



Central Lane Scenario Planning



Scenario Planning Update

September/October 2014



What is scenario planning?

- Scenario planning involves considering alternative, plausible futures
- In the Central Lane region, we are doing this to determine:
 - If current policies achieve regional goals
 - Alternative policies or strategies that could be considered to achieve goals
 - Likely outcomes of policy changes

Scenario planning goals

- Economic vitality
- Health
- Equity
- Greenhouse gas reduction
- Flexibility for jurisdictions in the region



Where are we in the process?

Fall
2013

Step 1: Understand

- Understand existing policies
- Develop evaluation measures
- Determine baseline for comparison

Winter-Summer
2014

Step 2: Test and learn

- Develop alternative scenarios
- Evaluate and compare

Fall 2014/Winter
2015

Step 3: Refine and select

- Refine scenarios
- Tailor individual choices for each jurisdiction
- Cooperatively select a preferred scenario

Your job: Cooperative selection

- Consider at least one scenario that meets the state's GHG reduction goal
- Consider public input
- Cooperatively select a preferred scenario in 2015
- Report back to the state legislature during 2015 session
- LTD's role is not explicit in state legislation but the Board of Directors will be consulted during the selection process
- Jurisdictions are not required to implement the preferred scenario

Local government partners as defined by HB 2001

Lane County
Board of
Commissioners

Eugene City
Council

Springfield City
Council

Coburg City
Council

Greenhouse gas reduction targets

- State identified targets for each metro area.
- These targets support state goal for greenhouse gas reductions from all sectors.
- Region is not required to meet target.

Per Capita GHG reduction over 2005 levels
(light vehicles)

Metropolitan area	Adopted 2035 target
Portland Metro	20%
Salem-Keizer	17%
Corvallis	21%
Eugene-Springfield	20%
Bend	18%
Rogue Valley	19%

CRO and state target: Related, but different goals

Climate Recovery Ordinance:

- 50% reduction in community-wide fossil fuel use over 2010 levels by 2030.
- Includes fossil fuel use from all sources

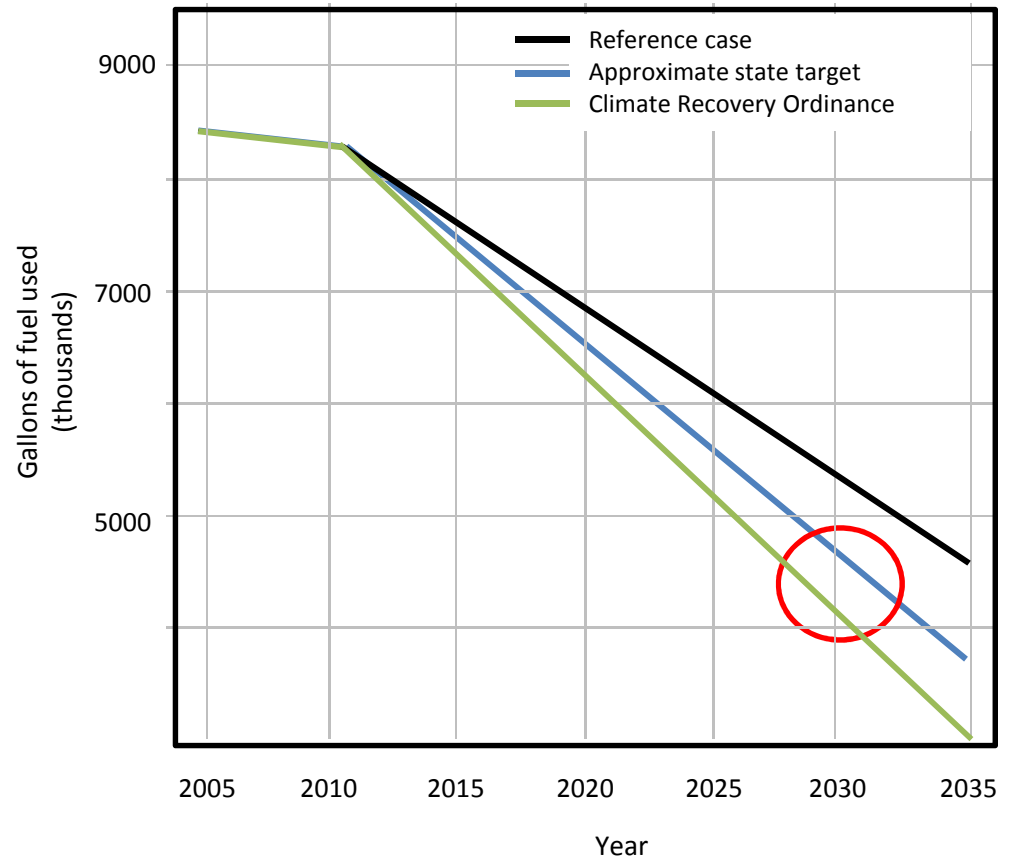
State Target for Central Lane MPO:

- 20% reduction in per capita greenhouse gas emissions over 2005 levels by 2035.
- Only measures emissions from light vehicles
- Does not account for the reductions that accrue from changes to the vehicle fleet or fuels.



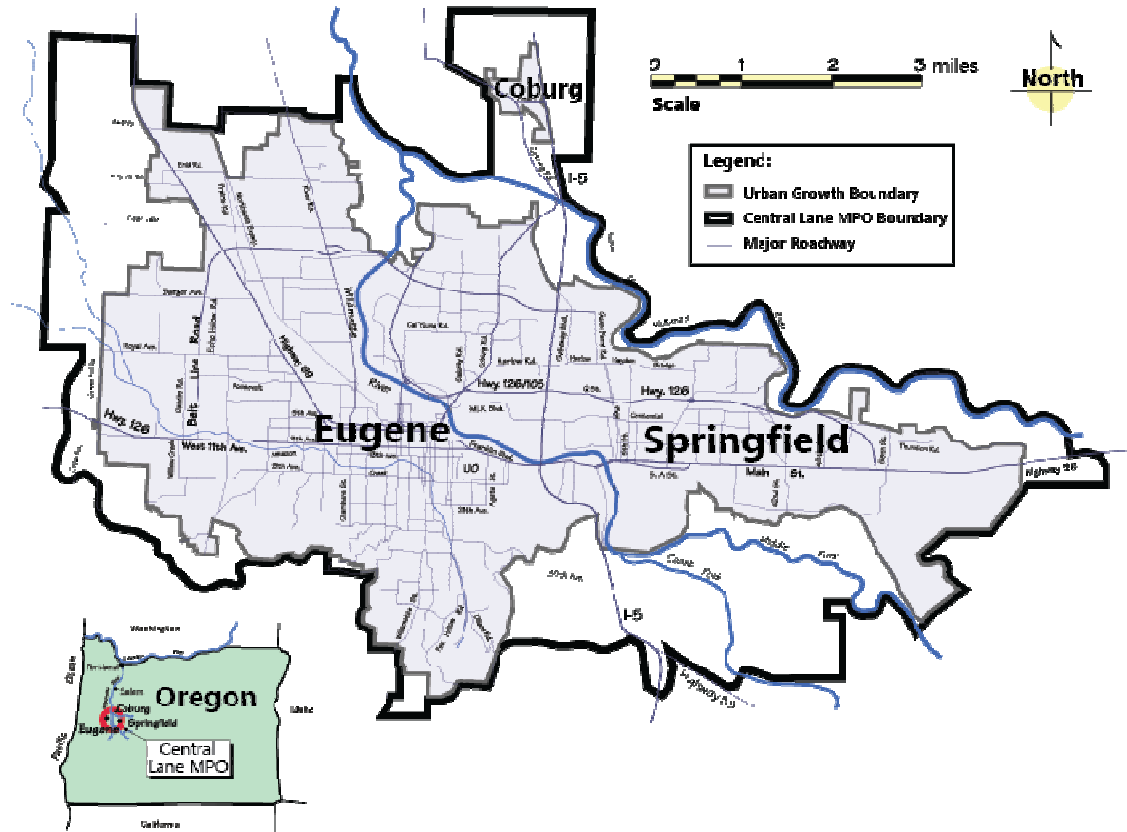
How do the CRO and the state target compare?

- Eugene's ordinance is more aggressive than the state target
- Meeting the state target would achieve 90% of the City's fossil fuel goal
- Eugene will need to do everything in the preferred scenario and then some to meet the CRO



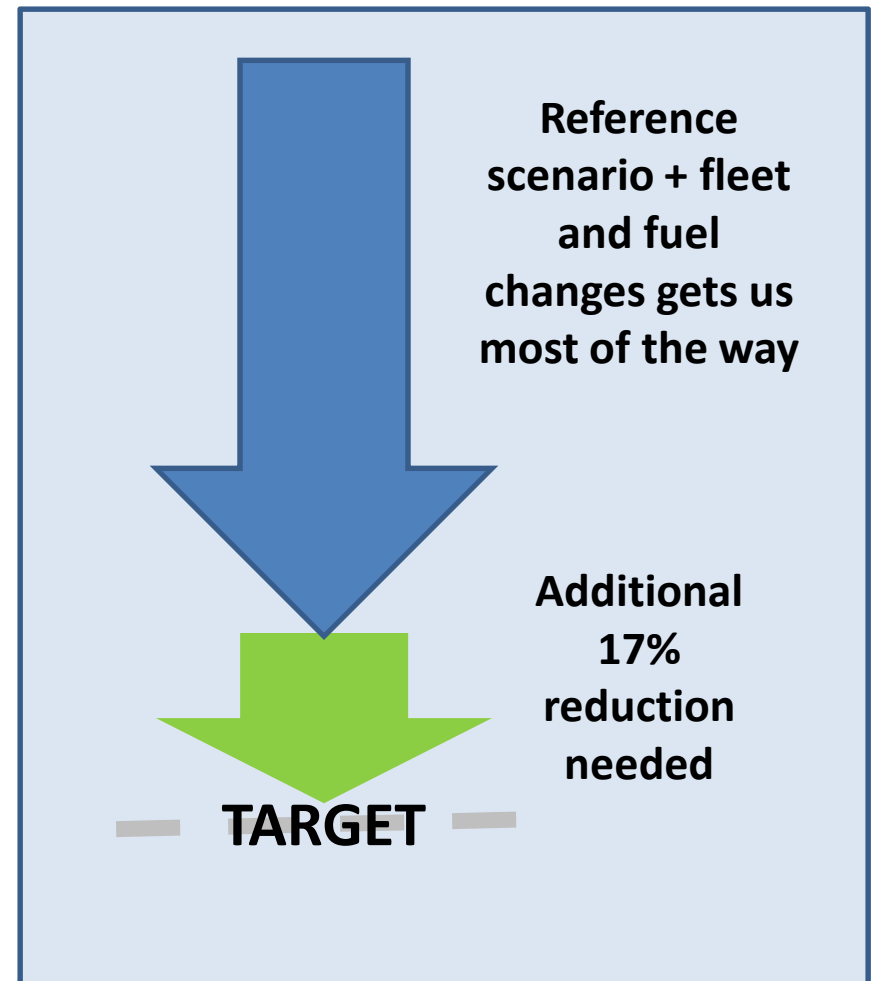
What does 2035 look like?

- Current/emerging plans are implemented
 - Envision Eugene
 - Springfield 2030
 - Coburg's comprehensive plan
- More than 64,000 new people in the region



What happens if we implement existing policy with expected revenues?

- Likely changes in fleet and fuels would result in major emission reductions
- Current local and regional policies result in a 3% reduction (compared to 2005)



What happens if we implement existing policy with expected revenues?

- Fuel consumption decreases by more than 45%
- Local gas tax revenues decrease
- People drive slightly less than today, drive more efficient vehicles; delay increases
- Vehicle operation costs decrease, but ownership and maintenance costs increase
- Biking increases significantly
- Air quality improves

What else can we do?

- Invest more resources consistent with existing policies or implement new policies
- Benefits include MORE:
 - ✓ Household transportation cost savings
 - ✓ Reduction in travel delay and associated costs
 - ✓ Funding for infrastructure preservation
 - ✓ Cleaner air and reduced water consumption
 - ✓ Positive changes in public health and reduced healthcare costs

Scenario development and evaluation



Two new scenarios

Scenario A: Reference scenario

Shows the results of implementing adopted plans or recent policy direction.

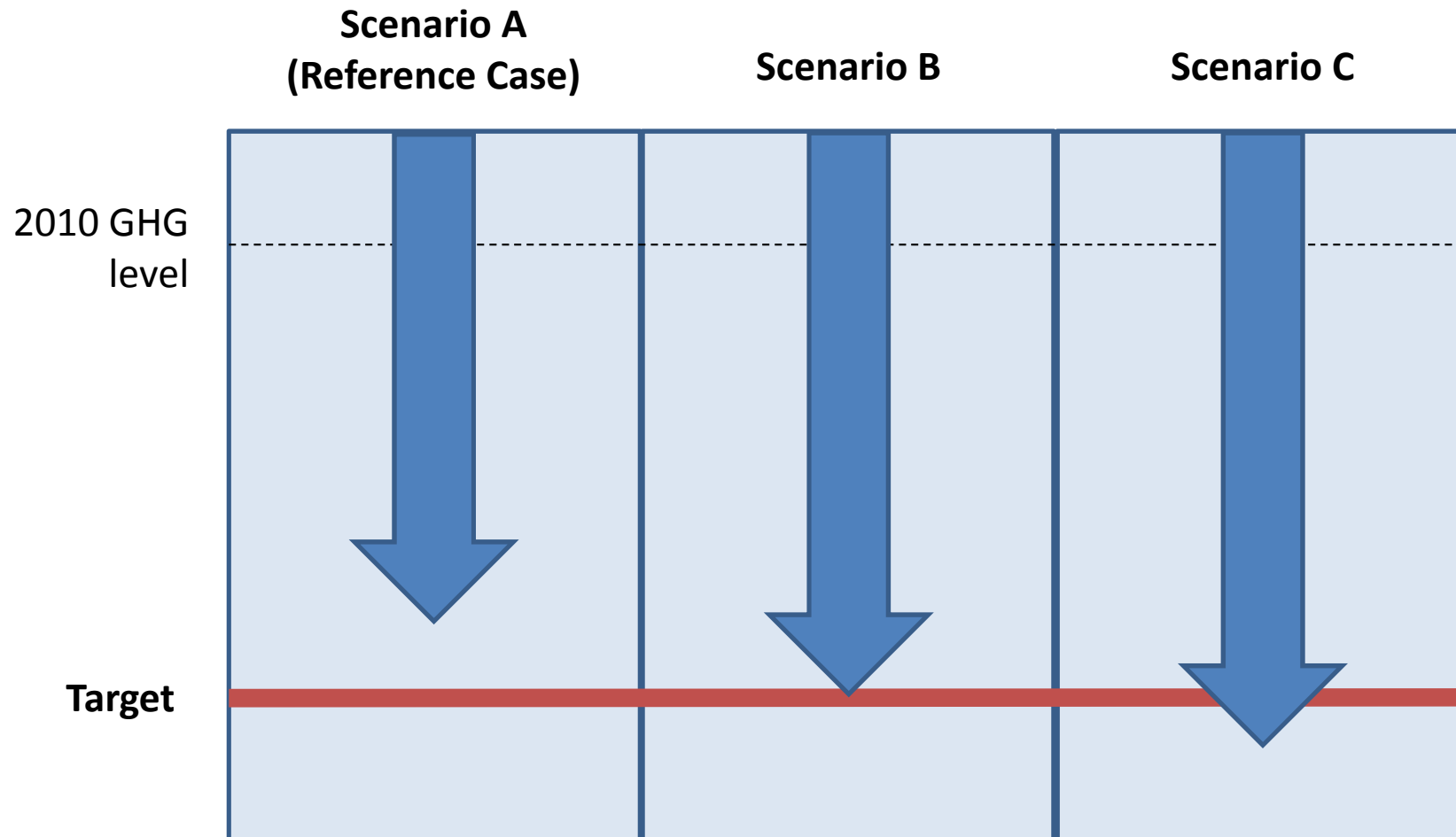
Scenario B: Enhance existing policy

Shows the results of maximizing actions that are consistent with recent policy direction but go beyond what we can expect to achieve without new revenues or other action.

Scenario C: Explore new policies

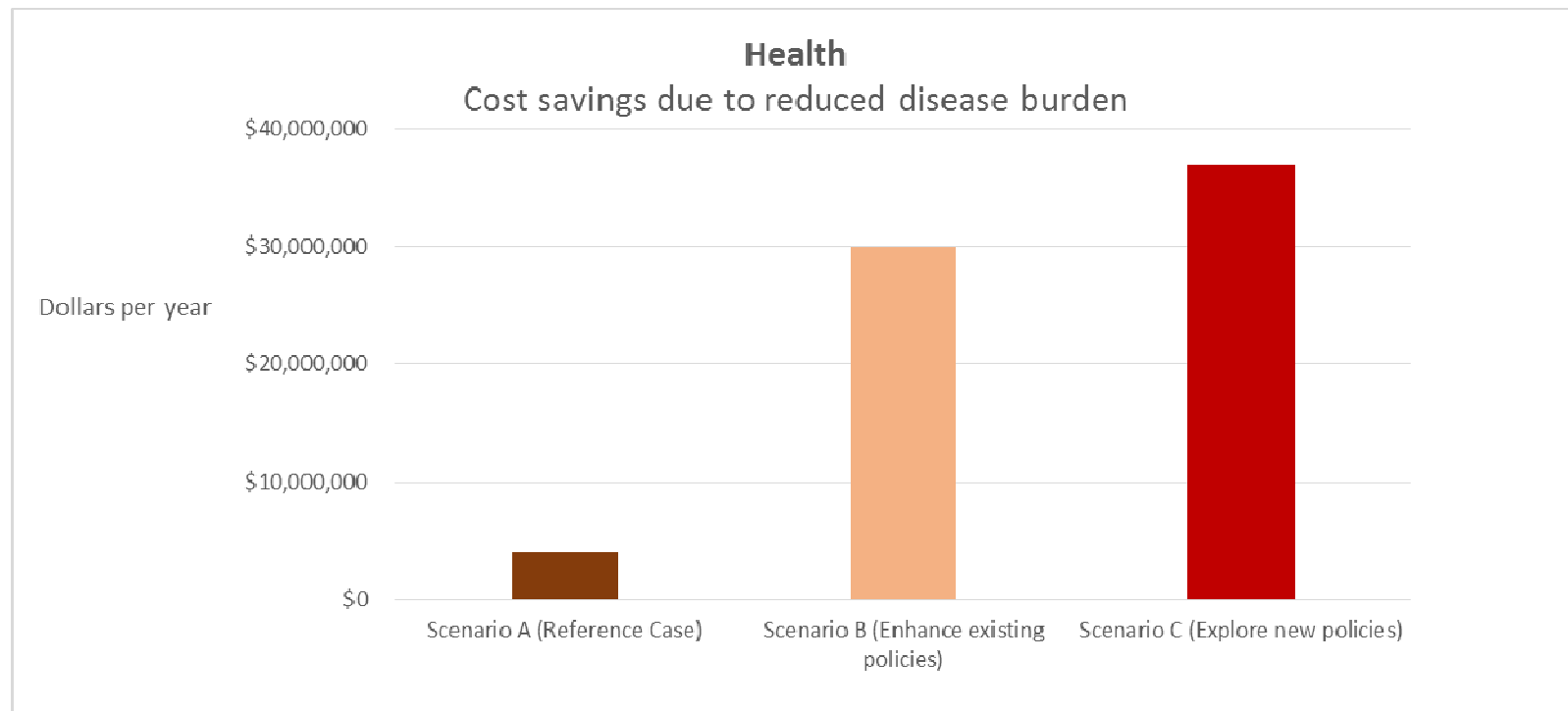
Shows the result of new policies or actions that may build on existing policy direction or explore new actions.

Scenarios B and C meet the state's GHG reduction target for our region



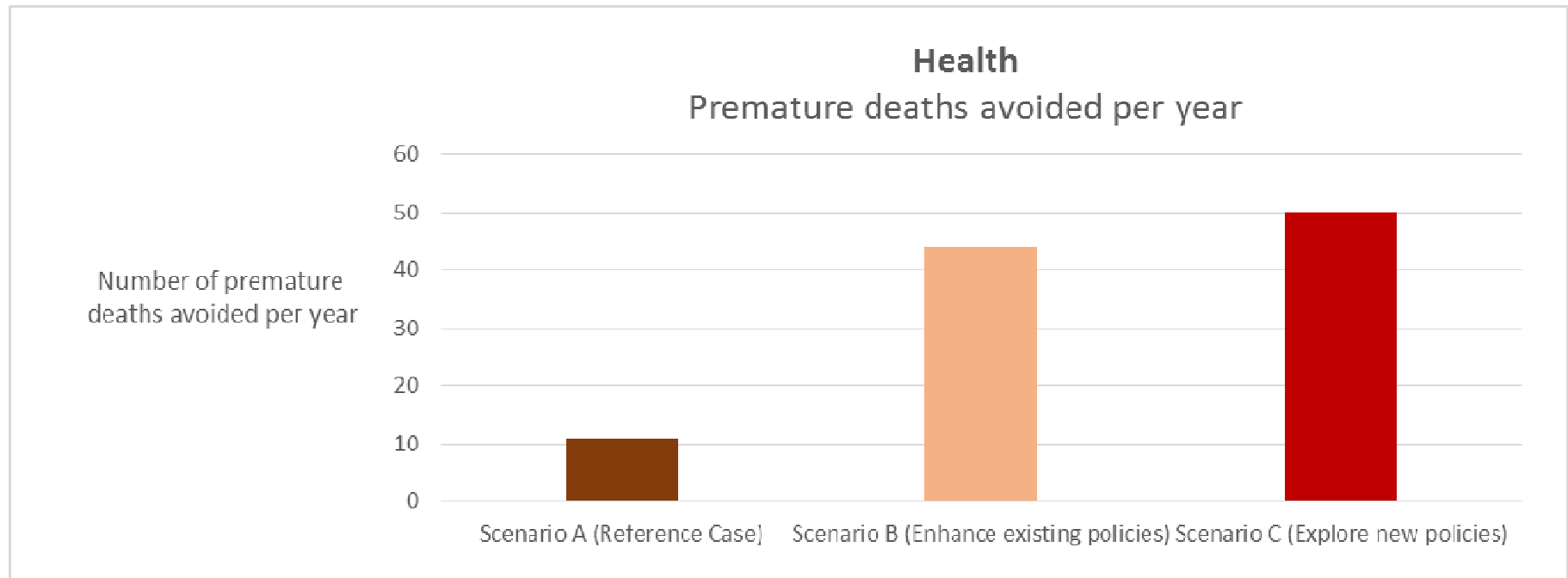
What we learned: public health

- Increases in active transportation result in cost savings
- Savings equate to about \$250 per household each year

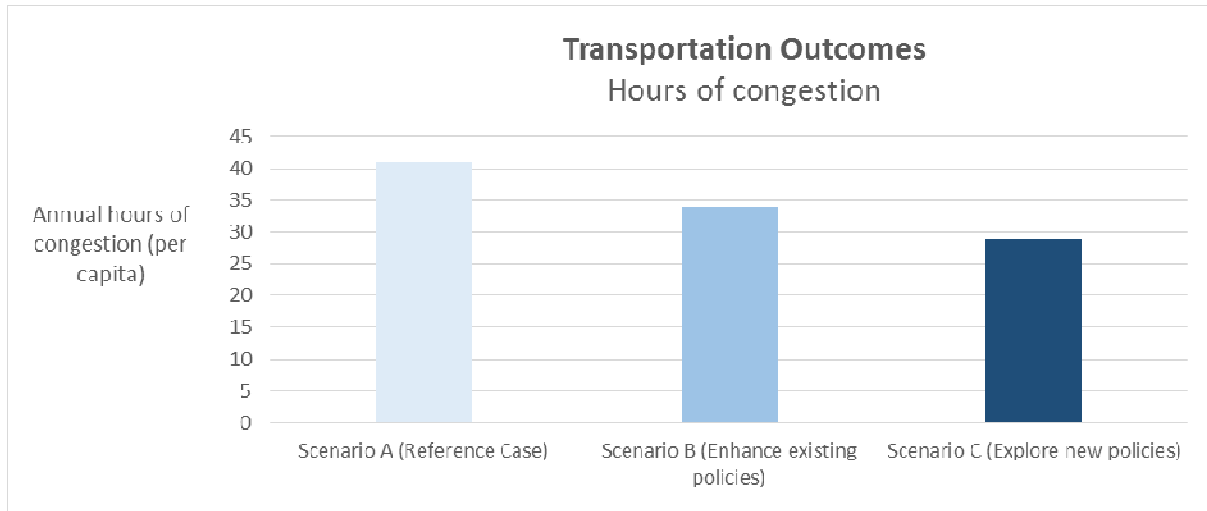


What we learned: public health

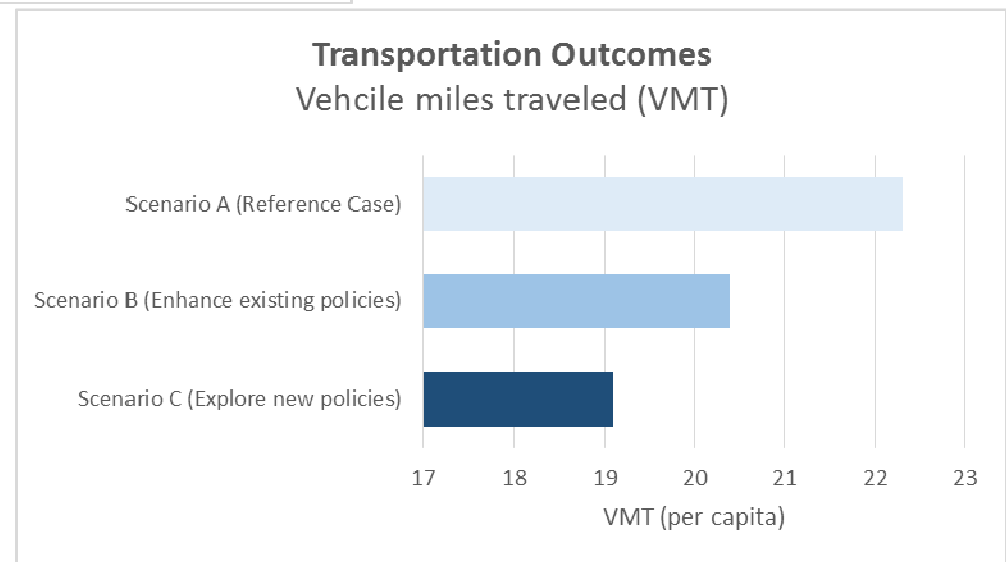
- Reduction in premature deaths due to increases in active transportation



What we learned: transportation

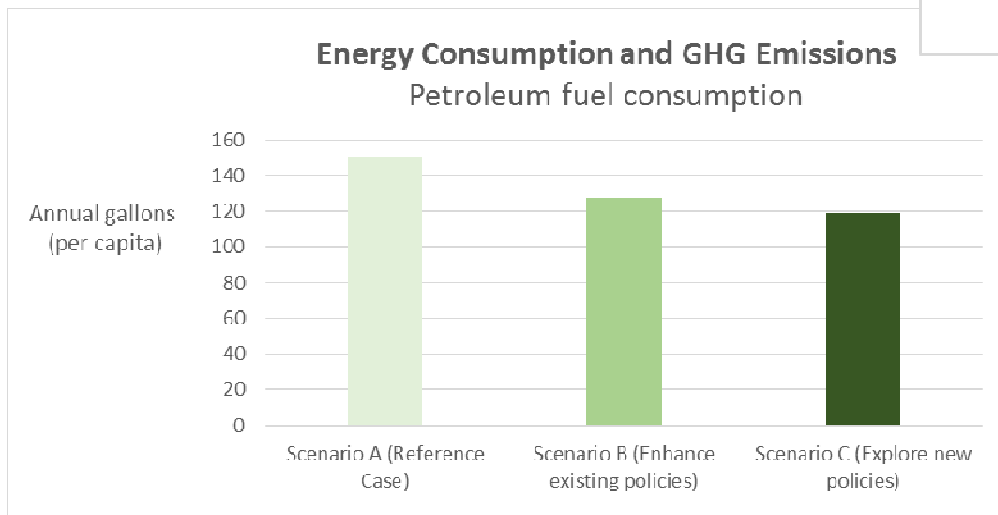
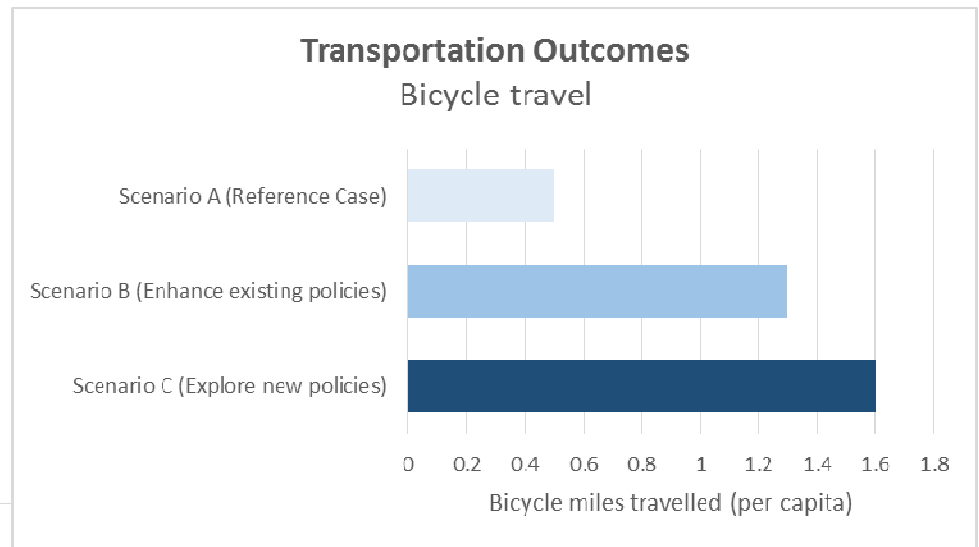


Per capita vehicle miles traveled and delay both decrease



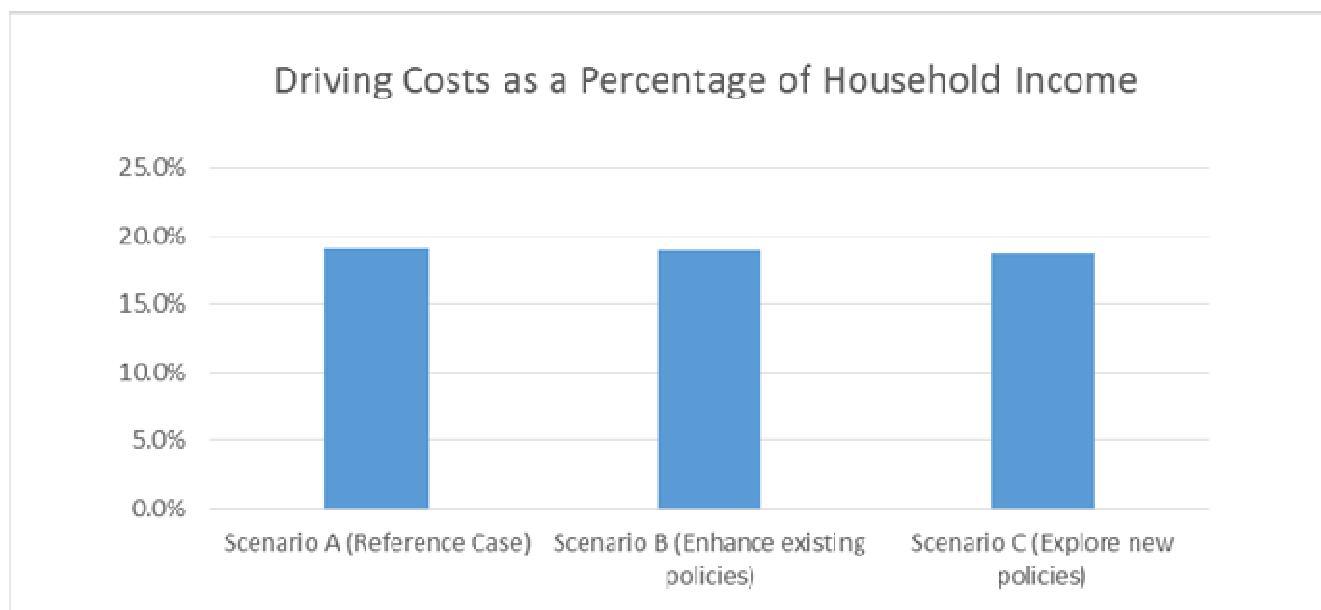
What we learned: biking and fuel consumption

Biking increases



Per capita fuel consumption decreases

What we learned: household costs



Households spend roughly the same proportion of income on driving across all scenarios.

What is working?

- Continue to benefit from existing policies and a relatively compact urban form
- Divert more trips to biking and transit and provide more choices
 - New biking and walking facilities
 - More education and marketing to drive behavior change
- Make improvements to make our road system work more efficiently

What is still unclear?

- Equity – how benefits and impacts are distributed across populations of concern is still unclear
- How much we should invest in different areas like biking, walking, transit and pricing?

Items to consider including in preferred scenario



Today's topic: Consider some items to include in the preferred scenario

Becomes part of preferred scenario

- Roadway optimization
- Fleet and fuels

Existing policy

- Education and marketing programs
- Support statewide implementation of pay-as-you drive insurance

Bigger investment

More policy discussion required to determine existing policy or bigger investment

- Transit
- Biking
- Taxes and fees related to driving
- Parking (work and non-work trips)

Future discussion


Consider: Continue existing policy

- Roads policies
 - Continue to pursue existing policies to make better use of our roadways
- Fleet and fuel assumptions
 - Use the state's assumptions

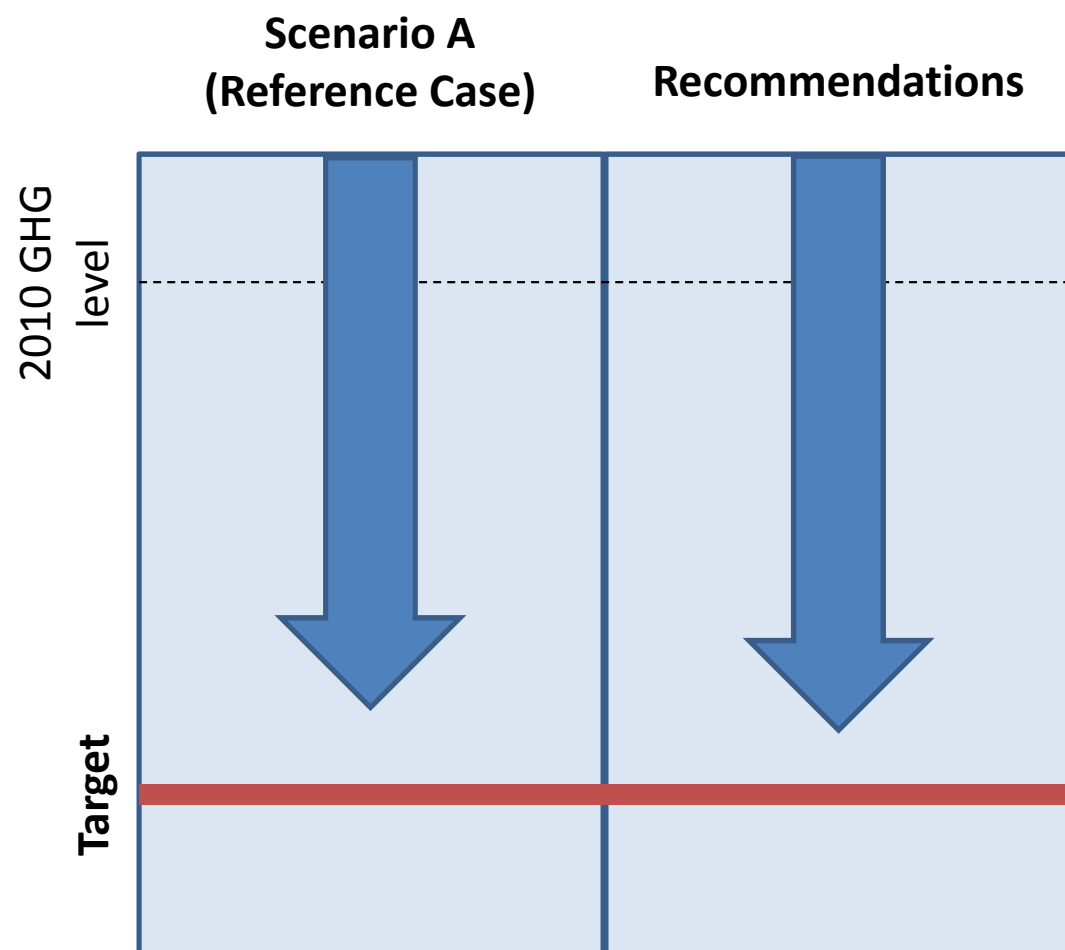
Consider: Increased regional support

- Pay as you drive insurance
 - Assume the state achieves nearly universal adoption
- Education and marketing programs
 - Look at implementation actions that represent a major focus on these voluntary programs

Consider: Future discussion

- Bicycle investment
 - How much investment can we make? What mode shift is realistic in each city?
 - Transit investment
 - How much investment can we make? What mode shift is realistic in each city?
 - How should we manage parking?
 - Is paid parking for **work trips** desirable and achievable in neighborhoods beyond UO, downtown Eugene and downtown Springfield?
 - Is paid parking for **non-work (short duration) trips** desirable above current levels (reference case)?
 - How do we pay for our system?
 - Gas tax or fee based on miles driven?
 - Do we want to pursue other fees like a carbon tax?
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Results of implementing recommendations



- Recommendations combined with the reference case gets close to the target
- Adding a mix of enhanced policies and new policies can achieve the target

Next steps



Evaluate policy choices

- Develop refined scenarios that combine remaining strategies in different ways
 - Test those and consider the implications of different “levels” of intervention
 - Consider high-level costs and benefits of implementation actions
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Select a preferred scenario in 2015

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2013

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