



TMP Update: Building Blocks, Plan Document and Implementation

City Council
August 5, 2014



Presentation topics

- Update process
- Structure of the Plan
- Transit and financial program
- Measurable objectives
- Next steps



TMP Update Process

- Started with Policy Review
- Listening and learning phase
- Technical analysis and new tools
- Identification of major building blocks
- Draft plan/public outreach
- Acceptance/implementation

TMP Policy Review Phase
Spring – Summer 2012

Data Collection & Analysis
TAB Review & Expert Panel
Outreach to Agency Partners

Direction from City Council
Fall 2012

Policy Review
TMP Objectives & Focus Areas
Confirm Direction for Update

Listening and Learning
Fall 2012 – Fall 2013

Community Engagement/Collaboration with TAB
Transit State of the System report
Bike/Ped Innovations outreach and selection

Sept. Flood

Planning and options
Fall-Winter 2013

Technical analysis & alternatives development
Bike/Ped Innovations Installation/evaluation
Eco Pass study results

Draft Refinements &
Recommendations
Winter-Spring 2013 -14

Transit Framework, criteria and alternatives
Investment Programs
Transit Vision plan

City Council Review
Proposed Refinements &
Recommendations

Action Plan Development
Focus Area integration and investments
Draft/Final Plan review and approval

We are Here

Policy Review

- Policy foundation sound
- Focus areas for improvements
 - Technical work really enhancements of existing efforts
 - Build on CTN
 - Modal emphasis on walking and biking
- Integration with Sustainability
 - Ongoing efforts will inform the TMP
- Enhanced measurable objectives

TMP Work Areas

Focus Areas:

- Complete Streets – Transit “Best of the Best”, Bike 2.0
- Regional - NW Area Mobility Study, US 36
- TDM- Eco Pass Study, AMPS, TDM Tool Kit
- Funding- Revenue projection, project list review, refinement of TMP investment programs
- Integrate with Sustainability- AMPS, Envision East Arapahoe, Climate Commitment, Civic Center, Comp. Housing, inform BVCP



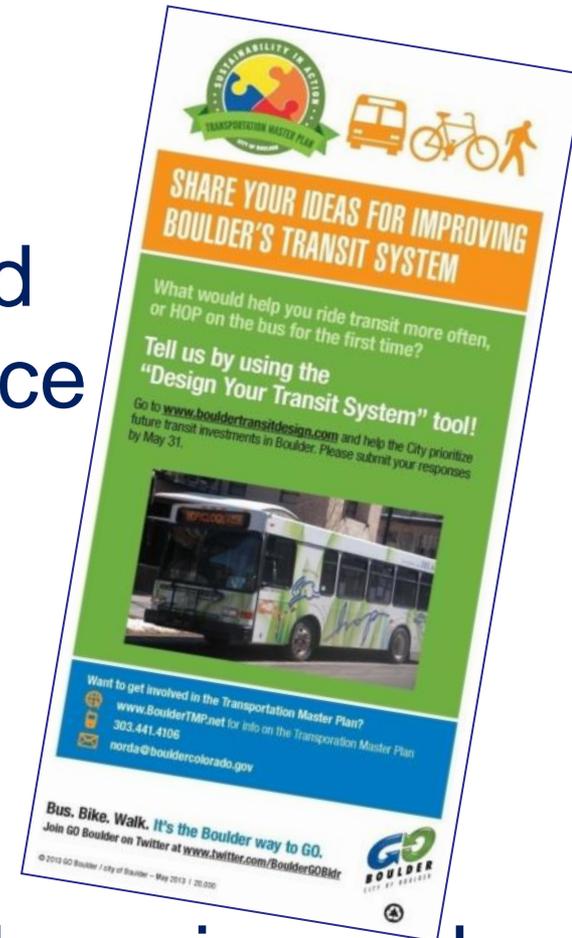
Public Involvement Summary

- Cool Planning Workshop
- Multiple open houses
- Advisory committees
- Web site
 - update info.
 - Design your Transit System tool
- Schools/youth outreach
- Social media



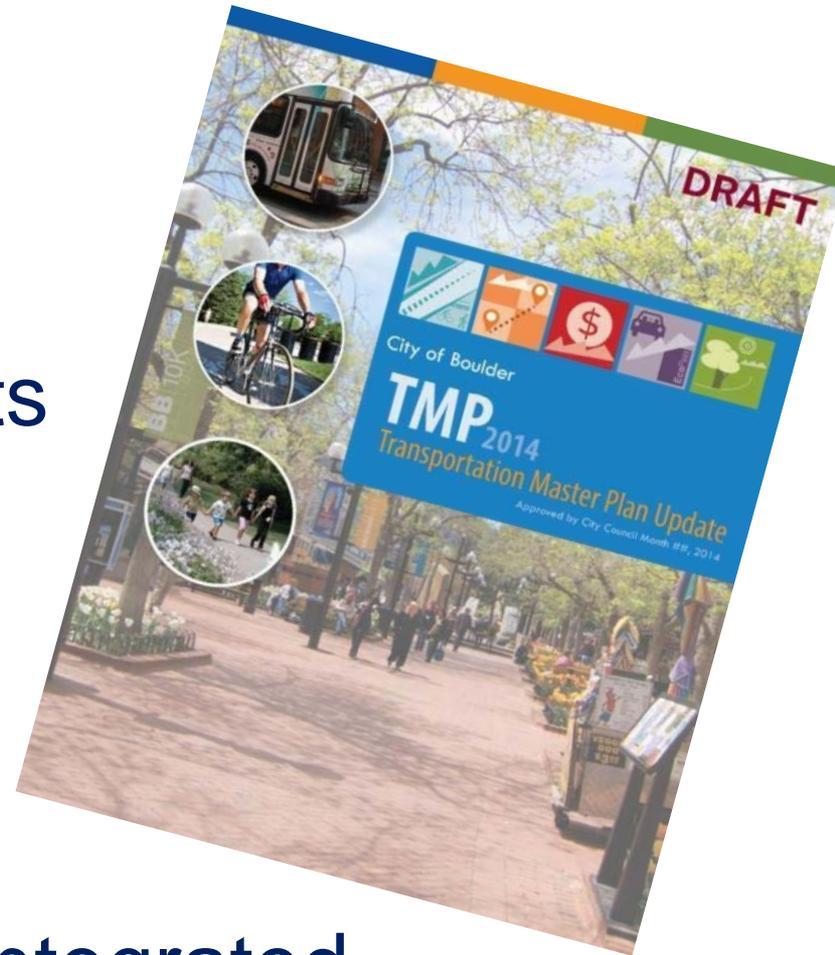
Listening and Learning Highlights

- Transportation policy
 - Increased awareness of land use, parking, TDM importance
- Walk/Bike
 - Continue innovations
 - Change the culture
- Transit
 - Want more of CTN, regional service and real time info. etc.



Plan Structure

- Significant re-organization with outcomes focus
 - Transit planning much more developed
 - Programmatic elements enhanced
 - NAMS work included
 - Measurable objectives more prominent
 - Climate Commitment integrated



Plan Structure (cont.)

- Action Plans for each focus area
- Carried forward- policy summary level
 - Five Focus Areas
 - Refined investment policies
 - Three investment programs
 - Extensive supporting material in appendices
 - Process materials and Web mapping

Plan Structure (cont.)

- Integration with ongoing efforts:
 - Envision East Arapahoe
 - AMPS
 - Civic Area
 - Comprehensive Housing
 - BVCP
- TMP informs these efforts
- TMP may be changed by them

Plan Highlights

- Complete Streets- Walk/Bike

- Innovations approach

- Living Lab approach-
has wider applications

- Walk Audits &
Walkabouts

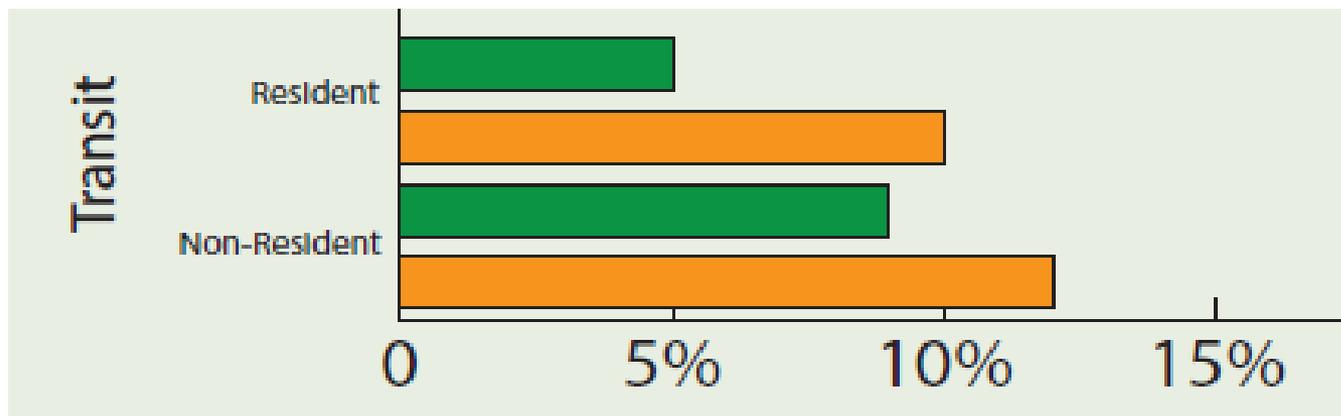
- Bike 2.0 analysis

- Increased programmatic funding (4 Es)
- Will affect investment programs as
develops, current fiscal impact unknown



Transit: The Big Picture

- Enhanced CTN and Via services
- Local – regional bus rapid transit (BRT) system development
- Reduce barriers & renew focus on the customer



Mode Share
Current / Target

Programmatic

- Real time information
 - Open vehicle data startup
- Explore data aggregation role
- Develop policy for transportation network companies (ie. UberX, Lyft, SideCar)

Encouragement

Promoting active transportation creates awareness of travel options, the first step in shifting behavior.



Real-Time Transit Information	Directions	What's Nearby?
 capital bikeshare Wilson Blvd & N Oakland St 7 BIKES / 4 BIKES 2 MIN WALK		White House 1600 Pennsylvania Avenue 5 MIN WALK Lincoln Memorial Lincoln Memorial Circle 8 MIN WALK
 Virginia Square Metro Vientia New Carillon 5 / 11 4 MIN WALK		Dupont Circle Constitution Ave. 3 MIN WALK Smithsonian Constitution Blvd. 2 MIN WALK
42 Wilson Blvd + 10th St Ballston - Pentagon 14 8 MIN WALK		Capitol Constitution Blvd. 20 MIN WALK Washington Monument Constitution Blvd. 5 MIN WALK
38B Washington Blvd + 13th St Westbound to Ballston Station 10 5 MIN WALK		National Mall Constitution Blvd. 5 MIN WALK Reflecting Pool Constitution Blvd. 5 MIN WALK

TransitScreen

Programmatic

- Ridesharing
 - Carpool/vanpool
- Pedestrian – transit wayfinding
- Transit-bicycle integration
 - Pilot expanded bicycle racks/bike parking

Encouragement

Promoting active transportation creates awareness of travel options, the first step in shifting behavior.

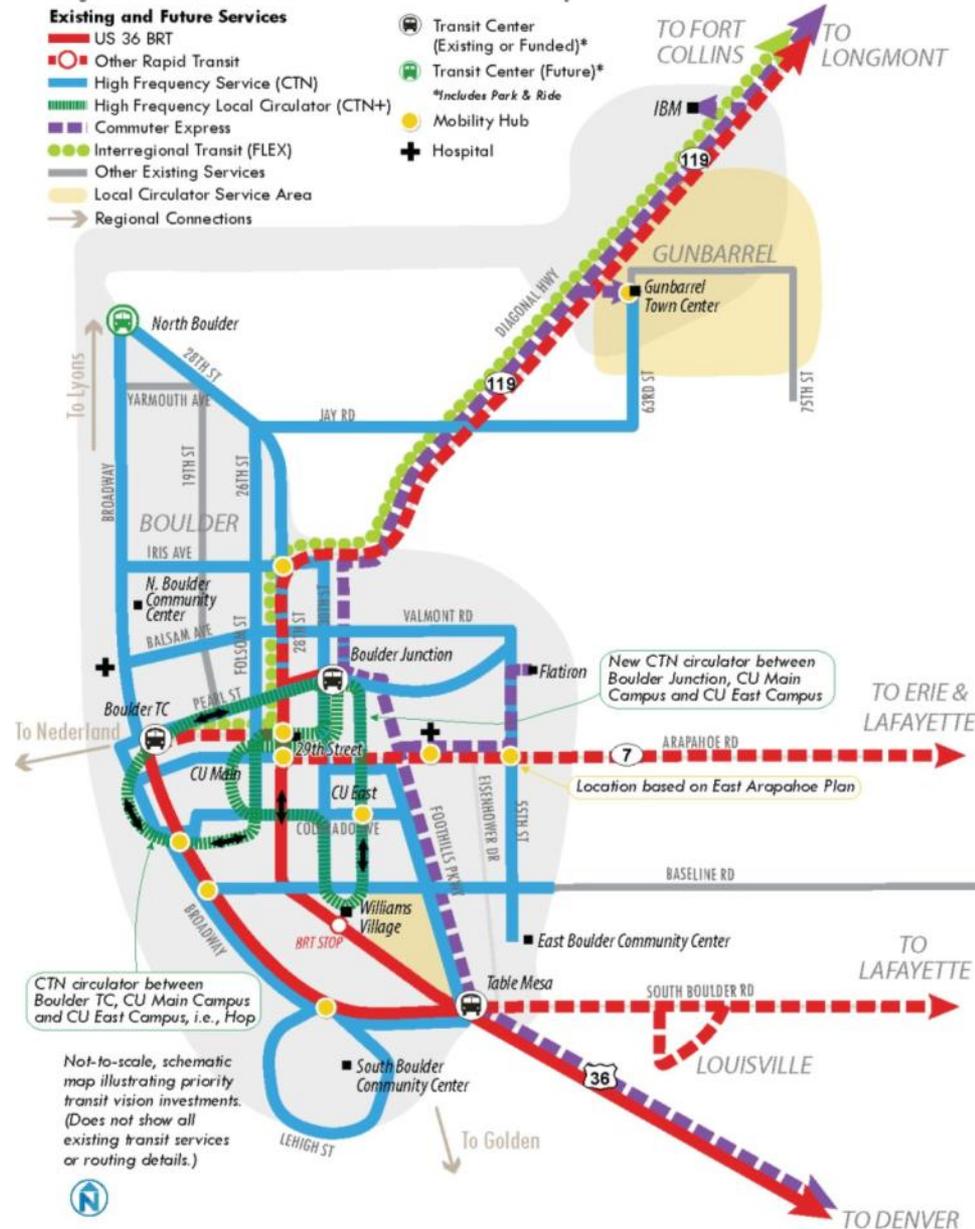


Service

- Connect activity centers
- Reduce duplication
- Consistent headways
- Direct legible routing

Boulder Renewed Transit Vision

Schematic of Priority Transit Corridors



Note: This map does not directly illustrate all services or routing details currently in place. A map of the existing transit system can be found on the City of Boulder [website](#).

Service

- Local Priorities
 - Address loading and speed and reliability issues
 - CU Main – East Campus
 - CU East – Table Mesa
 - Key activity centers – Boulder Junction



Service

- Regional Priorities
 - US 36 BRT
 - SH-119 (Diagonal) BRT
 - SH-7 (Arapahoe)
 - S. Boulder Road
 - FLEX: Ft. Collins - Boulder



**NORTHWEST AREA
MOBILITY STUDY**



FLEX

FORT COLLINS

Capital

- BRT project development program
 - Develop BRT design guidelines
- CU Main – East Campus speed & reliability
- Mobility hubs
- Transit service operations center



Capital

- **Stops, Stations, & Centers**

Facility Type	Facility Location	20-Year Plan Improvements
Transit Center	BRT Corridor	Priority
Park-&-Ride	CTN Corridor	Features
Mobility Hub	Local	Investment Level
BRT Stop		Integration
Bus Stop		

Mobility Hubs



- 1 Enhanced bus stops with real-time information
- 2 Designated bus lanes and priority signals

- 3 Secure bike parking
- 4 Bike parking
- 5 Off-street bike path

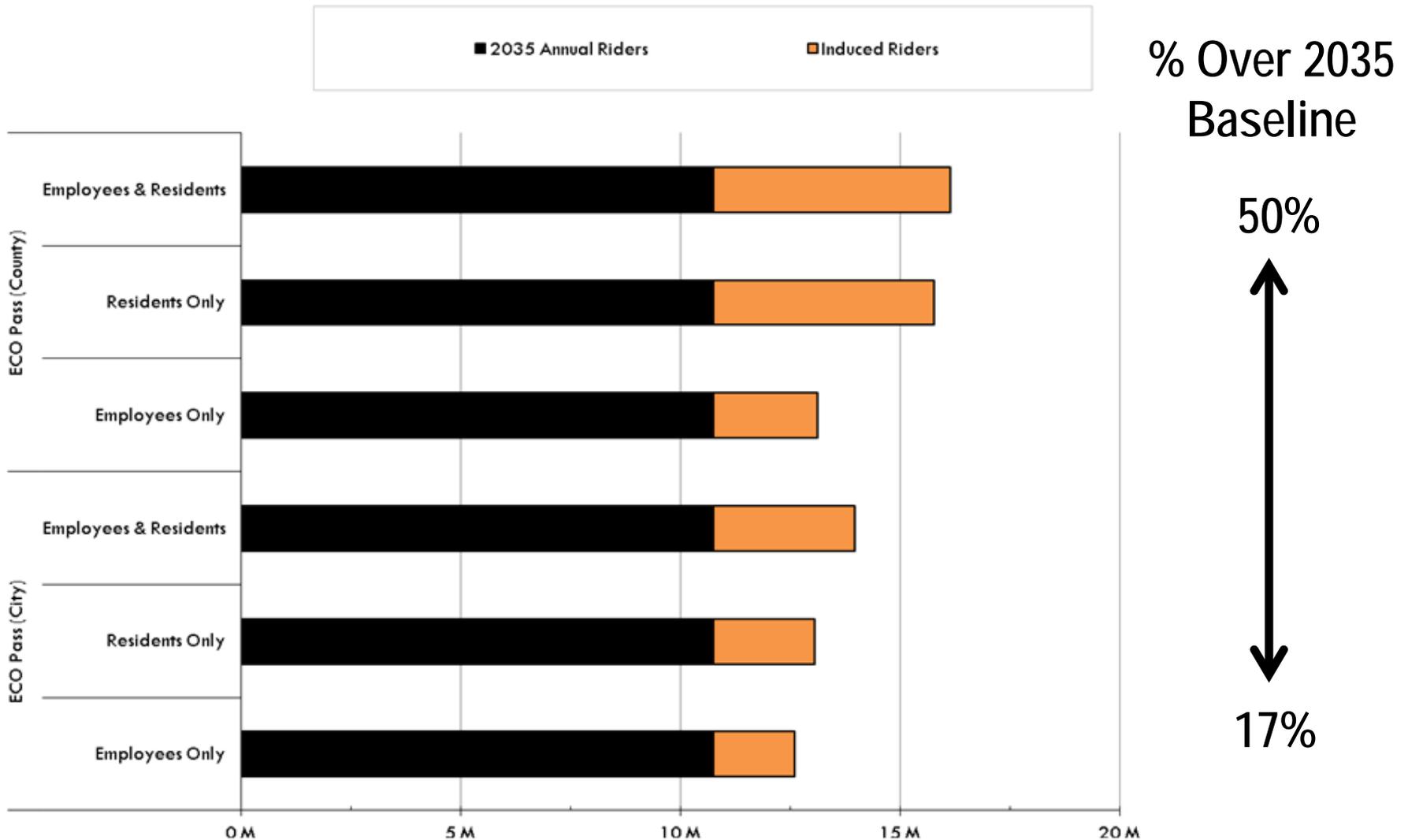
- 6 Car sharing
- 7 Transit and community information kiosk
- 8 Public art

Capital

- **Transit Fleet**
 - Hop fleet replacement
 - Transition transit fleet to “clean,” low-carbon fuel sources

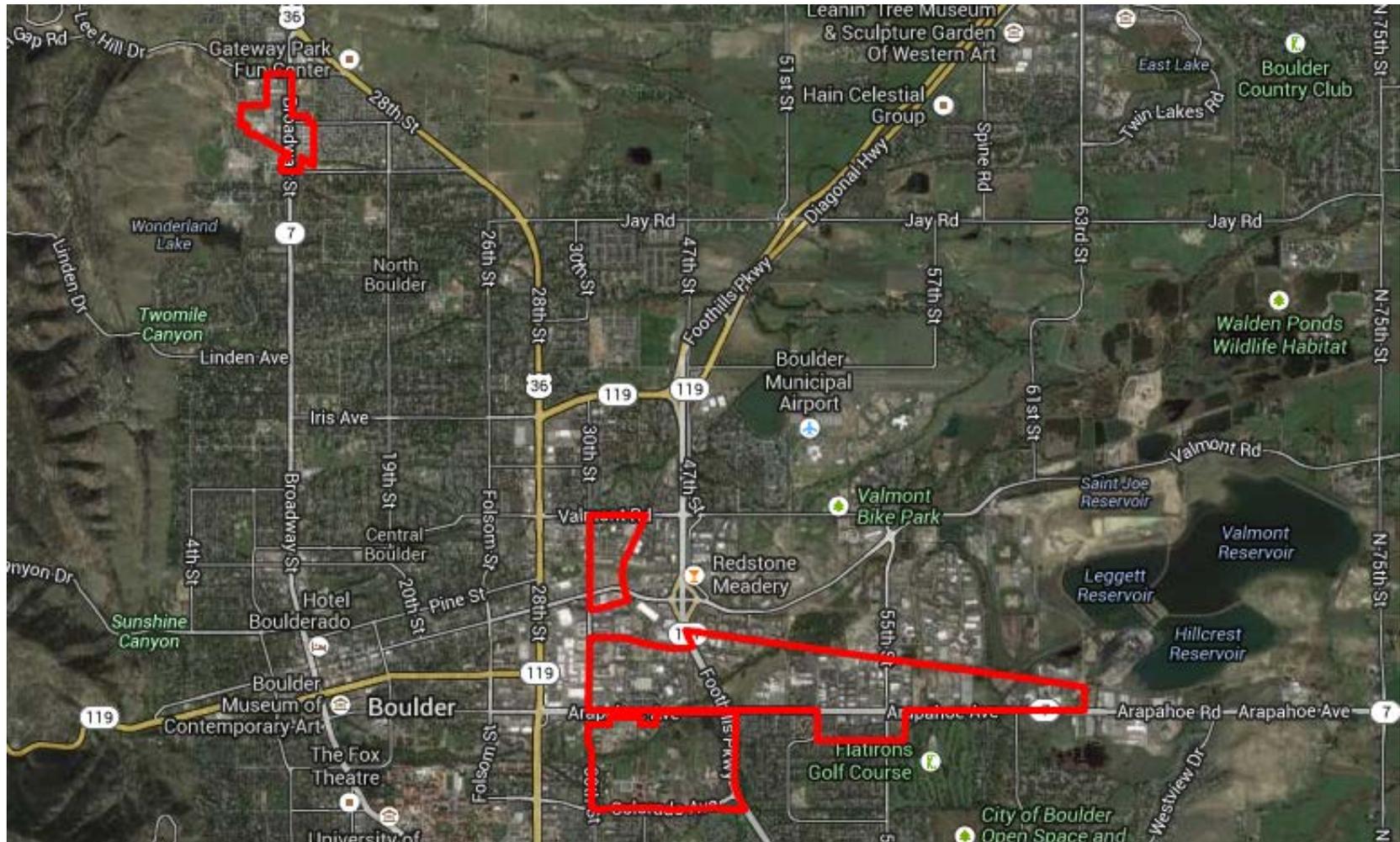


Ridership Increase from Eco Pass (2035)



- Program cost per net new trip = \$1.50 to \$1.75

Access District Sensitivity Analysis



- Results in 6,000 – 7,000 net new daily riders in 2035

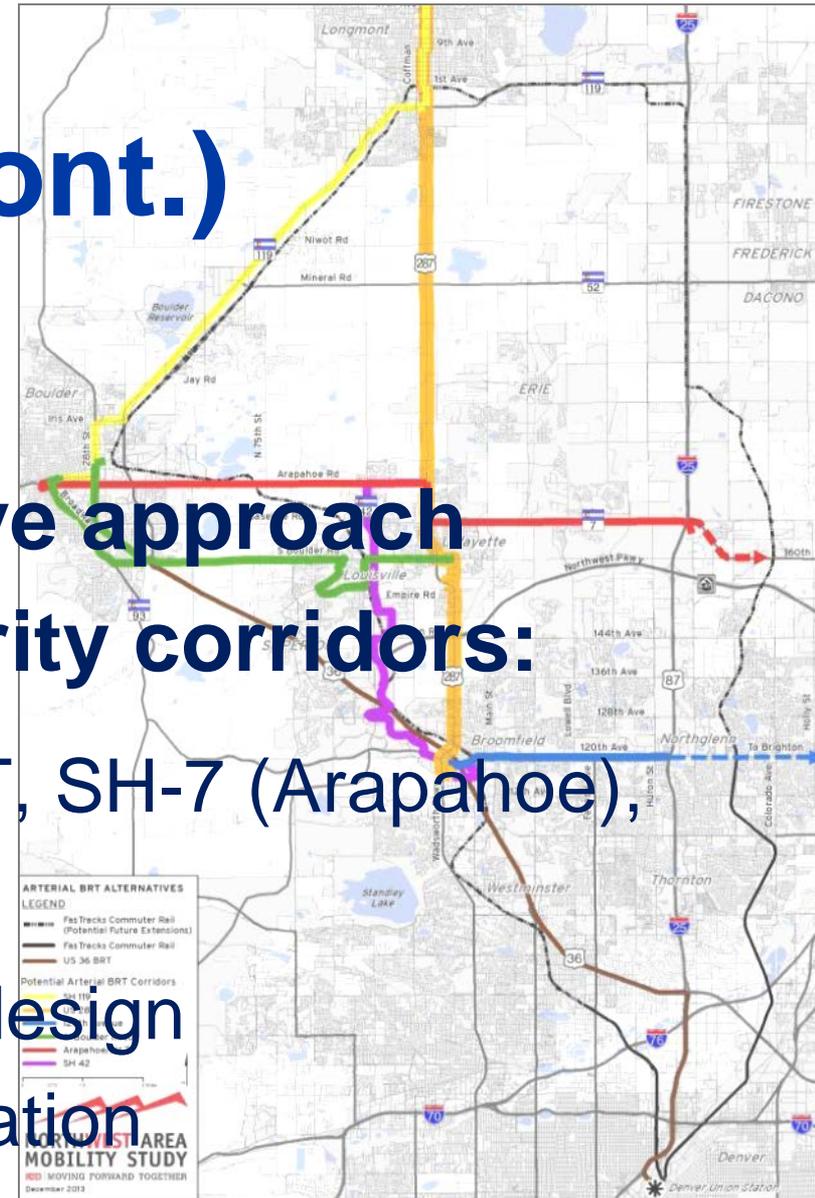
Plan Highlights (cont.)

- **Regional**

- **Continue collaborative approach**

- **Focus on NAMS priority corridors:**

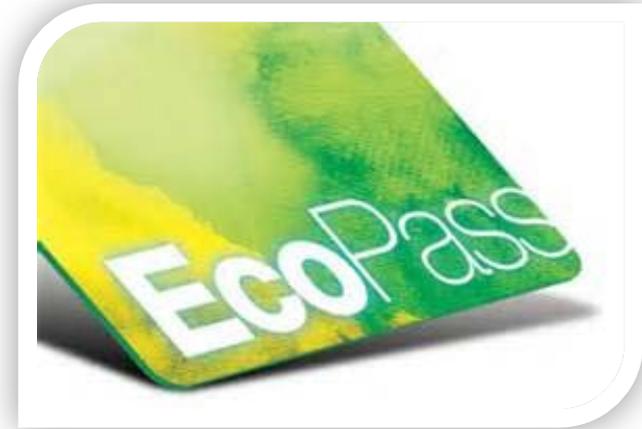
- SH-119 (Diagonal) BRT, SH-7 (Arapahoe), S. Boulder Road
- Corridor planning and design
- Development and operation



Plan Highlights (cont.)

- **TDM**

- **Community Eco Pass**
- **TDM Toolkit**
- **AMPS- looking at Districts and improvements city wide**
 - **TDM Toolkit**
 - **Citywide parking requirements/code**
 - **Pricing**
 - **Enforcement**



Eco Pass Feasibility Study: Key Findings- Benefit Analysis

- **For City of Boulder only:**
 - **Increase transit ridership by 38 percent**
 - **Cost approximately \$15.1m in year 1; \$14.2 existing RTD revenue***
 - **Reduction of 17 million VMT and 6000 mt of GHG annually**

* Medium Elasticity, fully allocated costs

Plan Highlights (cont.)

- **Funding**
 - **Updated Revenues and programs**
 - **Includes new 2013 voter approved funds**
 - Current Funding Investment Program- fiscally constrained
 - Action Investment Program
 - Vision Investment Program

Current Funding Investment Program

- Annual ~\$30 M total; O&M \$25 M
 - Fills O&M hole since 2001
 - Restores transit service
- Complete Streets enhancements-
~\$4.5 M Annually
 - Add local transit/Via funding
 - Adds funding for major reconstruction
 - Enhances programmatic efforts

Action Investment Program

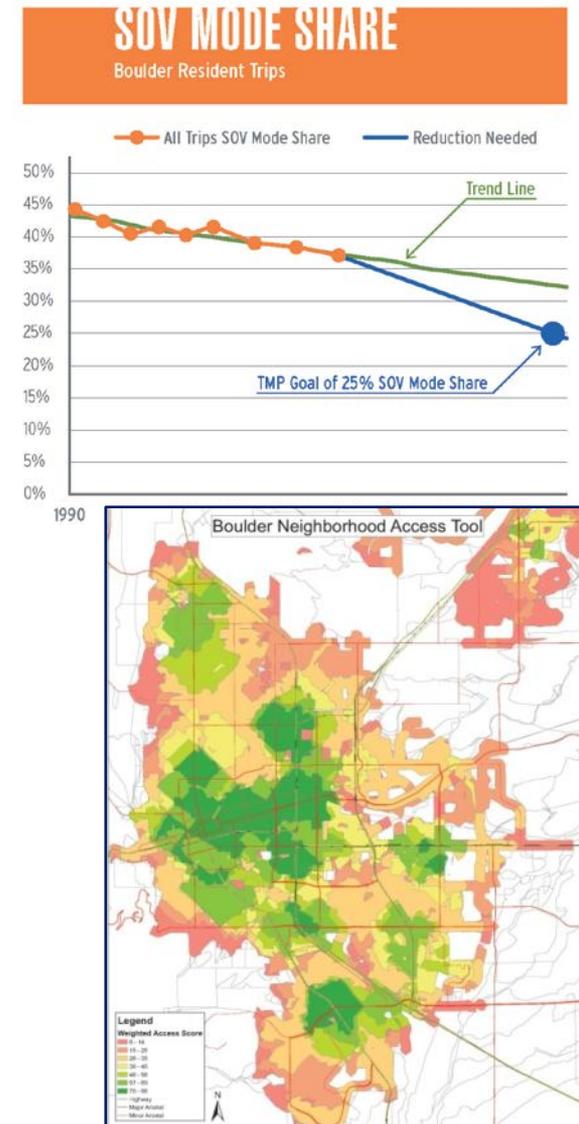
- Needs \$4.25M additional funding per year- \$85M total
- Supports community Eco Pass program
- Transit programs/additions-\$2 M annual
 - Add CTN type service
 - Support for regional BRT efforts on NAMS corridors
- Complete streets investment- \$1.2 M annual increase

Vision Investment Program

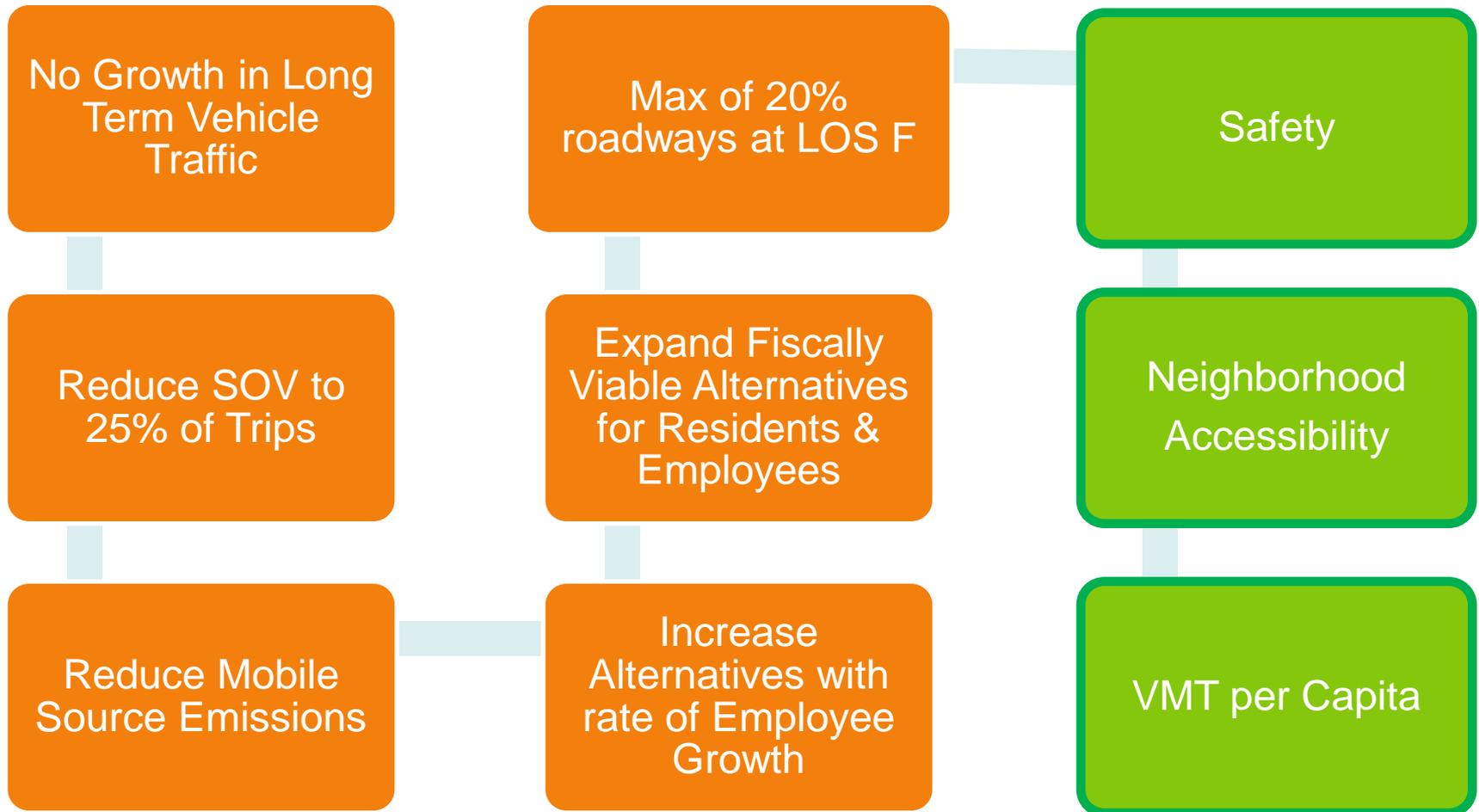
- TMP \$554 M facilities total; \$26.4 annually
- Increases O&M to life cycle replacement
- Completes modal systems- \$420 M total
 - Walk/Bike systems
- Renewed Vision for Transit facilities additional- \$38 M total

Plan Highlights (cont.)

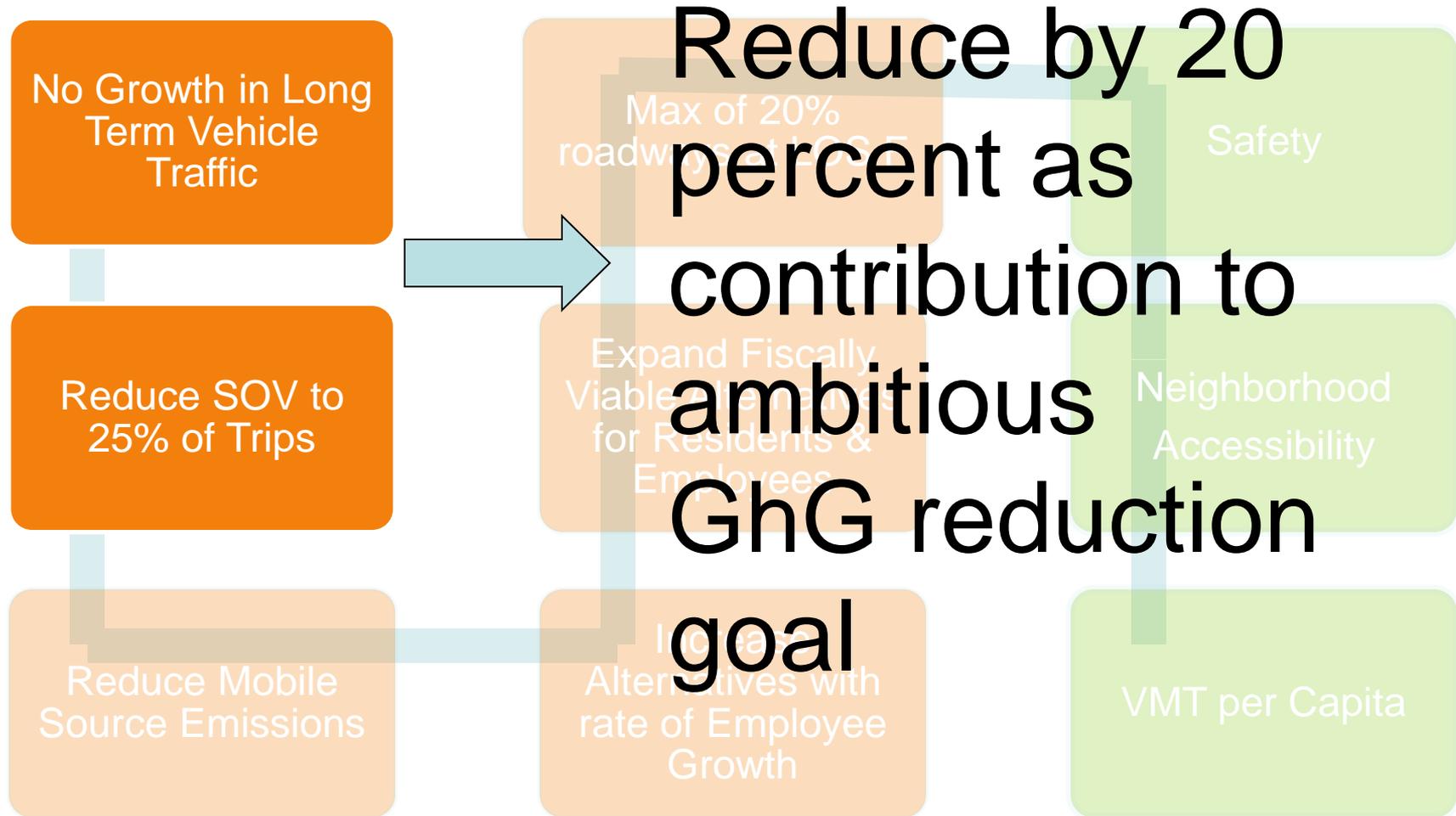
- **Measurable Objectives**
 - Updated and refined the six existing
 - Climate Commitment analysis
 - Three new measures and tools- safety, VMT per capita, neighborhood access



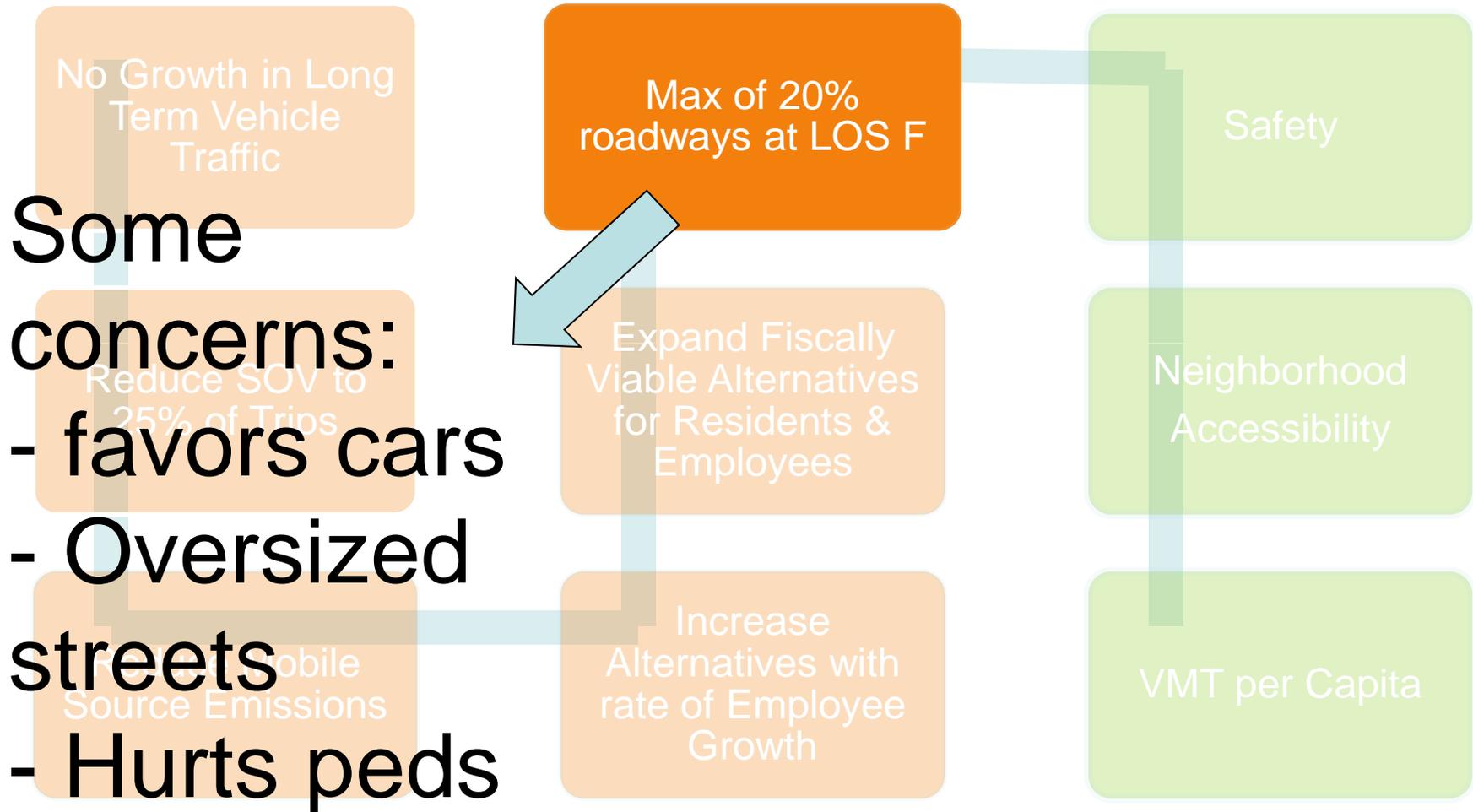
Measurable Objectives



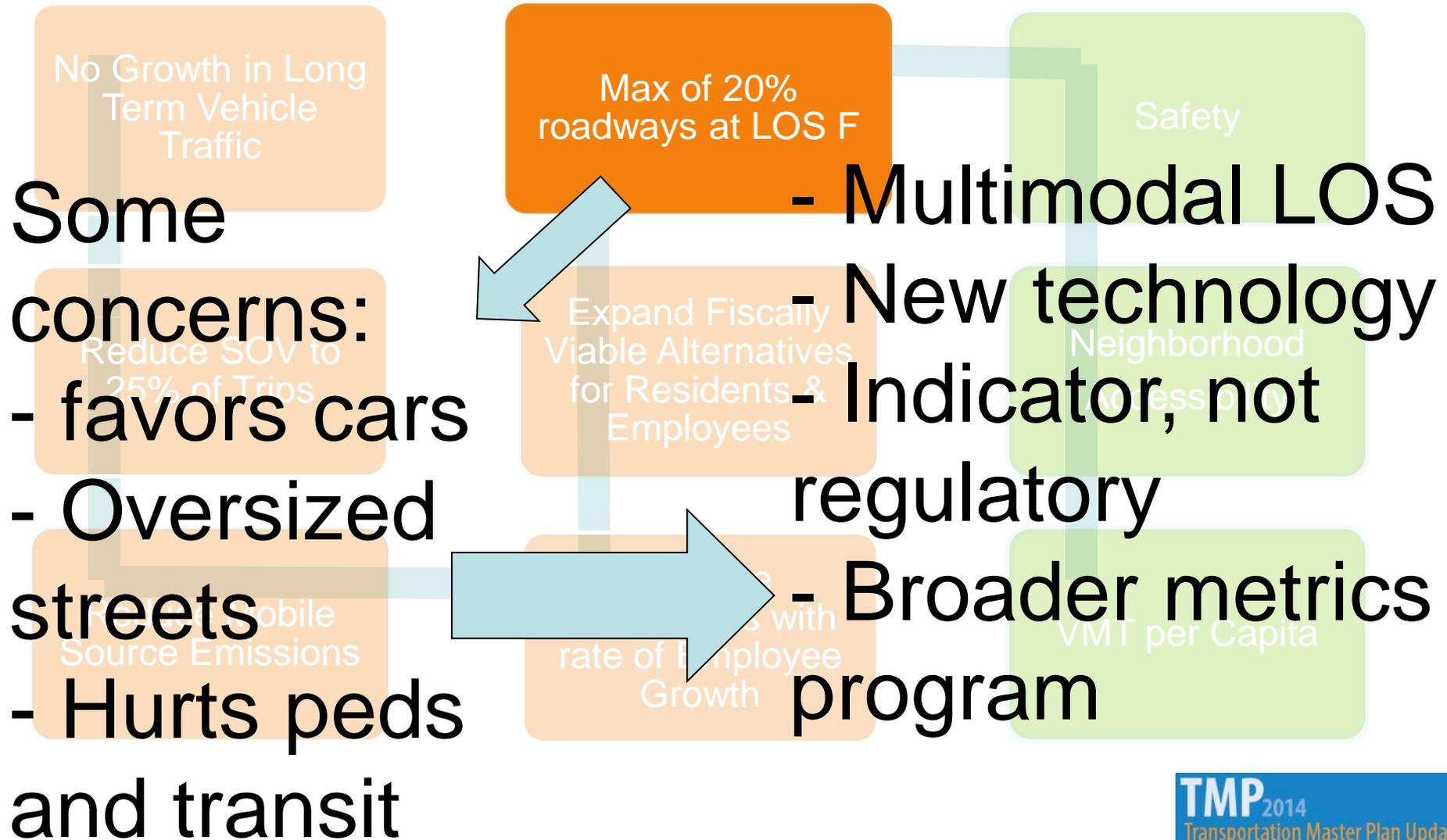
Measurable Objectives



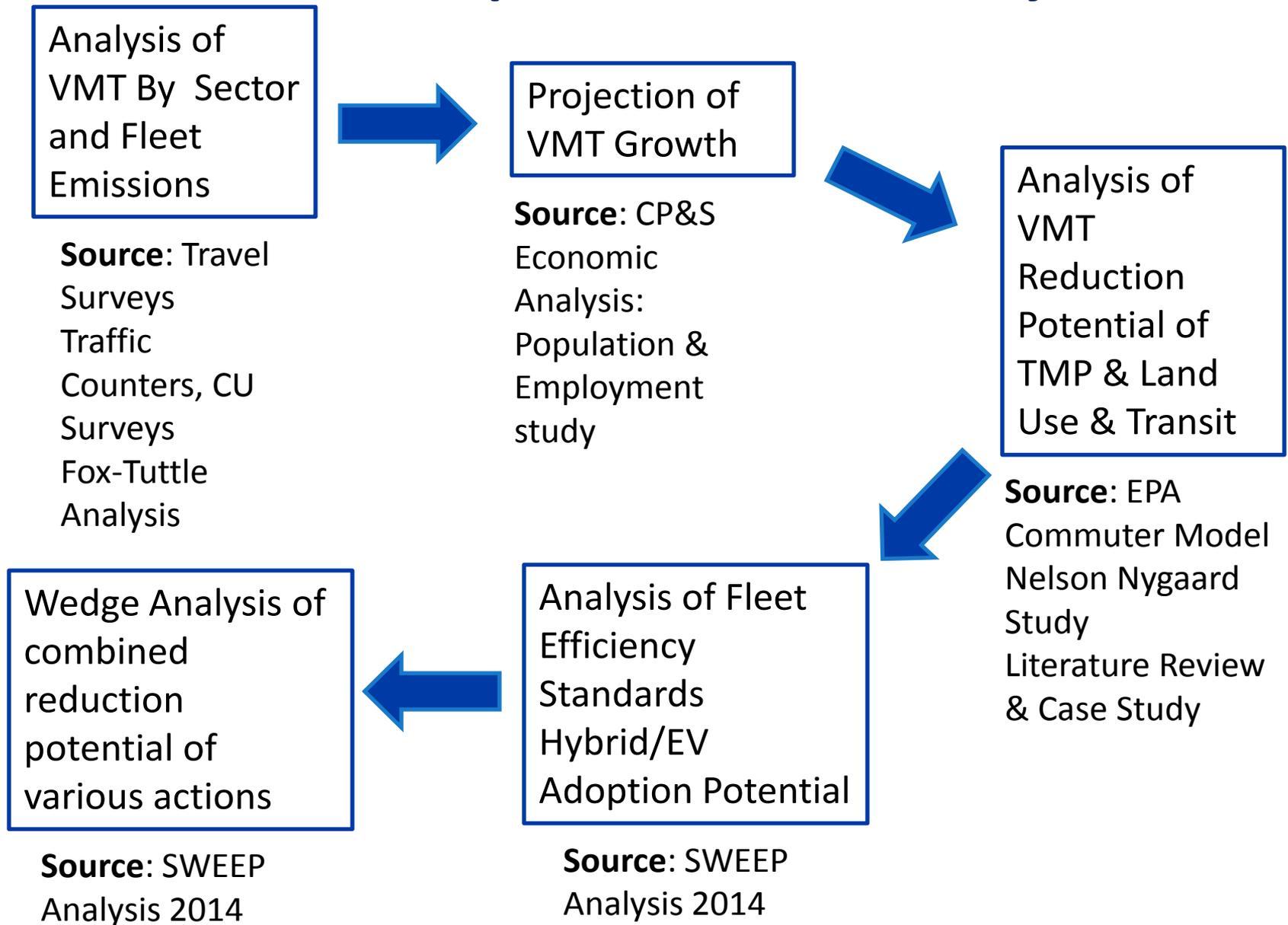
Measurable Objectives



Measurable Objectives



Transportation GHG Analysis Process



Climate Commitment Analysis

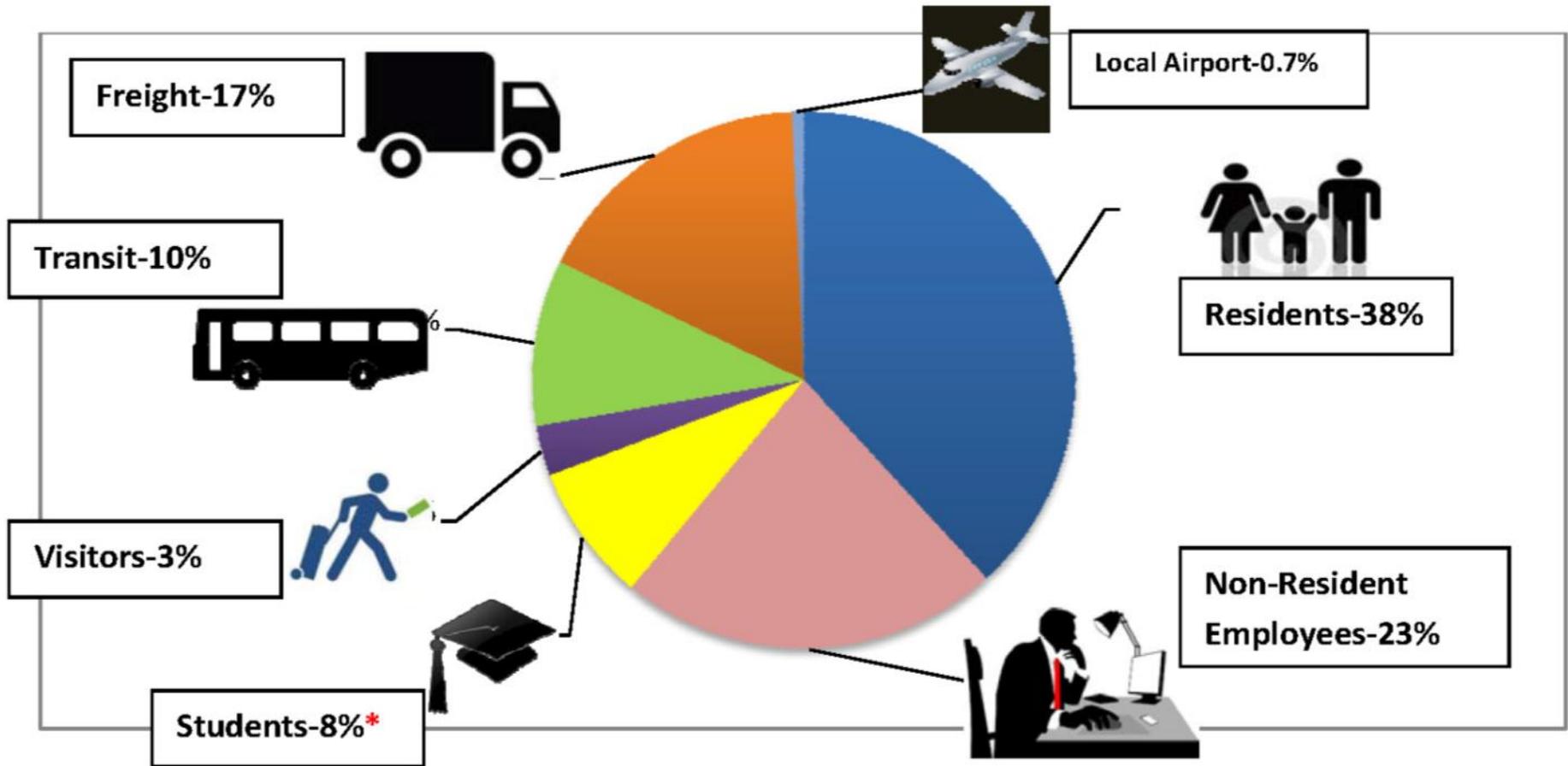
Boulder Transportation Annual VMT and GHG Emissions Sources by Sector

From Carlos Hernandez, Fox-Tuttle Transportation Consultants 2013 Analysis

	<i>Annual VMT</i>	<i>% VMT</i>	<i>Annual GHG (MT)</i>	<i>% GHG</i>
Resident	323,769,600	51%	118,809	38%
Non-Resident Employee	192,192,000	30%	70,526	23%
Student	70,200,000	11%	25,760	8%
Visitor	25,550,000	4%	9,376	3%
Transit	10,435,000	2%	31,110	10%
Freight	18,250,000	3%	52,980	17%
Boulder Personal Aircraft			2,188	0.7%
Annual GHG (Metric Tons)			310,749	100.0%

Climate Commitment Analysis

Boulder Transportation GHG Emissions by Sector *



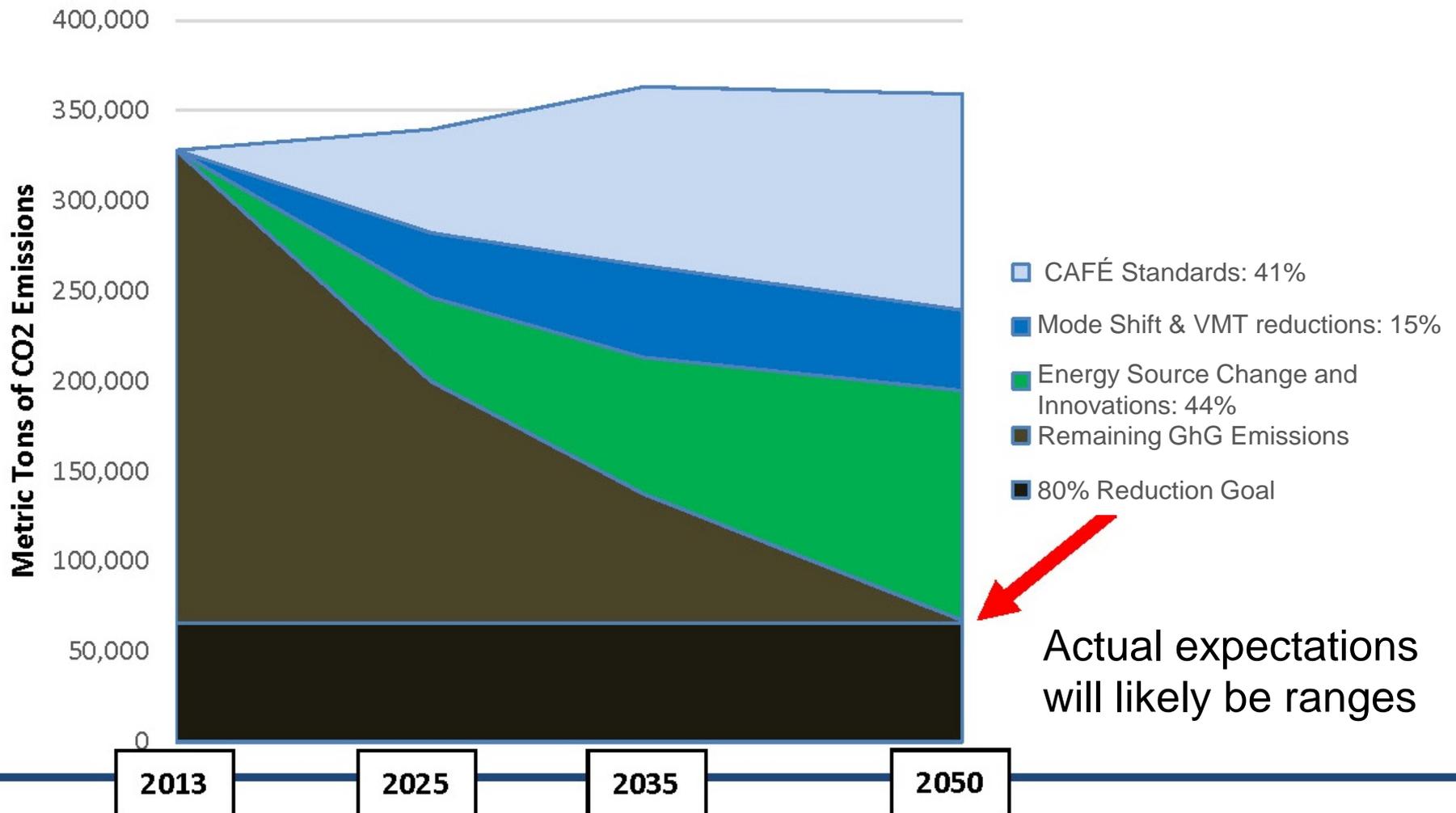
* Refers to students over 18 driving single occupancy vehicles

*Residents- all trips; Non-residents- half of work trip

Climate Commitment Analysis

Projected GHG Reductions by Action Area

From Southwest Energy Efficiency Project 2014 Analysis



Plan Highlights (cont.)

- Action Plans for each Focus Area
 - Immediate
 - Near Term
 - Long Term
- Guides next steps for city and partners
- Allows to track progress over time
- Is the community's plan- partners include Boulder Co., CUB, BVSD, RTD, CDOT, NGOs, residents, etc.



Comments from Boards

- Pleased with document/format/collaboration
- Anxious to get started:
 - Support living lab approach
 - Support integration efforts
 - Recognize co-benefits and risks of not pursuing policies and strategies
- Importance of LU/TDM/Transpo. efforts
- Implement/measure/share progress

TAB Comments- Jessica Yates

- Board hosted the TMP process
- Supports living lab approach, transit expansion, improved integration across LU/Transpo./TDM/GhG reduction
- Complimentary on collaboration and community engagement
- Board sees TMP as living document- will be refined and improved
- Recommends TMP document

Next Steps

- Web enhancement
- Living Lab expansion across all areas
- Corridor studies
 - Envision East Arapahoe as pilot
- Living Plan amendments
 - Modifications from other planning efforts: Envision East Arapahoe, Comprehensive Housing Strategy, AMPS, proposed corridor studies

Next Steps

- Continued refinement of TMP measurable objectives
 - Climate Commitment/GhG reduction
- Enhanced measurement and reporting:
 - Report on Progress
 - Web based dashboard
- Continued partnerships to implement Action Plan