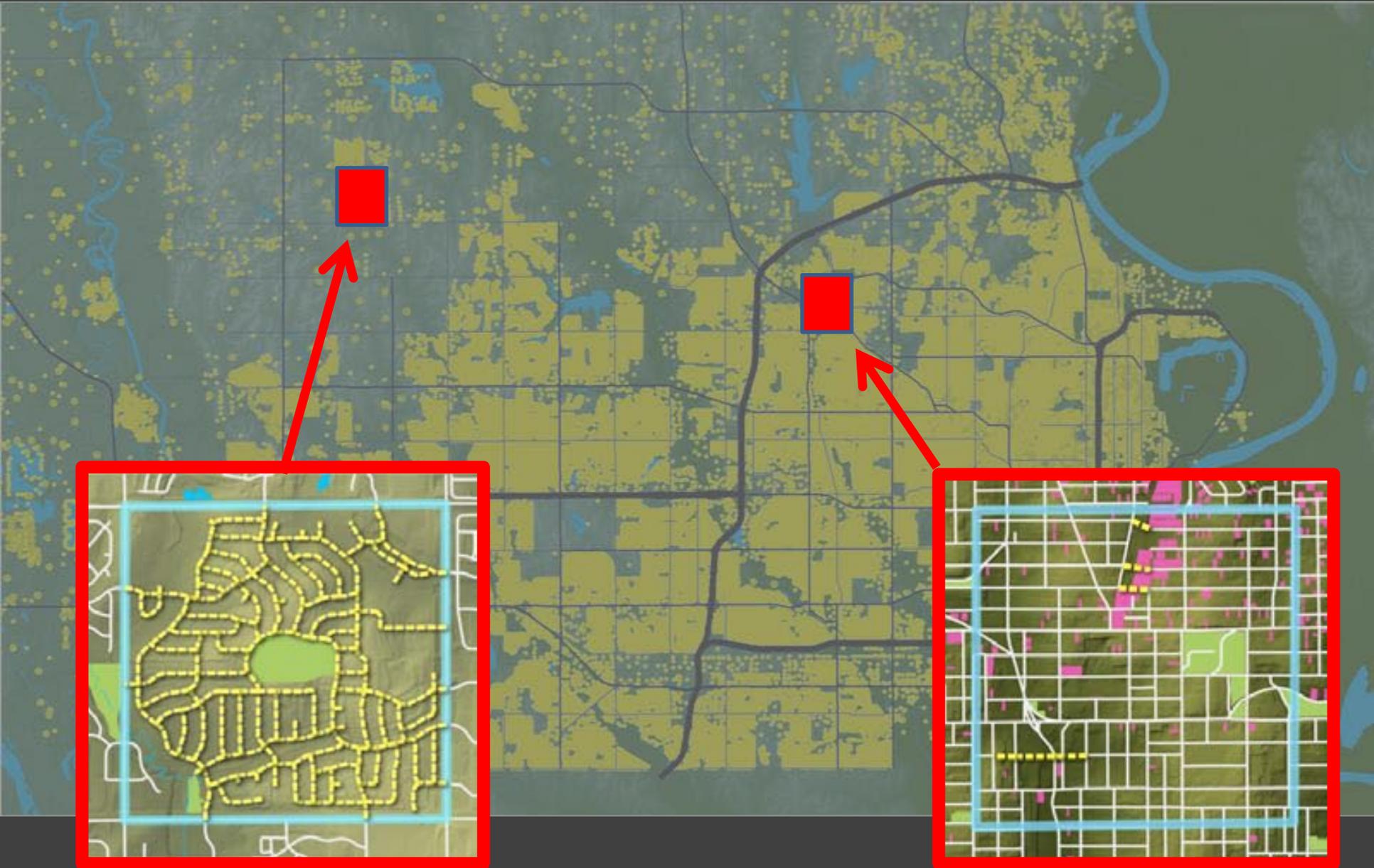
Metrics - Greenhouse Gas Emissions

Sustain Louisville

Reduce GHG emissions 20% by 2020



Metrics — Cost



Street + Transit Costs

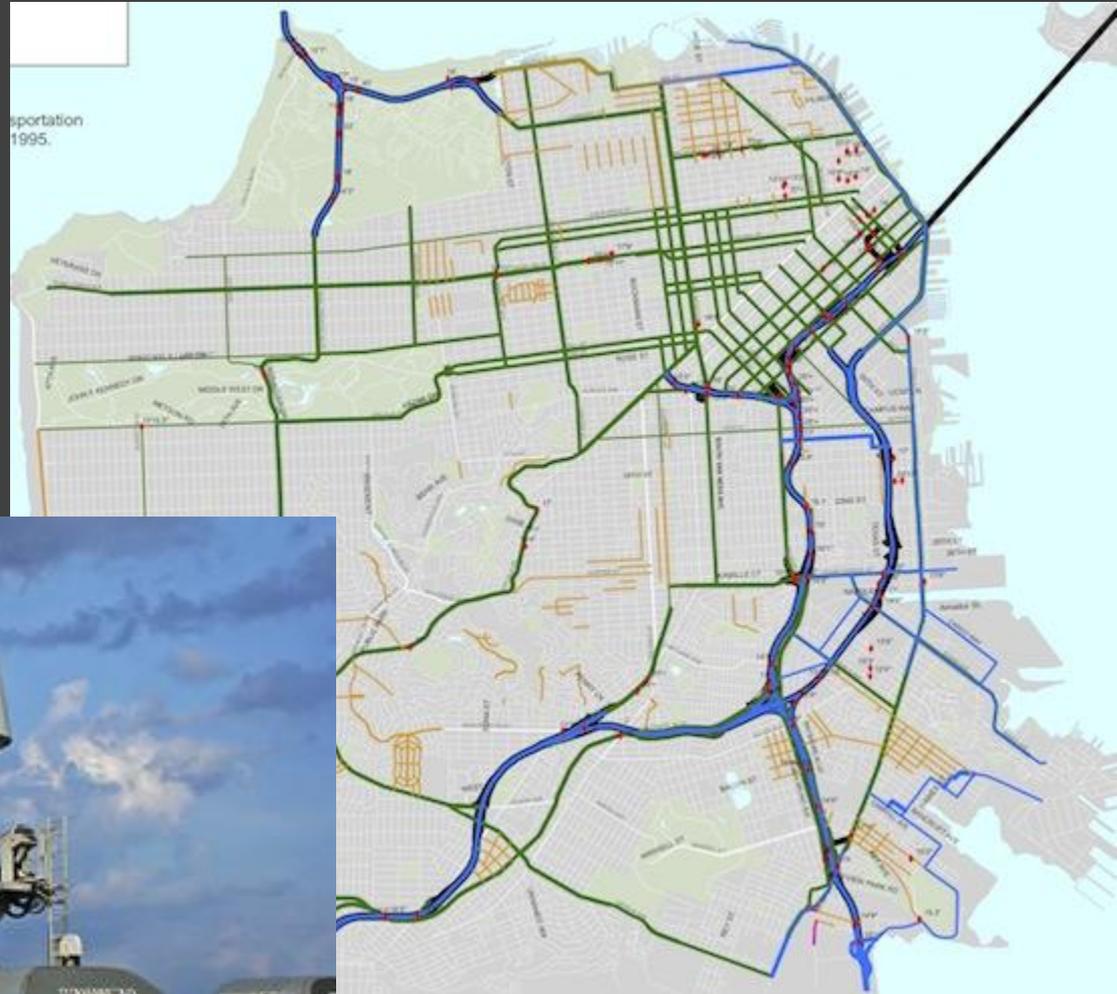
Conventional

Infill

Annualized Street Construction Cost	\$2,645,000	\$68,000
Annual Street Maintenance Cost	\$193,000	\$136,000
Annualized Transit Capital Cost	\$35,000	\$17,000
Annual Transit Operating Cost	\$235,000	\$119,000
TOTAL COSTS	\$3,108,000	\$340,000

**Put Rights of Way To
Work**

Support Logistics Economy



Support Retail and Restaurant



Clematis Street – West Palm Beach, FL

Support Retail and Restaurant



Clematis Street – West Palm Beach, FL

Fort Washington Way

Cincinnati, Ohio



Fort Washington Way

Cincinnati, Ohio



Fort Washington Way

Cincinnati, Ohio



Fort Washington Way

Cincinnati, Ohio



Underground transit center

Fort Washington Way

Cincinnati, Ohio





The city turns the park into parking (with freeway access)





CLUBHOUSE 00



CLEMENTS 00



CLEMENTS 00

Riverfront Parkway - Chattanooga



Riverfront Parkway - Chattanooga

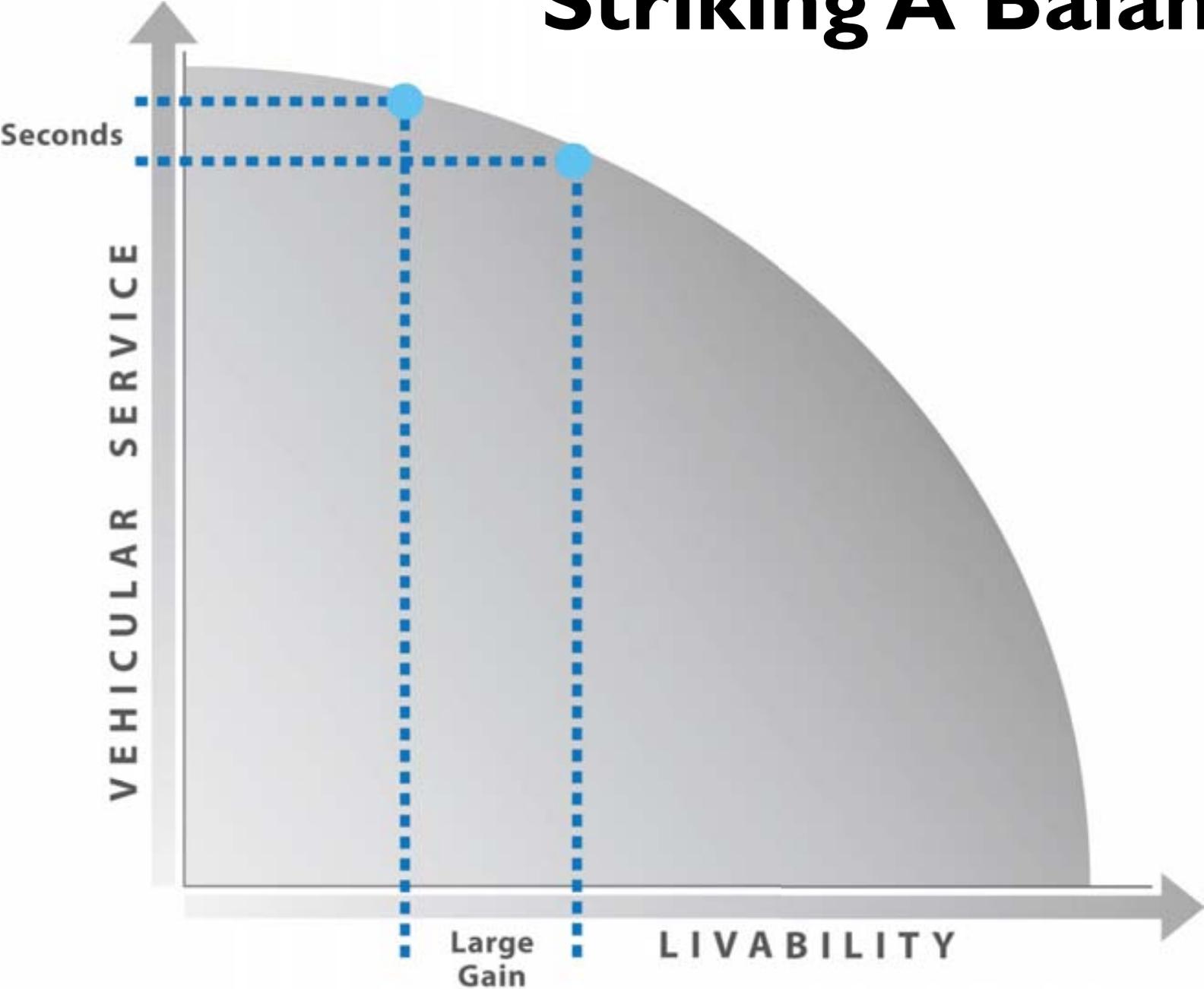


Riverfront Parkway - Chattanooga





Striking A Balance





We can't
keep
widening
our roads,
so we
have to
broaden
our
thinking.



USDG Urban Street
Design Guidelines

*Creative solutions for helping
people move around Charlotte*

www.charmeck.org



There's a
movement
afoot
to help
pedestrians
get
around
easier.



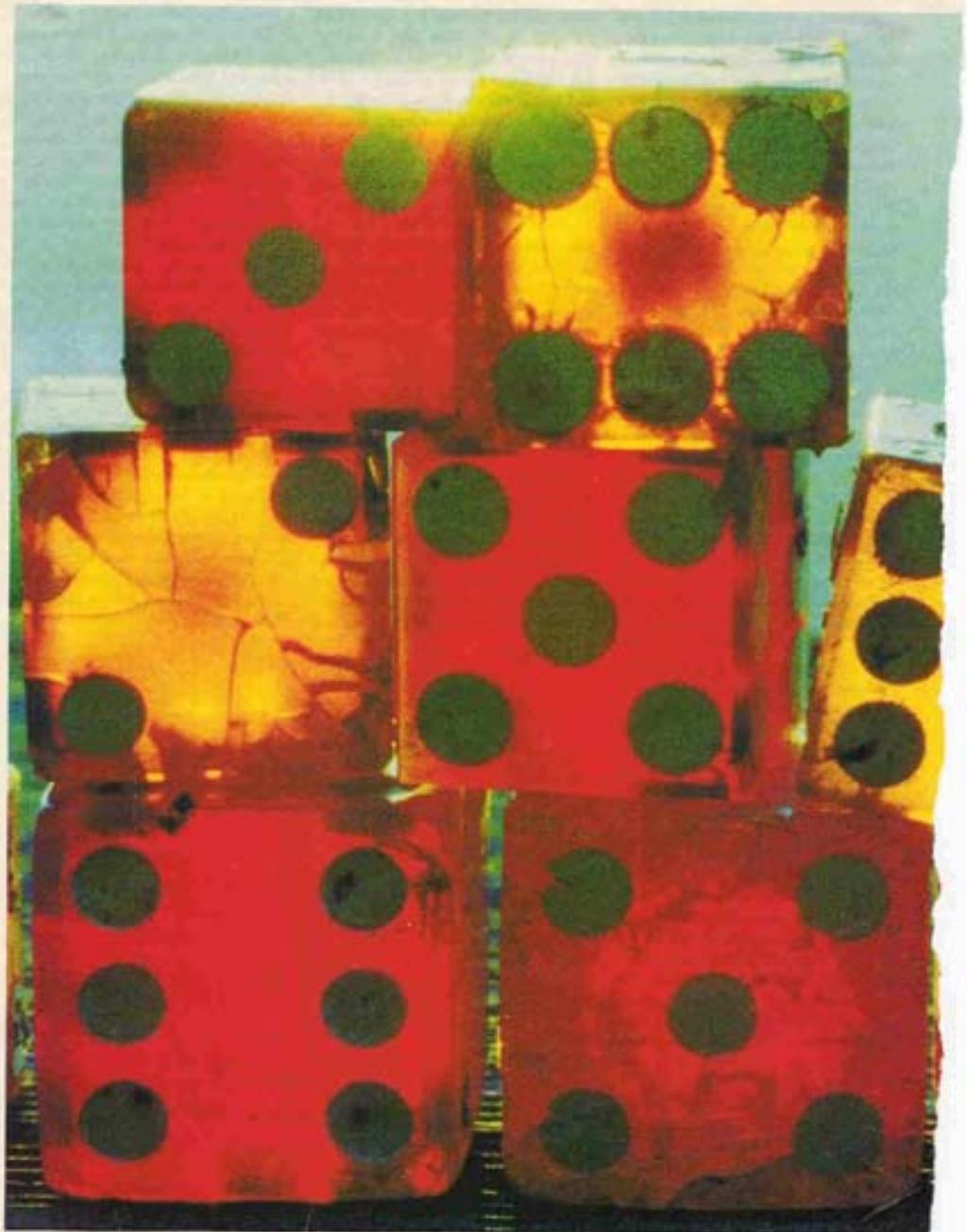
USDG Urban Street
Design Guidelines

*Creative solutions for helping
people move around Charlotte*

www.charmeck.org

**We can do
nothing and
just take our
chances...**

**...or we can
choose now to
plan for
change.**



Louisville

Tomorrow

Walking is a pleasure everywhere for everyone



Flickr/alisharusher

<http://www.flickr.com/photos/9541469@N05/2424508231/>

Cycling is comfortable for all ages



The needs of daily life are a walk away



Flickr/ohad*

<http://www.flickr.com/photos/ohadby/854161159/>

Transit is fast, frequent, reliable and dignified



Wikipedia

http://commons.wikimedia.org/wiki/File:Tramway_Strasbourg_FRA_001.jpg

Everyone knows and loves their neighborhood



Source: Southern Living

Food and energy are local and precious



Flickr/Mosman Council

<http://www.flickr.com/photos/mosmancouncil/8355140535/in/set-72157632454291329>

Social networks are fostered



Flickr/Ed Yourdon

<http://www.flickr.com/photos/yourdon/3863997453/>

Discussion – Project Goals

- provide **Connectivity Choices**
- protect **Safety and Health**
- promote **Economic Growth**
- maintain **Fiscal Responsibility**
- assure **Environmental Sustainability**
- enhance **Neighborhoods**