

**CLIMATE
SMART
COMMUNITIES
SCENARIOS PROJECT**

Draft Toolbox of Possible Actions (2015-20)

Recommended Draft

*This document reflects changes recommended in
Exhibit E to Ordinance No. 14-1346B*

November 17, 2014

**MAKING A
GREAT
PLACE**



About Metro

Clean air and clean water do not stop at city limits or county lines. Neither does the need for jobs, a thriving economy, and sustainable transportation and living choices for people and businesses in the region. Voters have asked Metro to help with the challenges and opportunities that affect the 25 cities and three counties in the Portland metropolitan area.

A regional approach simply makes sense when it comes to providing services, operating venues and making decisions about how the region grows. Metro works with communities to support a resilient economy, keep nature close by and respond to a changing climate. Together we're making a great place, now and for generations to come.

Stay in touch with news, stories and things to do.

www.oregonmetro.gov/climatescenarios

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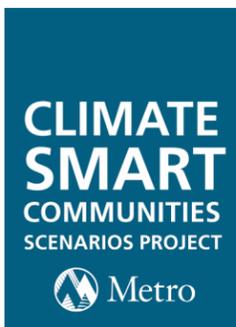
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RECOMMENDED TOOLBOX OF POSSIBLE ACTIONS



DRAFT TOOLBOX OF POSSIBLE ACTIONS (2015-2020)

BACKGROUND | The Climate Smart Communities Scenarios Project responds to a state mandate to [develop and implement a strategy to](#) reduce greenhouse gas emissions from cars and small trucks by 2035. Working together, community, business and elected leaders [are shaping developed](#) a strategy that meets the [goal-mandate and will contribute to while](#)-creating healthy and equitable communities and a strong economy. ~~After considering prior public input and other information, on May 30, 2014, the Metro Policy Advisory Committee (MPAC) and the Joint Policy Advisory Committee on Transportation (JPACT) unanimously recommended a draft approach for testing that relies on policies and investments that have already been identified as local priorities in communities across the region. The strategy relies on implementing Analysis shows the region can meet the 2035 target if we make the investments needed to build the plans and visions that have already been adopted by communities and the region, along with anticipated advancements in cleaner, low carbon fuels and more fuel-efficient vehicles.~~ The ~~draft Climate Smart Strategy strategy~~ does more than just meet the target. It supports many other local, regional and state goals, including clean air and water, [more transportation choices, improved access to jobs and services, reduced delay on the transportation system, and reduced travel and healthcare costs for households and businesses](#) ~~healthy and equitable communities, and a strong regional economy.~~

Building on existing local, regional and statewide activities and priorities, the project partners have developed [an advisory draft](#)-toolbox of actions with meaningful steps that can be taken ~~in the next five years~~ to [implement the Climate Smart Communities Strategy](#). ~~The actions support implementation of adopted local and regional plans and, if taken, will reduce greenhouse gas emissions and minimize the region’s contribution to climate change in ways that support community and economic development goals. The toolbox builds on the research, analysis, community engagement and discussion completed during the past four years and was developed with the recognition that some tools and actions may work in some locations but not in others. It emphasizes the need for many diverse partners to work together to begin implementation of the Climate Smart Communities Strategy and that each partner retains flexibility and discretion in pursuing the strategies most appropriate to local needs and conditions. Inclusion of an action was primarily driven by committee and public feedback. The policies and actions are the result of a four year collaborative process informed by research, analysis, community engagement, and deliberation. They werewill be subject to public review from Sept. 15 to Oct. 30, 2014 before being considered by MPAC, JPACT, and the Metro Council in December 2014.~~

HOW TO USE THE TOOLBOX | ~~The toolbox identifies-is focused on possible near-term (within the next 5 years) actions that the Oregon Legislature, state agencies and commissions, Metro, cities and counties and special districts are encouraged to take to begin implementing the broader policies and strategies identified in the Climate Smart Communities Strategy begin implementation of the Climate Smart Communities Strategy.~~ The near-term actions include a combination of existing actions and new ideas and approaches that will lay the foundation for longer term action. ~~The toolbox provides an advisory menu of possible actions and does not require Metro, local governments, special districts, or state agencies to adopt any particular policy or action, and is intended to allow for flexibility so any action can be tailored to best support local, regional and state plans and visions. The toolbox includes specific action steps that, if taken, will help implement the broader policies and strategies identified in the Regional Framework Plan. It is intended to be a living document, subject to further review and refinement by local governments, ODOT, TriMet and other stakeholders as part of federally-required updates to the Regional Transportation Plan to reflect new information and approaches to reducing greenhouse gas emissions from land use and transportation. The toolbox is a comprehensive menu of policy, program and funding actions that are intended to allow for flexibility so they can be tailored to best support local, regional and state plans and visions.~~

~~The toolbox builds on the research, analysis, community engagement and discussion completed during the past four years and was developed with the recognition that some tools and actions may work in some locations but not in others. It emphasizes the need for many diverse partners to work together to begin implementation of the Climate Smart Communities Strategy and that each partner retains flexibility and discretion in pursuing the strategies most appropriate to local needs and conditions.~~ Local, state and regional partners are encouraged to review the toolbox and identify actions they have already taken and any new actions they are willing to consider or commit to [in the future as we move into 2015](#). Updates to local comprehensive plans and development regulations, transit agency plans, port district plans and regional growth management and transportation plans present continuing opportunities to [consider implementing the actions recommended in locally tailored ways](#). Medium and longer-term actions will be identified during the next [federally-required](#) update to the Regional Transportation Plan (scheduled for 2016-18). ~~The toolbox is a comprehensive menu of more than 200 specific policy, program and funding actions that can be tailored to best support local, regional and state plans and visions that, if implemented, will reduce greenhouse gas emissions in ways that support community and economic development goals.~~

POLICY	TOOLBOX OF POSSIBLE ACTIONS (2015-2020)			
	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
1. Implement the 2040 Growth Concept and local adopted land use and transportation plans	Immediate (2015-16) <input type="checkbox"/> Reauthorize Oregon Brownfield Redevelopment Fund <input type="checkbox"/> Support brownfield redevelopment-related legislative proposals <input checked="" type="checkbox"/> Restore local control of housing policies and programs to ensure local communities have a full range of tools available to meet the housing	Immediate (2015-16) <input type="checkbox"/> Implement policies and investments that align with regional and community visions to focus growth in designated centers, corridors and employment areas <input type="checkbox"/> Support restoring local control of housing policies and programs to ensure communities have a full range of tools available to meet the	Immediate (2015-16) <input type="checkbox"/> Implement policies and investments that align with community visions, focus growth in designated centers, corridors and employment areas <input type="checkbox"/> Support restoring local control of housing policies and programs to ensure communities have a full range of tools available to meet the	Immediate (2015-16) <input type="checkbox"/> Implement policies and investments that align with community visions, focus growth in designated centers, corridors and employment areas <input checked="" type="checkbox"/> Support restoring local control of housing policies and programs to ensure communities have a full range of tools available to meet the housing

RECOMMENDED TOOLBOX OF POSSIBLE ACTIONS

TOOLBOX OF POSSIBLE ACTIONS (2015-2020)

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	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
	<p>needs of all residents to <u>and income levels to</u> and expand opportunities for households of modest means to live closer to work, services and transit</p> <ul style="list-style-type: none"> <input type="checkbox"/> Begin implementation of the Statewide Transportation Strategy Vision and short-term implementation plan to support regional and community visions <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Seek opportunities to leverage local, regional, state and federal funding to achieve local visions and the region's desired outcomes <input type="checkbox"/> Provide increased funding and incentives to local governments, developers and non-profits to encourage brownfield redevelopment and transit-oriented development to help keep urban areas compact 	<p><u>housing needs of all residents and income levels and expand opportunities for households of modest means to live closer to work, services and transit through Legislative agenda, testimony, endorsement letters or similar means</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Support reauthorization of Oregon Brownfield Redevelopment Fund through Legislative agenda, testimony, endorsement letters or similar means <input type="checkbox"/> Facilitate regional brownfield coalition to develop legislative proposals and increase resources available in the region for brownfield redevelopment <input type="checkbox"/> Maintain a compact urban growth boundary <input type="checkbox"/> Review functional plans and amend as needed to implement Climate Smart Strategy <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Seek opportunities to leverage local, regional, state and federal funding to achieve local visions and the region's desired outcomes <input type="checkbox"/> Expand on-going technical assistance and grant funding to local governments, developers and others to <u>advance implementation of local land use plans and</u> incorporate travel information and incentives, transportation system management and operations strategies, parking management approaches and transit-oriented development in local plans and projects <input type="checkbox"/> <u>Convene regional brownfield coalition and strengthen regional brownfields program by providing increased funding and technical assistance to local governments to leverage the investment of private and non-profit developers</u> <input type="checkbox"/> <u>Leverage Metro and the region's public investments to maintain and create affordable housing options in areas served with frequent transit service</u> <input type="checkbox"/> <u>Support increased funding for affordable housing, particularly along corridors with frequent transit service</u> <input type="checkbox"/> <u>Implement the Climate Smart Communities Strategy in the 2018 RTP</u> 	<p><u>housing needs of all residents and income levels and expand opportunities for households of modest means to live closer to work, services and transit through Legislative agenda, testimony, endorsement letters or similar means</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Support reauthorization of Oregon Brownfield Redevelopment Fund through Legislative agenda, testimony, endorsement letters or similar means <input type="checkbox"/> Participate in regional brownfield coalition to develop legislative proposals and increase resources available in the region for brownfield redevelopment <input type="checkbox"/> <u>Develop concept plans for new urban areas in ways that further the region's efforts in achieving greenhouse gas emissions reductions, such as planning for complete communities with walking, biking and transit to reduce or eliminate vehicle trips for daily needs</u> <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Pursue opportunities to locate higher-density residential development near activity centers such as parks and recreational facilities, commercial areas, employment centers, and transit <input type="checkbox"/> Locate new schools, services, shopping, and other health promoting resources and community destinations in activity centers <input type="checkbox"/> Seek opportunities to leverage local, regional, state and federal funding to achieve local visions and the region's desired outcomes <input type="checkbox"/> Develop brownfield redevelopment plans and leverage local funding to seek state and federal funding and create partnerships that leverage the investment of private and non-profit developers 	<p><u>needs of all residents and income levels and expand opportunities for households of modest means to live closer to work, services and transit through Legislative agenda, testimony, endorsement letters or similar means</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Support reauthorization of Oregon Brownfield Redevelopment Fund through Legislative agenda, testimony, endorsement letters or similar means <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Seek opportunities to leverage local, regional, state and federal funding to achieve local visions and the region's desired outcomes <input type="checkbox"/> Share brownfield redevelopment expertise with local governments and expand leadership role in making brownfield sites development ready
<p>2. Make transit more convenient, frequent, accessible and affordable</p>	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Begin update to Oregon Public Transportation Plan <input type="checkbox"/> Increase state funding for transit service <input type="checkbox"/> Maintain existing intercity passenger rail service and develop proposals for improvement of 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Build a diverse coalition that includes <u>Work with</u> elected officials and community and business leaders at local, regional and state levels working together to: <ul style="list-style-type: none"> o Seek and advocate for new, dedicated 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support and/or participate in efforts to build transportation funding coalition <input type="checkbox"/> Participate in development of TriMet Service Enhancement Plans (SEPs): <ul style="list-style-type: none"> o Provide more community to community 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support and/or participate in efforts to build transportation funding coalition <input type="checkbox"/> Expand transit payment options (e.g., electronic e-fare cards) to increase affordability, convenience and flexibility

RECOMMENDED TOOLBOX OF POSSIBLE ACTIONS

TOOLBOX OF POSSIBLE ACTIONS (2015-2020)

POLICY	TOOLBOX OF POSSIBLE ACTIONS (2015-2020)			
	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
	<p>speed, frequency and reliability</p> <ul style="list-style-type: none"> <input type="checkbox"/> Provide technical assistance and funding to help establish local transit service <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Adopt Oregon Public Transportation Plan with funding strategy to implement <input type="checkbox"/> Begin implementation of incremental improvements to intercity passenger rail service <input type="checkbox"/> Make funding for access to transit a priority 	<p>funding mechanism(s)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Seek transit funding from Oregon Legislature <input type="checkbox"/> Consider local funding mechanism(s) for local and regional transit service <input type="checkbox"/> Support state efforts to consider carbon pricing <input type="checkbox"/> Fund reduced fare programs and service improvements for transit dependent communities, such as youth, older adults, people with disabilities and low-income families <p><input type="checkbox"/> Consider local funding mechanism(s) for local and regional transit service</p> <ul style="list-style-type: none"> <input type="checkbox"/> Research and develop best practices that support equitable growth and development near transit without displacement, including strategies that provide for the retention and creation of businesses and affordable housing near transit <input type="checkbox"/> Update Regional High Capacity Transit System Plan <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support reduced fares and service improvements for low-income families and individuals, youth, older adults and people with disabilities through testimony, endorsement letters or similar means <input type="checkbox"/> Make funding for access to transit a priority <p><input type="checkbox"/> Research and develop best practices that support equitable growth and development near transit without displacement, including strategies that provide for the retention and creation of businesses and affordable housing near transit</p> <ul style="list-style-type: none"> <input type="checkbox"/> Implement the Climate Smart Communities Strategy transit investments and actions, including community and regional transit service plans in the <u>Update 2018</u> Regional Transportation Plan <u>by 2018</u> 	<p>transit connections</p> <ul style="list-style-type: none"> <input type="checkbox"/> Identify community-based public and private shuttles that link to regional transit service <input type="checkbox"/> Link service enhancements to areas with transit-supportive development, communities of concern¹, and other locations with high ridership potential <input type="checkbox"/> Consider Use ridership demographics in service planning <ul style="list-style-type: none"> <input type="checkbox"/> Consider local funding mechanism(s) for local and regional transit service <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Make funding for access to transit a priority <input type="checkbox"/> Complete gaps in pedestrian and bicycle access to transit <input type="checkbox"/> Expand partnerships with transit agencies to implement capital improvements in frequent bus corridors (including dedicated bus lanes, stop/shelter improvements, and intersection priority treatments) to increase service performance <input type="checkbox"/> Implement plans and zoning that focus higher density, mixed-use zoning and development near transit <input type="checkbox"/> Partner with transit providers and school districts to seek resources to support youth pass program and expand reduced fare program to low-income families and individuals <input type="checkbox"/> Support reduced fares and service improvements for low-income families and individuals, youth, older adults and people with disabilities through testimony, endorsement letters or similar means <input type="checkbox"/> Convert school bus and transit fleets to electric and/or natural gas buses 	<ul style="list-style-type: none"> <input type="checkbox"/> Seek state funding sources for transit and alternative local funding mechanisms <input type="checkbox"/> Complete development of TriMet Service Enhancement Plans (SEPs): <ul style="list-style-type: none"> <input type="checkbox"/> Provide more community to community transit connections <input type="checkbox"/> Identify community-based public and private shuttles that link to regional transit service <input type="checkbox"/> Link service enhancements to areas with transit-supportive development, communities of concern, and other locations with potential high ridership potential <input type="checkbox"/> Consider Use ridership demographics in service planning <p><input type="checkbox"/> Consider local funding mechanism(s) for local and regional transit service</p> <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Expand partnerships with cities, counties and ODOT to implement capital improvements in frequent bus corridors (including dedicated bus lanes, stop/shelter improvements, and intersection priority treatments) to increase service performance <input type="checkbox"/> Partner with local governments and school districts to seek resources to support youth pass program and expanding reduced fare program to low-income families and individuals <input type="checkbox"/> Expand transit service to serve communities of concern, transit-supportive development and other potential high ridership locations, etc. <input type="checkbox"/> Improve and increase the availability of transit route and schedule information <input type="checkbox"/> Convert school bus and transit fleets to electric and/or natural gas buses <input type="checkbox"/> Expand and sustain youth pass program, including expanding routes and frequency along school corridors <input type="checkbox"/> Support transit partners in seeking federal grants and increased state funding for electric and other low-carbon alternative fuel buses <input type="checkbox"/> Seek increased funding flexibility to allow for greater upfront capital spending on electric and other low-carbon alternative fuel buses if those expenses are offset by operating savings

¹ The 2014 Regional Transportation Plan defines communities of concern as people of color, people with limited English proficiency, people with low-income, older adults, and young people.

RECOMMENDED TOOLBOX OF POSSIBLE ACTIONS

TOOLBOX OF POSSIBLE ACTIONS (2015-2020)

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	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
<p>3. Make biking and walking safe and convenient</p>	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Adopt Oregon Bicycle and Pedestrian Plan with funding strategy <input type="checkbox"/> Adopt a Vision Zero strategy for eliminating traffic fatalities <input type="checkbox"/> Seek and advocate for new, dedicated funding mechanism(s) for active transportation projects <input type="checkbox"/> Advocate for use of Connect Oregon funding for active transportation projects <input type="checkbox"/> Review driver's education training materials and certification programs and make changes to increase awareness of bicycle and pedestrian safety <input type="checkbox"/> Complete Region 1 Active Transportation Needs inventory <input type="checkbox"/> Maintain commitment to funding Safe Routes to School programs statewide <input type="checkbox"/> Fund Safe Routes to Transit programs <input type="checkbox"/> Adopt a complete streets policy <input type="checkbox"/> Partner with local governments to conduct site-specific evaluations from priority locations identified in the ODOT Pedestrian and Bicycle Safety Implementation Plan <input type="checkbox"/> Improve bicycle and pedestrian crash data collection <input type="checkbox"/> Support local and regional health impact assessments <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Provide technical assistance and expand grant funding to support development and adoption of complete streets policies and designs <input checked="" type="checkbox"/> Expand existing funding for active transportation investments <input type="checkbox"/> Simplify and clarify policy on e-bike use of bike lanes and other infrastructure 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Adopt a Vision Zero strategy for eliminating traffic fatalities <input type="checkbox"/> Fund construction of active transportation projects as called for in air quality transportation control measures <input type="checkbox"/> Advocate for use of Connect Oregon funding for active transportation projects <input type="checkbox"/> Build a diverse coalition that includes elected officials and community and business leaders at local, regional and state levels working together to: <ul style="list-style-type: none"> o Build local and state commitment to implement Active Transportation Plan, and Safe Routes to Schools and Safe Routes to Transit programs o Seek and advocate for new, dedicated funding mechanism(s) o Advocate to maintain eligibility in federal formula programs (i.e., NHPP, STP, CMAQ) and discretionary programs (New Starts, Small Starts, TIFIA, TIGER) <input type="checkbox"/> Seek opportunities to implement Regional Transportation Safety Plan recommendations in planning, project development and development review activities <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Provide technical assistance and planning grants to support development and adoption of complete streets policies <input type="checkbox"/> Provide technical assistance and funding to support complete street and designs in local planning and project development activities <input type="checkbox"/> Review the regional transportation functional plan and make amendments needed to implement the Regional Active Transportation Plan <input type="checkbox"/> Update and fully implement the Regional Transportation Safety Plan <input type="checkbox"/> Update best practices in street design and complete streets, including: <ul style="list-style-type: none"> o develop a complete streets checklist o provide design guidance to minimize air pollution exposure for bicyclists and pedestrians o use of green street designs that include tree plantings to support carbon sequestration 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Continue implementing adopted transportation system plans <input type="checkbox"/> Adopt a Vision Zero strategy for eliminating traffic fatalities <input type="checkbox"/> Support and/or participate in efforts to build transportation funding coalition <input type="checkbox"/> Advocate for use of Connect Oregon funding for active transportation projects <input type="checkbox"/> Leverage local funding with development for active transportation projects <input type="checkbox"/> Seek opportunities to coordinate local investments with investments being made by special districts, park providers and other transportation providers <input type="checkbox"/> Seek and advocate for new, dedicated funding mechanism(s) <input checked="" type="checkbox"/> Seek opportunities to implement Regional Transportation Safety Plan recommendations in planning, project development and development review activities <input type="checkbox"/> Review community inventory of sidewalk and bike lane gaps and deficiencies to help prioritize where limited funding could best be directed to encourage multi-modal movement <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Develop and maintain a city/county-wide active transportation network of sidewalks, on- and off-street bikeways, and trails to provide connections between neighborhoods, schools, civic center/facilities, recreational facilities, transit centers, bus stops, employment areas and major activity centers <input type="checkbox"/> Build infrastructure and urban design elements that facilitate and support bicycling and walking (e.g., completing gaps, crosswalks and other crossing treatments, wayfinding signs, bicycle parking, bicycle sharing programs, lighting, separated facilities) <input type="checkbox"/> Invest to equitably complete active transportation network gaps in centers and along streets that provide access to transit stops, schools and other community destinations <input type="checkbox"/> Link active transportation investments to providing transit and travel information and incentives <input type="checkbox"/> Partner with ODOT to conduct site-specific 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Adopt a Vision Zero strategy for eliminating traffic fatalities <input type="checkbox"/> Support and/or participate in efforts to build transportation funding coalition <input type="checkbox"/> Advocate for use of Connect Oregon funding for active transportation projects <input type="checkbox"/> Complete Port of Portland 2014 Active Transportation Plan for Portland International Airport <input type="checkbox"/> Prepare a TriMet Bicycle Plan <p>Near-term (2017-20)</p> <p>Invest in trails that increase equitable access to transit, services and community destinations</p>

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	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
		<ul style="list-style-type: none"> ○ identify new pavement and hard surface materials proven to help reduce infrastructure-related heat gain □ Update the Regional Active Transportation Plan needs assessment in the 2018 RTP □ Implement the Climate Smart Communities Strategy active transportation investments and actions in the 2018 RTP □ Build and monitor local and state commitment to implement the Active Transportation Plan and programs for safe routes to schools and transit □ Clarify that e-bikes are part of the region’s active transportation strategy □ Partner with Portland State University to develop a pilot project to test the efficacy of e-bikes in attracting new riders 	<ul style="list-style-type: none"> evaluations from priority locations identified in the ODOT Pedestrian and Bicycle Safety Implementation Plan □ Expand Safe Routes to Schools programs to include high schools and Safe Routes to Transit □ Adopt “complete streets” policies and designs to support all users □ Establish local funding pool to leverage state and federal funds □ Conduct needs assessments for schools and access to transit during updates to TSPs and other plans 	
<p>4. Make streets and highways safe, reliable and connected</p>	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> □ Maintain existing highway network to improve traffic flow □ Increase state gas tax (indexed to inflation and fuel efficiency) □ Update the Oregon Transportation Safety Action Plan □ Review driver’s education training materials and certification programs and make changes to increase awareness of safety for all system users □ Adopt a Vision Zero strategy for eliminating traffic fatalities <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> □ Work with Metro and local governments to consider alternative performance measures □ Integrate multi-modal designs in road improvement and maintenance projects to support all users □ Pilot new pavement and hard surface materials proven to help reduce infrastructure-related heat gain □ Use green street designs that include tree plantings to support carbon sequestration 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> □ Build a diverse coalition that includes elected officials and community and business leaders at local, regional and state levels working together to: <ul style="list-style-type: none"> ○ Ensure adequate funding of local maintenance and support city and county efforts to fund maintenance and preservation needs locally ○ Support state and federal efforts to increase gas tax (indexed to inflation and fuel efficiency) ○ Support state and federal efforts to implement mileage-based road usage charge program □ Seek opportunities to implement Regional Transportation Safety Plan recommendations in planning, project development and development review activities <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> □ Implement the Climate Smart Communities Strategy streets and highways investments and actions in the 2018 RTP □ Work with ODOT and local governments to consider alternative performance measures □ Provide technical assistance and grant funding to support integrated transportation system management operations strategies in local plans, projects and project development activities □ Update and fully implement Regional Transportation Safety Plan 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> □ Continue implementing adopted transportation system plans □ Maintain existing street network to improve traffic flow □ Support and/or participate in efforts to build transportation funding coalition □ Seek opportunities to implement Regional Transportation Safety Plan recommendations in planning, project development and development review activities <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> □ Work with ODOT and Metro to consider alternative performance measures □ Support railroad grade separation projects in corridors to allow for longer trains and less delay/disruption to other users of the system □ Invest in making new and existing streets complete and connected to support all users □ Integrate multi-modal designs in road improvement and maintenance projects to support all users □ Adopt a Vision Zero strategy for eliminating traffic fatalities □ Pilot new pavement and hard surface materials proven to help reduce infrastructure-related heat gain □ Use green street designs that include tree plantings to support carbon sequestration 	<p>Near-term (2017-20)</p> <ul style="list-style-type: none"> □ Support and/or participate in efforts to build transportation funding coalition □ Support railroad grade separation projects in corridors to allow for longer trains and less delay/disruption to other users of the system

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	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
		<ul style="list-style-type: none"> <input type="checkbox"/> Adopt a Vision Zero strategy for eliminating traffic fatalities <input type="checkbox"/> Update best practices in street design and complete streets, including: <ul style="list-style-type: none"> <input type="checkbox"/> Develop a complete streets checklist <input type="checkbox"/> Provide design guidance to minimize air pollution exposure for bicyclists and pedestrians <input type="checkbox"/> Use of green street designs that include tree plantings to support carbon sequestration <input type="checkbox"/> Identify new pavement and hard surface materials proven to help reduce infrastructure-related heat gain 		
<p>5. Use technology to actively manage the transportation system</p>	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Integrate transportation system management and operations strategies into project development activities <input type="checkbox"/> Expand deployment of intelligent transportation systems (ITS), including active traffic management, incident management and traveler information programs <input type="checkbox"/> Partner with cities, counties and TriMet to expand deployment of transit signal priority along corridors with 15-minute or better transit service <input type="checkbox"/> Pursue opportunities and funding for pilot projects that help establish the region as a living laboratory for sustainable and multi-modal intelligent transportation systems (ITS) 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Seek Metro Council/JPACT commitment to invest more in transportation system management and operations (TSMO) projects using regional flexible funds <input type="checkbox"/> Advocate for increased state commitment to invest more in TSMO projects using state funds <input type="checkbox"/> Pursue opportunities and funding for pilot projects that help establish the region as a living laboratory for sustainable and multi-modal intelligent transportation systems (ITS) <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Build capacity and strengthen interagency coordination <input type="checkbox"/> Provide technical assistance and grant funding to integrate transportation system management operations strategies in local plans, project development, and development review activities <input type="checkbox"/> Update Regional TSMO Strategic Plan by 2018 <input type="checkbox"/> Implement the Climate Smart Communities Strategy transportation system management investments and actions in the 2018 RTP 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Continue implementing adopted transportation system plans <input type="checkbox"/> Advocate for increased regional and state commitment to invest more in TSMO projects using regional and state funds <input type="checkbox"/> Pursue opportunities and funding for pilot projects that help establish the region as a living laboratory for sustainable and multi-modal intelligent transportation systems (ITS) <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Expand deployment of intelligent transportation systems (ITS), including active traffic management, incident management and travel information programs and coordinate with capital projects <input type="checkbox"/> Partner with TriMet to expand deployment of transit signal priority along corridors with 15-minute or better transit service <input type="checkbox"/> Complete an inventory of the installed intelligent transportation systems (ITS) along arterials to help prioritize areas where limited funding could best be directed to increase roadway performance 	<p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Partner with cities, counties and ODOT to expand deployment of transit signal priority along corridors with 15-minute or better transit service <input type="checkbox"/> Pursue opportunities and funding for pilot projects that help establish the region as a living laboratory for sustainable and multi-modal intelligent transportation systems (ITS)
<p>6. Provide information and incentives to expand the use of travel options</p>	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Adopt Statewide Transportation Options Plan with funding strategy to implement <input type="checkbox"/> Deploy statewide eco-driving educational effort, including integration of eco-driving information in driver's education training courses, Oregon Driver's education manual and certification programs <input type="checkbox"/> Review EcoRule to identify opportunities to 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Seek Metro Council/JPACT commitment to invest more regional flexible funds to expand direct services and funding provided to local partners (e.g., local governments, transportation management associations, and other non-profit and community-based organizations) to implement expanded education, recognition and outreach efforts in coordination with other 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Continue implementing adopted transportation system plans <input type="checkbox"/> Advocate for increased state and regional funding to expand direct services provided to local partners (e.g., local governments, transportation management associations, and other non-profit organizations) to support expanded education, recognition and outreach 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Expand employer program capacity and staffing to support expanded education, recognition and outreach efforts

RECOMMENDED TOOLBOX OF POSSIBLE ACTIONS

TOOLBOX OF POSSIBLE ACTIONS (2015-2020)

POLICY	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
	<p>improve effectiveness</p> <ul style="list-style-type: none"> <input type="checkbox"/> Increase state capacity and staffing to support on-going EcoRule implementation and monitoring <input type="checkbox"/> Deploy video conferencing, virtual meeting technologies and other communication technologies to reduce business travel needs <input type="checkbox"/> Partner with TriMet, SMART and media partners to link the Air Quality Index to transportation system information outlets <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Promote and provide information, recognition, funding and incentives to encourage commuter programs and individualized marketing to provide employers, employees and residents information and incentives to use travel options <input type="checkbox"/> Integrate transportation demand management practices into planning, project development, and development review activities <input type="checkbox"/> Establish a state vanpool strategy that addresses urban and rural transportation needs <input type="checkbox"/> Integrate promotion of workplace charging, carsharing, and new people mover services into employer-based outreach programs that encourage transit, walking, bicycling and carpooling <input type="checkbox"/> Integrate education about vehicle and fuel efficiency into public awareness strategies such as eco-driving promotion <input type="checkbox"/> Integrate education about carsharing programs into public awareness strategies 	<p>capital investments</p> <ul style="list-style-type: none"> <input type="checkbox"/> Provide funding and partner with community-based organizations to develop culturally relevant information materials <input type="checkbox"/> Develop best practices on how to integrate transportation demand management in local planning, project development, and development review activities <input type="checkbox"/> Integrate transportation demand management practices into planning, project development and development review activities <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Expand on-going technical assistance and grant funding to local governments, transportation management associations, business associations and other non-profit organizations to incorporate travel information and incentives in local planning and project development activities and at worksites <input type="checkbox"/> Establish an on-going individualized marketing program that targets deployment in conjunction with capital investments being made in the region <input type="checkbox"/> Begin update to Regional Travel Options Strategic Plan in 2018 <input type="checkbox"/> Implement the Climate Smart Communities Strategy transportation demand management investments and actions in the 2018 RTP <input type="checkbox"/> Clarify that e-bikes are part of the regional toolkit of travel options <input type="checkbox"/> Encourage regional carsharing services to increase their use of electric vehicles and other clean fuel alternatives <input type="checkbox"/> Integrate promotion of workplace charging, carsharing, and new people mover services into employer-based outreach programs that encourage transit, walking, bicycling and carpooling <input type="checkbox"/> Integrate education about vehicle and fuel efficiency into public awareness strategies such as eco-driving promotion <input type="checkbox"/> Integrate education about carsharing programs into public awareness strategies 	<p>efforts in coordination with other capital investments</p> <ul style="list-style-type: none"> <input type="checkbox"/> Host citywide and community events like Bike to Work Day and Sunday Parkways <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Integrate transportation demand management practices into planning, project development, and development review activities <input type="checkbox"/> Provide incentives for new development over a specific trip generation threshold to provide travel information and incentives to support achievement of EcoRule and mode share targets adopted in local and regional plans <input type="checkbox"/> Partner with businesses and/or business associations and transportation management associations to implement demand management programs in employment areas and centers served with active transportation options, 15-minute or better transit service, and parking management <input type="checkbox"/> Expand local travel options program delivery through new coordinator positions and partnerships with business associations, transportation management associations, and other non-profit and community-based organizations 	
<p>7. Manage parking to make efficient use of vehicle parking and land dedicated to parking spaces</p>	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Provide technical assistance and grant funding to support development of parking management plans at the local and regional level 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Expand on-going technical assistance to local governments, developers and others to incorporate parking management approaches in 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Consider charging for parking in high usage areas served by 15-minute or better transit service and active transportation options 	<p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Provide preferential parking for electric vehicles, vehicles using alternative fuels and carpools <input type="checkbox"/> Increase safe, secure and convenient bicycle

RECOMMENDED TOOLBOX OF POSSIBLE ACTIONS

TOOLBOX OF POSSIBLE ACTIONS (2015-2020)

POLICY	TOOLBOX OF POSSIBLE ACTIONS (2015-2020)			
	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
	<ul style="list-style-type: none"> <input type="checkbox"/> Distribute "Parking Made Easy" handbook and provide technical assistance, planning grants, model code language, education and outreach <input type="checkbox"/> Increase safe, secure and convenient bicycle parking <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Provide preferential parking for electric vehicles, vehicles using alternative fuels and carpools <input type="checkbox"/> Prepare inventory of state-owned public parking spaces and usage <input checked="" type="checkbox"/> Provide monetary incentives such as parking cash-out and employer buy-back programs <input checked="" type="checkbox"/> Develop and support pilot projects and model planning approaches to encourage highly visible charging infrastructure on-street and in the public right-of-way <input type="checkbox"/> Join the Workplace Charging Challenge as a partner 	<p>local plans and projects</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Build a diverse coalition that includes elected officials and community and business leaders at local, regional and state levels working together to: <input checked="" type="checkbox"/> Discuss priced parking as a revenue source to help fund travel information and incentives programs, active transportation projects and transit service <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Expand on going technical assistance to local governments, developers and others to incorporate parking management approaches in local plans and projects <input type="checkbox"/> Pilot projects to develop model parking management plans and model ordinances for different development types <input checked="" type="checkbox"/> Research and update regional parking policies to more comprehensively reflect the range of parking approaches available for different development types and to incorporate goals beyond customer access, such as: <ul style="list-style-type: none"> <input type="checkbox"/> linking parking approaches to the level of transit service and active transportation options provided <input type="checkbox"/> use of priced parking as a revenue source to help fund travel information and incentives programs, active transportation projects and transit service <input checked="" type="checkbox"/> linking parking policies in mixed-use transit corridors and centers with maintaining and providing affordable housing <input checked="" type="checkbox"/> Amend Title 6 of Regional Transportation Functional Plan to update regional parking map and reflect updated regional parking policies <input checked="" type="checkbox"/> Join the Workplace Charging Challenge as a partner <input checked="" type="checkbox"/> Develop and support "charging oases" with multiple chargers, modeled on the Electric Avenue project at Portland State University <input checked="" type="checkbox"/> Convene regional transportation and planning officials to develop strategies for developing cost-effective charging infrastructure that also reinforces regional planning goals 	<p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Prepare community inventory of public parking spaces and usage <input type="checkbox"/> Adopt shared and unbundled parking policies <input type="checkbox"/> Require or provide development incentives for developers to separate parking from commercial space and residential units in lease and sale agreements <input type="checkbox"/> Provide preferential parking for electric vehicles, vehicles using alternative fuels and carpools <input type="checkbox"/> Require or provide development incentives for large employers to offer employees a parking cash-out option where the employee can choose a parking benefit, a transit pass or the cash equivalent of the benefit <input type="checkbox"/> Increase safe, secure and convenient bicycle parking <input type="checkbox"/> Reduce requirements for off-street parking and establish off-street parking supply maximums, as appropriate, enacting and adjusting policies to minimize spillover impacts in adjacent areas <input checked="" type="checkbox"/> Prepare parking management plans tailored to 2040 centers served by high capacity transit (existing and planned) <input checked="" type="checkbox"/> Join the Workplace Charging Challenge as a partner <input checked="" type="checkbox"/> Develop and support pilot projects and model planning approaches to encourage highly visible charging infrastructure on-street and in the public right-of-way <input type="checkbox"/> Support efforts to future proof new developments, particularly multi-family housing and large parking lots, by installing conduit for future charging of at least 20% of parking spaces, similar to standards in Hawaii, California and elsewhere 	<p>parking</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Join the Workplace Charging Challenge as a partner <input type="checkbox"/> Develop and support pilot projects and model planning approaches to encourage highly visible charging infrastructure on-street and in the public right-of-way
<p>8. Secure adequate funding for transportation investments</p>	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Preserve local options for raising revenue to 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Update research on regional infrastructure gaps 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support and/or participate in efforts to build 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support and/or participate in efforts to build

RECOMMENDED TOOLBOX OF POSSIBLE ACTIONS

TOOLBOX OF POSSIBLE ACTIONS (2015-2020)

POLICY	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
	<p>ensure local communities have a full range of financing tools available to adequately fund current and future transportation needs</p> <ul style="list-style-type: none"> <input type="checkbox"/> Seek and advocate for new, dedicated funding mechanism(s) for active transportation and transit <input type="checkbox"/> Research and consider carbon pricing models to generate new funding for clean energy, transit and active transportation, alleviating regressive impacts to businesses and communities of concern <input type="checkbox"/> Increase state gas tax (indexed to inflation and fuel efficiency) <input type="checkbox"/> Implement a mileage-based road usage charge program as called for in Senate Bill 810 <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Expand funding available for active transportation and transit investments <input type="checkbox"/> Broaden implementation of the mileage-based road usage charge 	<p>and potential funding mechanisms to inform communication materials that support engagement activities and development of a funding strategy to meet current and future transportation needs</p> <ul style="list-style-type: none"> <input type="checkbox"/> Build a diverse coalition that includes elected officials and community and business leaders at local, regional and state levels working together to: <ul style="list-style-type: none"> <input type="checkbox"/> Advocate for local revenue raising options <input type="checkbox"/> Seek and advocate for new, dedicated funding mechanism(s) for transit and active transportation <input type="checkbox"/> Seek transit and active transportation funding from Oregon Legislature <input type="checkbox"/> Consider local funding mechanism(s) for local and regional transit service <input type="checkbox"/> Support state efforts to research and consider carbon pricing models <input type="checkbox"/> Build local and state commitment to implement Active Transportation Plan, and Safe Routes to Schools (including high schools) and Safe Routes to Transit programs <input type="checkbox"/> Ensure adequate funding of local maintenance and safety needs and support city and county efforts to fund safety, maintenance and preservation needs locally <input type="checkbox"/> Support state and federal efforts to increase gas tax (indexed to inflation and fuel efficiency) <input type="checkbox"/> Support state and federal efforts to implement road usage charge program <input type="checkbox"/> Discuss priced parking as a revenue source for travel information and incentives programs, active transportation projects and transit service 	<p>transportation funding coalition</p> <ul style="list-style-type: none"> <input type="checkbox"/> Advocate for local revenue raising options <input type="checkbox"/> Support state efforts to implement a mileage-based road usage charge program <input type="checkbox"/> Support state efforts to research and consider carbon pricing models <input type="checkbox"/> Consider local funding mechanism(s) for local and regional transportation needs, including transit service and active transportation <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Work with local, regional and state partners, including elected officials and business and community leaders, to develop a funding strategy to meet current and future transportation needs 	<p>transportation funding coalition</p> <ul style="list-style-type: none"> <input type="checkbox"/> Advocate for local revenue raising options <input type="checkbox"/> Seek and advocate for new, dedicated funding mechanism(s) for active transportation and transit <input type="checkbox"/> Support state efforts to research and consider carbon pricing models <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Work with local, regional and state partners, including elected officials and business and community leaders, to develop a funding strategy to meet current and future transportation needs
<p>9. Support Oregon’s transition to cleaner, low carbon fuels, more fuel-efficient vehicles and pay-as-you-drive insurance</p>	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Reauthorize Oregon Clean Fuels Program <input type="checkbox"/> Implement Oregon Zero Emission Vehicle Program and Multi-State Zero Emission Vehicle Action Plan in collaboration with California and other states <input type="checkbox"/> Lead by example by increasing the public alternative fuel vehicle (AFV) fleet <input type="checkbox"/> Provide funding to Drive Oregon to advance electric mobility, and to other endeavors that advance alternative fuels 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support reauthorization of the Oregon Clean Fuels Program through Legislative agenda, testimony, endorsement letters or similar means <input type="checkbox"/> Support the Oregon Zero Emission Vehicle Program through Legislative agenda, testimony, endorsement letters or similar means <input type="checkbox"/> <u>Support renewal of Oregon's tax credits for charging stations and other alternative fueling infrastructure</u> <input type="checkbox"/> <u>Support legislation being promoted by Drive</u> 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support reauthorization of the Oregon Clean Fuels Program through Legislative agenda, testimony, endorsement letters or similar means <input type="checkbox"/> Support the Oregon Zero Emission Vehicle Program through Legislative agenda, testimony, endorsement letters or similar means <input type="checkbox"/> <u>Update development codes to streamline/incent/encourage the installation of electric vehicles charging stations, alternative fueling stations and infrastructure, particularly</u> 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support reauthorization of the Oregon Clean Fuels Program through Legislative agenda, testimony, endorsement letters or similar means <input type="checkbox"/> Support the Oregon Zero Emission Vehicle Program through Legislative agenda, testimony, endorsement letters or similar means <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Provide electric vehicle charging and CNG stations in public places (e.g., park-and-rides, parking garages)

RECOMMENDED TOOLBOX OF POSSIBLE ACTIONS

TOOLBOX OF POSSIBLE ACTIONS (2015-2020)

POLICY	TOOLBOX OF POSSIBLE ACTIONS (2015-2020)			
	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
	<ul style="list-style-type: none"> <input type="checkbox"/> Work with insurance companies to offer and encourage pay-as-you-drive insurance <input type="checkbox"/> Support renewal of Oregon's tax credits for charging stations and other alternative fueling infrastructure <input type="checkbox"/> Support legislation being promoted by Drive Oregon and the Energize Oregon Coalition to create a purchase rebate for electric vehicles <input type="checkbox"/> Join Drive Oregon an Energize Oregon Coalition as a member organization and participate as an active partner in promoting electric vehicle readiness and deployment <input type="checkbox"/> Review the state greenhouse gas emissions reduction targets, including assumptions related to fleet and technology advancements <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Provide consumer and business incentives to purchase new AFVs <input type="checkbox"/> Expand communication efforts about the cost savings of driving more fuel-efficient vehicles <input type="checkbox"/> Promote and provide information, funding and incentives to encourage the provision of electric vehicle charging and compressed natural gas (CNG) stations and infrastructure in residences, work places and public places <input type="checkbox"/> Encourage private fleets to purchase, lease or rent AFVs <input type="checkbox"/> Develop model code for electric and CNG vehicle infrastructure and partnerships with businesses <input type="checkbox"/> Remove barriers to electric and CNG vehicle charging and fueling station installations <input type="checkbox"/> Promote AFV infrastructure planning and investment by public and private entities <input type="checkbox"/> Provide clear and accurate signage to direct AFV users to charging and fueling stations and parking <input type="checkbox"/> Expand communication efforts to promote AFV tourism activities <input type="checkbox"/> Continue participation in the Pacific Coast Collaborative, Western Climate Initiative, and West Coast Green Highway Initiative and partner with members of Energize Oregon coalition <input type="checkbox"/> Track and report progress toward adopted state goals related to greenhouse gas emissions reductions and AFV deployment <input type="checkbox"/> Provide incentives and information to expand use of pay-as-you-drive insurance and report on 	<p>Oregon and the Energize Oregon Coalition to create a purchase rebate for electric vehicles</p> <ul style="list-style-type: none"> <input type="checkbox"/> Join Drive Oregon an Energize Oregon Coalition as a member organization and participate as an active partner in promoting electric vehicle readiness and deployment <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lead by example by increasing public AFV fleet <input type="checkbox"/> Support state efforts to build public acceptance of pay-as-you-drive insurance <input type="checkbox"/> Expand communication efforts about the cost savings of driving more fuel-efficient vehicles <input type="checkbox"/> Partner with state agencies to hold regional planning workshops to educate local governments on AFV opportunities <input type="checkbox"/> Develop AFV readiness strategy for region in partnership with local governments, state agencies, electric and natural gas utilities, non-profits and others <input type="checkbox"/> Increase Metro fleet use of electric vehicles, including non-passenger cars (e-bikes and utility vehicles) <input type="checkbox"/> Expand availability of charging at Metro venues (Oregon Zoo, Expo Center, Convention Center, P5, etc.) 	<p>new buildings</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support renewal of Oregon's tax credits for charging stations and other alternative fueling infrastructure <input type="checkbox"/> Support legislation being promoted by Drive Oregon and the Energize Oregon Coalition to create a purchase rebate for electric vehicles <input type="checkbox"/> Join Drive Oregon an Energize Oregon Coalition as a member organization and participate as an active partner in promoting electric vehicle readiness and deployment <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lead by example by increasing public AFV fleet <input type="checkbox"/> Expand communication efforts about the cost savings of driving more fuel-efficient vehicles <input type="checkbox"/> Pursue grant funding and partners to expand the growing network of electric vehicle fast charging stations and publicly accessible CNG stations <input type="checkbox"/> Partner with local dealerships, Department of Energy (DOE) Clean Cities programs, non-profit organizations, businesses and others to incorporate AFV outreach and education events for consumers in conjunction with such events as Earth Day celebrations, National Plug-In Day and the DOE/Drive Oregon Workplace Charging Challenge <input checked="" type="checkbox"/> Adopt policies and update development codes to support private adoption of AFVs, such as streamlining permitting for alternative fueling stations, planning for access to charging and CNG stations, allowing charging and CNG stations in residences, work places and public places, and providing preferential parking for AFVs <input type="checkbox"/> Update development codes and encourage new construction to include necessary infrastructure to support use of AFVs 	<ul style="list-style-type: none"> <input type="checkbox"/> Provide preferential parking for AFVs

RECOMMENDED TOOLBOX OF POSSIBLE ACTIONS

TOOLBOX OF POSSIBLE ACTIONS (2015-2020)

POLICY	TOOLBOX OF POSSIBLE ACTIONS (2015-2020)			
	WHAT CAN THE STATE DO?	WHAT CAN METRO DO?	WHAT CAN CITIES AND COUNTIES DO?	WHAT CAN SPECIAL DISTRICTS DO? (e.g., transit providers, Port districts, parks providers, etc.)
<p>10. Demonstrate leadership on climate change</p>	<p>progress</p> <p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Update the 2017-20 Statewide Transportation Improvement Program (STIP) allocation process to address the Statewide Transportation Strategy (STS) Vision and STS Short-Term Implementation Plan actions <input type="checkbox"/> Support local government and regional planning for climate change mitigation <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Amend the Oregon Transportation Plan to address the Statewide Transportation Strategy Vision <input type="checkbox"/> Update statewide greenhouse gas emissions inventory and track progress toward adopted greenhouse gas emissions reduction goals <input type="checkbox"/> Through the Oregon Modeling Steering Committee, collaborate on appropriate tools to support greenhouse gas reduction planning <input type="checkbox"/> Report on the potential greenhouse gas emissions impacts of policy, program and investment decisions 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Participate in local, regional and national panels and presentations to share the outcomes and recommendations of the Climate Smart Communities Strategy <input type="checkbox"/> Seek Metro Council/JPACT commitment to address the Climate Smart Strategy in the policy update for the 2018-21 Metropolitan Transportation Improvement Program (MTIP) and the 2019-21 Regional Flexible Fund Allocation (RFFA) process <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Update the Regional Transportation Plan to implement the Climate Smart Communities Strategy <input type="checkbox"/> Evaluate Metro's major land use and RTP policy and investment decisions to determine whether they help the region meet adopted targets for reducing greenhouse gas emissions <input type="checkbox"/> Assess potential risks and identify strategies to address potential climate impacts to transportation infrastructure and operations as part of 2018 RTP update <input type="checkbox"/> Update regional greenhouse gas emissions inventory and track progress toward adopted greenhouse gas emissions reduction target <input type="checkbox"/> Through the Oregon Modeling Steering Committee, collaborate on appropriate tools and methods to support greenhouse gas reduction planning and monitoring <input type="checkbox"/> Report on the potential greenhouse gas emissions impacts of policy, program and investment decisions <input type="checkbox"/> Encourage development and implementation of local climate action plans 	<p>Immediate (2015-16)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Review the Toolbox of Possible Actions to identify actions that are already being implemented and new actions public officials are willing to implement <p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Sign U.S. Conference of Mayors Climate Protection Agreement <input type="checkbox"/> Prepare and periodically update community-wide greenhouse gas emissions inventory <input type="checkbox"/> Report on the potential greenhouse gas emissions impacts of policy, program and investment decisions <input type="checkbox"/> Adopt greenhouse gas emissions reduction policies and performance targets <input type="checkbox"/> Develop and implement local climate action plans 	<p>Near-term (2017-20)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Prepare and periodically update greenhouse gas emissions inventory of transportation operations <input type="checkbox"/> Report on the potential greenhouse gas emissions impacts of policy, program and investment decisions <input type="checkbox"/> Adopt greenhouse gas emissions reduction policies and performance targets

Exhibit C to Ordinance No. 14-1346B

GLOSSARY

Brownfield A property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or containment. Cleaning up and reinvesting in these properties increases local tax bases, facilitates job growth, utilizes existing infrastructure, takes development pressures off of undeveloped, open land, and both improves and protects the environment.

Carsharing A membership based system of short-term automobile rental. Such programs are attractive to customers who make only occasional use of a vehicle, as well as others who would like occasional access to a vehicle of a different type than they use day-to-day. The organization renting the cars may be a commercial business or the users may be organized as a company, public agency, cooperative, or peer-to-peer. Zipcar and car2go are local examples.

Eco-driving A combination of public education, in-vehicle technology and driving practices that result in more efficient vehicle operation and reduced fuel consumption and emissions. Examples of eco-driving techniques include avoiding rapid starts and stops, matching driving speeds to synchronized traffic signals, avoiding excessive idling, and keeping tires properly inflated.

ECO Rule An Oregon Department of Environmental Quality administrative rule (OAR 340-242) that is also called the Employee Commute Options Program. Under the DEQ ECO program, employers with more than 100 employees must provide commute options and incentives to employees designed to reduce the number of cars driven to work in the Portland metropolitan region. The employers must provide incentives for employee use of commute options like taking the bus or carpooling, guaranteed ride home, and financial incentives. The incentives must have the potential to reduce drive alone commute trips to the work site by 10 percent from an established baseline. The ECO program is one of several strategies included in the Ozone Maintenance Plan for the Portland Air Quality Maintenance Area. The Ozone Maintenance Plan will keep the area in compliance with the federal ozone standard.

Employer-based commute programs Work-based travel demand management programs that can include transportation coordinators, employer-subsidized transit pass programs, ride-matching, carpool and vanpool programs, telecommuting, compressed or flexible work weeks and bicycle parking and showers for bicycle commuters.

Fleet mix The percentage of vehicles classified as automobiles compared to the percentage classified as light trucks (weighing less than 10,000 lbs.); light trucks make up 43 percent of the light-duty fleet today.

Fleet turnover The rate of vehicle replacement or the turnover of older vehicles to newer vehicles; the current turnover rate in Oregon is 10 years.

Greenhouse gas emissions Emissions that trap heat in the atmosphere, contributing to global climate change. Some greenhouse gases occur naturally and some are emitted to the atmosphere through natural processes and human activities. Atmospheric gases such as carbon dioxide, methane, and nitrous oxide contribute to global climate change by absorbing infrared radiation produced by solar warming of the Earth's surface. For more information see www.epa.gov/climatechange.

GreenSTEP A modeling tool developed by the Oregon Department of Transportation to estimate GHG emissions at the individual household level. It estimates greenhouse gas emissions associated with vehicle ownership, vehicle travel, and fuel consumption, and is designed to operate in a way that allows it to show the potential effects of different policies and other factors on vehicle travel and emissions. GreenSTEP travel behavior estimates are made irrespective of housing choice or supply; the model only considers the demand forecast components – household size, income and age – and the policy areas considered in this analysis.

Guaranteed Ride Home Program Through a Guaranteed Ride Home program, commuters who use modes such as carpool/vanpool, bicycle, walk, or public transportation, receive a subsidized ride home from work when an unexpected emergency arises.

House Bill 2001 (Oregon Jobs and Transportation Act) Passed by the Legislature in 2009, this legislation provided specific directions to the Portland metropolitan area to undertake scenario planning and develop two or more land use and transportation scenarios by 2012 that accommodate planned population and employment growth while achieving the GHG emissions reduction targets approved by LCDC in May 2011. Metro, after public review and consultation with local governments, is to adopt a preferred scenario. Following adoption of a preferred scenario, the local governments within the Metro jurisdiction are to amend their comprehensive plans and land use regulations as necessary to be consistent with the preferred scenario. For more information go to: http://www.oregonlegislature.gov/bills_laws/lawsstatutes/2009orLaw0865.html

Individualized marketing Travel demand management programs focused on individual households. IM programs involve individualized outreach to households that identify household travel needs and ways to meet those needs with less vehicle travel.

Induced demand Refers to the process whereby improvements in the transportation system intended to alleviate congestion and delay result in additional demand for the transportation segment, offsetting some of the improvement's potential benefits. For instance, when a congested roadway is expanded from 2 to 3 lanes, some drivers will recognize the increased capacity and take this roadway though they had not done so previously.

Infill development Refers to the development or redevelopment of vacant, bypassed or under-utilized lands in an area that is largely developed. An alternative to development that occurs outside existing urban areas.

Intelligent transportation systems Refers to advanced communications technologies that are integrated with transportation infrastructure and vehicles to address transportation problems and enhance the movement of people and goods. ITS can include both vehicle-to-vehicle communication (which allows cars to communicate with one another to avoid accidents) and vehicle-to-infrastructure communication (which allows cars to communicate with the roadway to identify congestion, crashes or unsafe driving conditions).

Light vehicles Vehicles weighing 10,000 pounds or less, and include cars, light trucks, sport utility vehicles, motorcycles and small delivery trucks.

Low Carbon Fuel Standard In 2009, the Oregon legislature authorized the Environmental Quality Commission to develop low carbon fuel standards (LCFS) for Oregon. The program has since been renamed the Clean Fuels Program. Each type of transportation fuel (gasoline, diesel, natural gas, etc.) contains carbon in various amounts. When the fuel is burned, that carbon turns into carbon dioxide (CO₂), which is a greenhouse gas. The goal is to reduce the average carbon intensity of Oregon's transportation fuels by 10 percent below 2010 levels by 2022 and applies to the entire mix of fuel available in Oregon. Carbon intensity refers to the emissions per unit of fuel; it is not a cap on total emissions or a limit on the amount of fuel that can be burned. The lower the carbon content of a fuel, the fewer greenhouse gas emissions it produces.

Mixed-use development Refers to portions of urban areas where commercial (e.g., retail, office, entertainment) and non-commercial uses (such as residential space), are located near one another. Different uses may be mixed vertically (e.g., housing above retail) or horizontally (e.g., housing within walking distance of retail). Mixed-use development reduces demand for motorized transportation by locating common destinations near residences where transit, pedestrian and bicycle access is convenient.

Oregon Sustainable Transportation Initiative (OSTI) An integrated statewide effort to reduce GHG emissions from the transportation sector by integrating land use and transportation. OSTI is the result of several bills passed by the Oregon Legislature designed to help Oregon meet its 2050 goal of reducing greenhouse gas emissions by 75 percent below 1990 levels. Guided by stakeholder input, the initiative has built collaborative partnerships among local governments and the state's six Metropolitan Planning Organizations to help meet Oregon's goals to reduce GHG emissions. The effort includes five main areas: Statewide Transportation Strategy development, GHG emission reduction targets for metropolitan areas, land use and transportation scenario planning guidelines, tools that support MPOs and local governments and public outreach. For more information, go to www.oregon.gov/odot/td/osti

Parking cash-out program Refers to programs intended to reduce vehicle trips and increase the use of alternative travel modes by offering employees monetary incentives for relinquishing their parking space. Also referred to as an employer buy-back program.

Parking management Strategies that encourage more efficient use of existing parking facilities, improve the quality of service provided to parking facility users and improve parking facility design. Examples include developing an inventory of parking supply and usage, reduced parking

requirements, shared and unbundled parking, parking-cash-out, priced parking, bicycle parking and providing information on parking space availability. For more information go to www.vtpi.org/park_man.pdf

Pay-as-you-drive insurance (PAYD) A method of insuring vehicles in which premiums are based in large part on the vehicle miles traveled within a given period of time. PAYD is also sometimes referred to as distance-based, usage-based, or mileage-based insurance. This pricing strategy converts a portion of liability and collision insurance from dollars-per-year to cents-per-mile to charge insurance premiums based on the total amount of miles driven per vehicle on an annual basis and other important rating factors, such as the driver's safety record. If a vehicle is driven more, the crash risk consequently increases. PAYD insurance charges policyholders according to their crash risk.

Peer-to-peer carsharing A car sharing program where the vehicle fleet is composed of privately owned vehicles that are available to rent to others at rates set by the car owners.

Ramp meter A traffic signal used to regulate the flow of vehicles entering the freeway. Ramp meters smooth the merging process resulting in increased freeway speeds and reduced crashes. Ramp meters are automatically adjusted based on traffic conditions.

Scenario A term used to describe a possible future, representing a hypothetical set of strategies or sequence of events.

Scenario planning A process that tests different actions and policies to see their affect on GHG emissions reduction and other quality of life indicators.

Social costs In the context of the Climate Smart Communities Strategy, social costs refer to the unintended consequences of transportation, such as carbon emissions that contribute to climate change, air pollution that causes health and environmental problems, energy security costs associated with importing fossil fuels from foreign nations, and other such impacts.

Statewide Transportation Strategy The strategy, as part of OSTI, will define a vision for Oregon to reduce its GHG emissions from transportation systems, vehicle and fuel technologies and urban form by 2050. Upon completion, the strategy will be adopted by the Oregon Transportation Commission. For more information go to: www.oregon.gov/ODOT/TD/OSTI/STS.shtml.

System efficiency Strategies that optimize the use of the existing transportation system, including traffic management, employer-based commute programs, individualized marketing and carsharing.

Traffic incident management Planned and coordinated processes followed by state and local agencies to detect, respond to, and remove traffic incidents as quickly and safely in order to keep highways flowing efficiently.

Traffic management Strategies that improve transportation system operations and efficiency, including ramp metering, active traffic management, traffic signal coordination and real-time traveler information regarding traffic conditions, incidents, delays, travel times, alternate routes, weather conditions, construction, or special events.

Travel (or transportation) demand management (TDM) The application of techniques that affect when, how, where, and how much people travel, done in a purposeful manner by government or other organizations. TDM techniques include education, policies, regulations, and other combinations of incentives and disincentives, and are intended to reduce drive alone vehicle trips on the transportation network.

TripCheck An Oregon Department of Transportation website⁷³ that displays real-time data regarding road conditions, weather conditions, camera images, delays due to congestion and construction, and other advisories. Additionally, TripCheck provides travelers with information about travel services such as food, lodging, attractions, public transportation options, scenic byways, weather forecasts, etc. This information is also available through the 511 travel information phone line.

Unbundled parking A policy tool to encourage or require that residential or commercial parking be rented or sold separately, rather than automatically included with building space. Separate pricing can help reduce demand for parking as well as the combined housing/transportation costs for residents or business owners since occupants only pay for the parking they need. Unbundling can be done in several ways:

- Parking can be bought or rented separately when the apartment, condo, or office space is bought or leased.
- Renters can be offered a discount on their rent for not using parking spaces.
- Parking costs can be listed as a separate line item in lease agreements to show tenants the cost and enable them to negotiate reductions.
- Unbundling can be encouraged informally by creating a market for available parking spaces - building managers can keep a list of tenants or owners with excess spaces available for rent.

U.S. Conference of Mayors Climate Protection Agreement An agreement where supporting mayors pledge to reduce greenhouse gas emissions by 7 percent below 1990 levels by 2012. On February 16, 2005 the Kyoto Protocol, the international agreement to address climate change, became law for the countries that have ratified it. On that day, Seattle Mayor Greg Nickels launched this initiative to advance the goals of the Kyoto Protocol through leadership and action by U.S. cities. By the 2005 U.S. Conference of Mayors Annual Meeting in June, 141 mayors had signed the Agreement – the same number of nations that ratified the Kyoto Protocol.

Since 2005, more than 1,000 mayors across all 50 states and Puerto Rico had signed on. Under the Agreement, participating cities commit to take following three actions:

- Strive to meet or beat the Kyoto Protocol targets in their own communities, through actions ranging from land-use and transportation policies to urban forest restoration projects to public information campaigns;
- Urge their state governments, and the federal government, to enact policies and programs to

meet or beat the greenhouse gas emission reduction target suggested for the United States in the Kyoto Protocol 7% reduction from 1990 levels by 2012; and

- Urge the U.S. Congress to pass the bipartisan greenhouse gas reduction legislation, which would establish a national emission trading.

For more information go to [www. http://usmayors.org](http://usmayors.org)

Vehicle-to-vehicle communication technology Wireless technology that allows for the transfer of information between vehicles. One major goal behind this research is to improve roadway safety. The Research and Innovative Technology Administration of the U.S. Department of Transportation (DOT) is currently investigating many potential benefits of this new technology.

Vision Zero Strategy An action plan for eliminating traffic fatalities and serious injury crashes for all modes of travel. The action plan typically includes a combination of enforcement, improved engineering, operations, design and emergency response, public education campaigns that identify dangerous or unsafe behavior on roads and streets to improve safety, and performance monitoring to track progress. The Vision Zero Strategy adopted for the city of New York can be found at: www.nyc.gov/html/visionzero/pdf/nyc-vision-zero-action-plan.pdf.

West Coast Green Highway An initiative to advance the adoption and use of electric and alternative-fuel vehicles along the I-5 corridor in Washington, Oregon, and California. For more information go to www.westcoastgreenhighway.com