

CAP2.0 Implementation Plan

Summary:

The CAP2.0 Implementation Plan is a formatted table developed to provide high level summary information and relationships among the 115 actions that make up the CAP2.0. At the behest of the Sustainability Commission, Eugene City Council directed staff to put together a summary table, or Implementation Plan, of these actions highlighting high level details like cost estimates, climate and community impact, funding source, timelines, etc.

A few notes to assist with reading this plan:

How the table is organized



























The table is organized into 8 sections: Action, Department/Agency, Current Status, Climate/Community Impact, Project Cost Estimate, Funded, Budget and Comments. Like the CAP2.0 the 115 actions are divided by bucket and listed in the order they are written in the CAP2.0.

Reading the table

The Legend tab provides details as to how Climate and Community impacts are scaled, as well as details regarding estimated project cost scales. The Climate Impact scale for mitigation actions was developed by the Good Company in 2020. The Community Impact scale for adaption (resiliency) actions was developed by internal stakeholders. The estimated project cost scale was developed with support from the City's Finance department. There is a key next to each new bucket that corresponds with these scales. If cells are empty it is because the data was not available or inconclusive.

Additional notes

Please note that throughout data collection, internal and external partners alike noted many changes to these actions in the year since the CAP2.0 was approved. The information in this table is an estimate based on current conditions and available data.

Action	Dept/Agency	Action Current Status			Climate and Community Impact		Estimated Project Cost		Funded	Budget					Comments	
		In progress	Completed	To be completed	Mitigation	Adaptation	Cost	FTE Only		Grant	Fund	Rate Payer	Bond	Other		
Transportation															KEY Climate Mitigation: High  Medium  Low  Estimated Project Cost: High  Medium  Low  Funded: Total  In Part  No 	
See Legend column for Climate Impact and Project Cost and Funding key																
City of Eugene Actions																
Transportation System Plan																
Action T1 COE to build and complete 261 transportation projects that enhance bicycle, pedestrian and rail facilities in Eugene included in the TSP. See page 32 for a summary of the types of projects included and the TSP for a detailed list of projects.	PW	✓								✓	✓		✓	✓		The city builds numerous pedestrian and bicycle projects every year. Numerous funds: federal and state grants, SDCs, Road Fund, Ped/Bike component of street bond. Funded but not yet build projects can be found in the CIP.
Action T2 COE to work towards requiring all employers of a certain size and type, including COE, to prepare, implement and monitor Transportation Options Plans, plans that help people use the infrastructure in place for transit, ridesharing, walking, biking, and telework. This action is funded in part by ODOT and is expected to be completed by 2022.	PW			Expected completion 2022				✓		✓				✓		Federal grants via ODOT are paying for most of this work. The city matches the grant with staff time. Expected to be complete by 2022.
Action T3 COE to provide education and encourage programs, such as SmartTrips and school-based transportation options (like Safe Routes to School), to improve safety for all travelers and encourage the use of active transportation and telecommuting.	PW	✓						✓		✓				✓		Federal grants with staff time as local match. This is an ongoing program that has been on somewhat of a hiatus due to COVID.
Action T4 COE to develop a systemic method for measuring trips made by walking, biking and driving by 2022.	PW			Expected completion 2022				✓						✓		Current data can be shared separately. This measure is hard to measure emissions reductions because don't know how much they could be/would be used.
Action T5 COE and LTD to complete the Moving Ahead planning process to identify investment packages and move on to the implementation phase for improved transportation corridors. The planning process is expected to be completed in 2020. Once the planning process is complete, the investments recommended will be implemented by securing federal, state and local funding, especially looking at the capital investment grant (CIG) program within FTA.	PW	✓		Hoping to complete decision making in 2021				✓	Staff time provided	✓	✓			✓		Hoping to complete the decision making process by the end of 2021. The cost of this action is FTE only for planning purposes, but the implementation represents a high capital cost. Implementation is not yet funded. staff time, federal grant managed by LTD.
Action T6 COE will adopt new Complete Street Design Standards for capital infrastructure projects by 2022. These standards will inform the design of future COE capital and privately engineered public improvements projects on streets and shared paths.	PW			Expected completion 2022				✓						✓		Emissions reductions could be higher if this action was not only for new construction but also retrofitting existing infrastructure. It is hard to scale corridor improvements without programming or ensuring it is used. Expected completion in 2022.
Action T7 COE to develop a sidewalk infill program and strategy for upgrading unimproved streets, prioritizing Vision Zero, Safe Routes to School, and connectivity to schools, parks, shopping, and important community resources.	PW			Expected completion 2022				✓	Staff time provided	✓				✓	Expected completion in 2022.	
Action T8 COE to initiate process to update the TSP by 2021 so that the goals, policies and projects included in the TSP fully meet CRO goals. Proposed changes to the TSP will be informed by the Strategic Assessment being completed by ODOT and the Central Lane Metropolitan Planning Organization with input from COE. The Strategic Assessment is a modeling tool that provides insights as to how actions and policies undertaken by the City of Eugene and partner agencies impact our community wide GHG emissions. Inputs into the Strategic Assessment model include parking policies and pricing, transit service and transportation options programming. The model provides the ability to look at how different levels of these inputs affect GHG emissions.	PW			Expect to begin this process in 2021 and complete in 2022-2023						✓				✓	We plan to begin this process in fall 2021. Action expected for completion 2022/2023.	

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Climate Mitigation:																
Compact Development															Emissions reduction potential is not additive. While these actions do represent potential for emission reductions, there are redundancies among these actions. This is beneficial for reducing emissions in growth, but not necessarily reducing ongoing emissions.	
Envision Eugene																
Action T9 COE to create a dynamic Eugene-specific comprehensive plan to address emerging needs. In 2017, Eugene completed the first phase of adopting a Eugene-specific comprehensive plan, which includes the Eugene UGB. This action is expected to be completed by 2025 and is part of the Provide for Adaptable, Flexible and Collaborative Implementation Pillar of Envision Eugene.	PDD			Estimated completion in 2025.											<p>✓</p> <p>This action overlaps other actions in the transportation section. Emissions reductions are not additive across these actions. Retrofitting old neighborhoods with dramatically densified new construction, access to active transportation systems and 20-minute neighborhood components will increase emissions reductions. Funded by general fund. Estimated completion 2025.</p>	
Action T10 COE to plan to meet all of the 20-year multi-family housing and commercial job needs within the existing UGB. This action includes planning to integrate new development and redevelopment in the downtown, on key transit corridors, and in core commercial areas. This action is part of the Promote Compact Urban Development and Efficient Transportation Options Pillar of Envision Eugene.	PDD	✓													<p>✓</p> <p>The Growth Monitoring Program will evaluate this action. Emissions reduction potential will stem from from the balance between building more (more emissions) and increasing density with accompanying emissions reduction strategies in transportation</p>	
Action T11 COE to make compact urban development easier in the downtown, on key transit corridors, and in core commercial areas. This includes removing regulatory barriers, flexible uses within industrial and commercial, reduce financial obstacles, restructure SDCs for smaller homes and denser development, additional incentives, flexible land use codes, and ensure transportation system can support planned densities. This action is part of the Promote Compact Urban Development and Efficient Transportation Options Pillar of Envision Eugene.	PDD	✓							✓	✓					<p>✓</p> <p>This action is funded through the General Fund and is ongoing.</p>	
Action T12 COE to expand housing variety and choice by facilitating the building of smaller, clustered and attached housing. This action includes providing flexibility in land use, removing land use code and permitting process barriers, promoting existing incentives such as EWEB small house incentives, and new incentives such as restructuring SDCs and attached housing loans. This action is a part of the Providing Housing Affordable to All Income Levels Pillar of Envision Eugene.	PDD	✓							✓	✓					<p>✓</p> <p>Implementing House Bills 2001 and 2003 will fold into this ongoing work. While emissions reductions do come from more housing in less space, single unit housing doesn't represent the same emissions reduction capacity as multifamily housing. This work is ongoing and funded through the General Fund and state grants for HB 2001.</p>	
Action T13 COE to plan for growth so that an increasing proportion of residents live in 20-Minute Neighborhoods where residents can meet most of their daily needs near their homes without the use of an automobile. This includes identifying location opportunities for flexible codes, transportation infrastructure improvements, parks and open space, partnerships and incentives. This action is part of the Plan for Climate Change and Energy Resiliency Pillar of Envision Eugene.	PDD	✓								✓					<p>✓</p> <p>Emission reductions are higher if retrofitting existing neighborhoods. T his work is ongoing and funded through the General Fund.</p>	
Additional Compact Development Strategies																
Action T14 COE to incentivize transit-oriented development and walkable neighborhoods using tools such as the Multi-Unit Property Tax Exemption (MUPTE), a state-enabled 10-year property tax exemption, to stimulate the construction of multi-unit housing downtown and along key corridors. MUPTE is currently authorized to be used in downtown Eugene. Programs to facilitate more housing downtown, including MUPTE, are an Envision Eugene strategy anticipated to achieve an additional 1,000 dwellings by 2032.	PDD	✓	✓	Ongoing as area/corridor plans are completed											<p>✓</p> <p>MUPTE being evaluated through the Housing Implementation Pipeline (HIP). The Corridor plans are complete but the area is in progress. This work is ongoing and paid through the General Fund.</p>	

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<p>Action T15 COE to encourage housing diversity in all neighborhoods. Support the construction of duplexes, triplexes, quadplexes, townhomes, and cottage clusters throughout the community. Directly implement House Bill (HB) 2001, the state law that enables missing middle housing options on lots zoned for residential uses by June 2022. (HTS Process, Envision Eugene, SB 1051, HB 2001)</p>	PDD	✓		HB 2001 must be implemented by June 30, 2022						✓	✓				<p>HB 2001 must be completed by June 30, 2022. This work is funded by the General fund, City project dollars, state grant.</p>	<p>Climate Mitigation:</p>
<p>Action T16 COE to support accessory dwelling construction. COE City Council reduced barriers to accessory dwellings in accordance with Senate Bill (SB) 1051 and HB 2001. For example, City Council removed some land use code barriers and eliminated transportation system development charges (SDCs) for accessory dwellings with an annual cap on the amount of charges that can be waived.</p>	PDD		✓				✓			✓				<p>The City took action on this item September 15, 2021.</p>		
<p>Action T17 COE to update its Clear and Objective Housing Regulations to mitigate barriers to housing, increase efficiency and predictability in the review process, and effectively address development impacts. State law entitles housing applications to clear and objective standards, conditions, and procedures. Eugene will need to accommodate approximately 15,000 new homes within our UGB by 2032 while preserving the community's values regarding livability, public health and safety, and natural resource protection. The project is expected to be completed by 2021.</p>	PDD		✓							✓				<p>Completed 2021. Funded through General fund and city project funds.</p>		
<p>Action T18 COE and Lane County to finish the River Road- Santa Clara Neighborhood Plan in collaboration with the River Road and Santa Clara Community Organizations as well as neighbors and businesses. The plan along with the transit-oriented development efforts of the River Road Corridor Study will allow mixed-use development and remove barriers to middle housing. Completion and adoption of this plan is expected for Spring 2021.</p>	PDD			Adoption process expected to begin Winter 2022.					✓	✓				<p>Adoption process anticipated to begin in Winter 2022. This is funded through General fund, city project dollars and federal grant.</p>		
<p>Action T19 COE to develop a Growth Monitoring Program to monitor community and development trends. Housing data is a key part of this program including housing permit data, land divisions, and affordability. This work is ongoing with the first monitoring report due to City Council Winter 2021.</p>	PDD	✓								✓				<p>This is funded through General fund and city project dollars.</p>		
<p><i>Electric Vehicles</i></p>															<p>The aggregate benefit of electric vehicles is large and quantifiable. EV adoption is one of the quickest pathways available right now to lower greenhouse gas emissions.</p>	
<p>Action T20 COE to evaluate introducing parking and infrastructure requirements for electric vehicles (EV) and small electric vehicles (SEV) at new multi-family housing projects and commercial construction projects by 2021, and to include EV and SEV parking in City-supported affordable housing developments between 2023 and 2025.</p>	PW			Expected to be complete by Winter 2025			✓			✓	✓			<p>Funded through PDD and State of Oregon. This action is slated for completion by Winter 2025.</p>		
<p>Action T21 COE to develop policies and priorities around installation of publicly accessible charging stations in the right-of-way, including electric bike charging. COE will perform a study to determine needs and preferred locations for charging infrastructure. This action is scheduled to be completed between 2023 and 2025.</p>	PW			Expected to be complete by 2022			✓			✓				<p>Funded through PWE. This action is slated for completion in 2022.</p>		

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Action T22 COE to encourage taxi and transportation network companies (such as Lyft and Uber) to utilize EVs in their fleet and develop charging infrastructure. The City will explore implementing incentives and expedited permitting processes for EVs in these types of fleets. This action is scheduled to be completed between 2023 and 2025.	PW			Expected to be complete by Winter 2025				✓		✓					Funded through PDD and PWE.. This action is slated for completion by Winter 2025.	
Action T23 COE will explore ways to promote use of micromobility options such as e-scooters and e-bikes. This action is scheduled to be completed between 2023 and 2025.	PW	✓		Expected to be complete by Winter 2025				✓		✓					Funded through PWE.. This action is slated for completion by Winter 2025.	
Action T24 COE and EWEB to increase the number of EV-centered ride and drive consumer education events. This action is scheduled to be completed between 2023 and 2025.	PW			Expected to be complete by Winter 2025				✓		✓					Funded through EWEB and PWE.. This action is slated for completion by Winter 2025.	
Action T25 COE to set targets for EV adoption by 2035. Publish status of EV adoption in Eugene annually on the City's website by 2021.	PW			Expected to be complete by Winter 2021				✓		✓					Funded through PWE. This action is slated for completion by Winter 2021.	
Action T26 COE organization to adopt an EV First procurement policy. There has been an informal practice to consider EV in the replacement of retiring fleet vehicles since 2019. Through an adopted EV First policy, 100% vehicles that become due for replacement, will be evaluated for GHG reduction opportunities. The City's Fleet Board will recommend any vehicle with an available option in the respective class for replacement with either full electric, plug-in hybrid, standard or after-market hybrid. Fleet Board will only approve exceptions to this policy if it can be shown that an EV or hybrid option cannot meet the business need. This action is a part of the Internal Climate Action Plan.	PW		✓					✓	✓	Ongoing	✓					
Action T27 COE to conduct an electric car share pilot program at one or more affordable housing sites in Eugene. This action is scheduled to be completed between 2021 and 2025.	PW			Expected to launch 2021/2022				✓		✓					Funded through PWE, EWEB, Forth, SVDP. Planned launch date 2021/2022.	
<i>Additional Transportation Actions</i>																
Action T28 COE to work towards creating a digital smart trips application that would display all modes of travel by segment type, as well as public parking options, for a planned trip in our community. The vision for the application is that it would show all transit, driving, biking, and walking options between two points, as well as combinations of various modes of travel, carbon emitted, calories burned, and cost of travel. Further, it would allow a user to prioritize their trip to focus on options such as saving time, saving money, or saving the environment. The project is expected to be completed in 2023.	PDD			Expected to be complete in 2023.							✓	✓			City of Eugene and University of Oregon, and Lane Transit District have partnered to create this app. LTD received \$600,000 of Statewide Transportation Improvement Funds (STIF) to fund the app. The potential for greenhouse gas reductions is high if the community uses available resources to make different choices in their transportation methods. This is scheduled for completion in 2023.	
Action T29 COE to explore options to create community wide broadband. Modeled after the downtown dark fiber project, this action would provide greater accessibility for families and residents to work and learn remotely. The ability to work remotely with a high speed and affordable network connection would allow more remote work options and potential to decrease daily commuting.	PDD			Expected to be complete in 2022.								✓			State of Oregon designated \$150,000 from its federal ARPA allocation. This action is schedule to be completed in 2022.	
Action T30 COE to implement Internal Fleet Climate Action Plan. This plan includes measures to help the City work towards carbon neutrality including procuring EVs and using alternative fuels like renewable diesel.	PW	✓			 							✓			This action represents proportionately high reductions for the COE organization, but relative low for the community. Costs are high in aggregate but procurement happens on a rotating basis.	
Eugene Climate Collaborative Actions																

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Action T31 LTD will continue to support commuting options with low-income, student, and group transit passes to increase transit accessibility across all income levels.	LTD	✓									✓			✓	Group pass program provides ~\$1.9M per year. Funding for Student and Low-Income passes came from STIF dollars. There is high social benefit to this action, but a lot of variables in consideration of it's impact on GHG reductions.	
Action T32 LTD to offer programs that make taking transit more convenient like touch pass, Transportation Options, transit host program, and Mobility on Demand.	LTD	✓									✓			✓	TouchPass is budgeted at \$730,000 over 10 years (\$550,000 state, \$180,000 general fund)	
Action T33 LTD is completing the Transit Tomorrow planning project to evaluate how it can increase frequency of service and ridership on transit. The goal of the project was to find ways to better serve riders throughout the community, with a focus on increasing frequency, so more people would have access to 15-minute service. The planning process was expected to be completed in 2020 but is on pause due to constraints on community engagement and budget changes resulting from the COVID-19 Pandemic.	LTD														The Comprehensive Operations Analysis project was put on hold as COVID-19 shut down our community.	
Action T34 Safe Routes to School (SRTS) program offered at Bethel and 4J that works to create safe, easy, and fun ways for kids to walk, bike, skate, scoot, bus or carpool to school. SRTS has a goal to reach 85% of Eugene-Springfield public schools by 2021 and eventually 100% of schools. See page 33 for a list of SRTS program goals. COE Recreation provides bicycle safety education at Bethel and 4J schools to support the SRTS programs and COE Transportation Planning works with the SRTS programs on creating safe walking and biking routes to school.	4J/Bethel	✓							✓	✓					Funded by Air Quality and Congestion Mitigation grants, federally; small portion from Springfield schools. Program presence in 85% of Eugene/Springfield Schools by 2021. Funded through 3-year grant cycles federally; funding is fairly stable, but no sense of what will happen to CMAQ funds into a future of decreased tax revenue, or where SRTS programs fall as a regional priority.	
Action T35 PeaceHealth Rides bike share program will continue to look for opportunities to expand its bikeshare footprint, both in terms of geographic area served and number of bikes available. The program was launched in Spring 2018 and currently offers a base of short-term bike rental options for trips in the City's core, with 300 bikes and 40 stations. The program will also look for more opportunities to provide access including discounted rides for people from disadvantaged communities.	COE PW	✓							✓	✓	✓				Now a COE action.	
Action T36 EWEB will focus on an evolution of targeted market transformation programs and efforts to increase EVs in the community, including dealership engagements and incentives for test drives, city-wide EV sharing, education campaigns, and ride and drive events.	EWEB			✓					✓						This action is funded through the Clean Fuels Program. This end in 2025, but will likely be expanded through 2035. Furthered support for EV adoption has the potential for higher GHG reductions.	
Action T37 EWEB to incentivize commercial and residential charging infrastructure and to support regional efforts to expand available charging network, including EWEB-owned stations.	EWEB			✓					✓						This action is funded through the Clean Fuels Program. This end in 2025, but will likely be expanded through 2035. Furthered support for EV adoption has the potential for higher GHG reductions.	
Action T38 EWEB to explore ways to increase EV and micro electric mobility access for underserved populations through efforts and programs including partnerships with key agencies, community grants, culturally appropriate outreach and education, and non-ownership models like multi-family EV sharing.	EWEB			✓					✓						This action is funded through the Clean Fuels Program. This end in 2025, but will likely be expanded through 2035. Furthered support for EV adoption has the potential for higher GHG reductions.	
Action T39 LTD to expand electrification of bus fleet as existing fleet is retired. LTD successfully tested two electric buses in revenue service throughout 2019. LTD has purchased (11) 40' battery electric buses to integrate into its fleet. The eleven battery electric buses will be delivered in 2021 and are replacing older, less efficient diesel buses.	LTD			✓					✓	✓					This action is funded by Federal, Regional and General Funds.	

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<p>Action T40 LCC, Lane County, and EWEB continue to invest in fuel efficient motor pools. Public agencies are focused on purchasing electric vehicles when practical and high efficiency hybrids or diesels when necessary. These vehicles require less maintenance and have lower operating costs than the vehicles they are replacing.</p>	Varied	✓													Funding for this action varies by agency.	Climate Mitigation: High Medium Low Estimated Project Cost: High Medium Low Funded: Total In Part No
<p>Action T41 As part of LCC's actions to reduce GHG emissions from student commuting and in response to student demand, Lane Community College continues to increase online class offerings. In addition, co-benefits of implementing the TSP include a reduction in emissions from LCC commutes.</p>	LCC	✓								✓				Funding for increasing the offerings on online classes comes from LCC's General Fund.		
<p>Action T42 4J has made investments in higher efficiency buses replacing all of the older buses. The fleet includes a mix of propane, gas and diesel vehicles. The diesel engines use 99% renewable diesel fuel (R99) and are all equipped with exhaust treatment systems.</p>	4J	✓										✓		Bond 20-297 in 2018		
<p>Action T42 Bethel is investing in higher efficiency buses through their transportation contractor First Student. Older, less-efficient buses are being replaced by clean diesel engines.</p>	Bethel	✓														
Building Energy See Legend column for Climate Impact and Project Cost and Funding key																
City of Eugene Actions																
<p>Action B1 COE and NWN are currently working on a new franchise agreement with the intention to decrease community wide emissions associated with natural gas. The agreement is expected to be completed in late 2020. Details will be added to Eugene's list of climate commitments once the agreement is finalized.</p>	COE - CMO	✓		Franchise agreement consideration in Fall 2021. With PUC approval, SB 844 project to move forward in 2022.		Potential for equity benefits		✓						✓	GHG impact is unknown at this time. City Council will consider the Northwest Natural Franchise Agreement in Winter 2022. In addition, NWN is creating a voluntary emissions reduction program using SB 844. They anticipate filing that project with the Oregon Public Utilities Commission in late 2021 or early 2022.	
<p>Action B2 COE to report to City Council different options and funding strategies to support programs for low income EWEB and NWN customers and/or support other loans for small home improvements required to qualify for utility energy efficiency programs by 2021. This action leverages existing programs, with the goal of minimizing administrative costs.</p>	COE - CMO			Expected completion by Fall 2021		Potential for equity benefits		✓							Report to be completed with existing FTE; if Council moves forward with projects, the cost is scalable. Funding needs beyond the initial report are dependent on Council direction.	
<p>Action B3 COE to research and report to City Council potential regulatory options related to advancing energy efficiency and carbon reduction through rental housing standards by end of 2023.</p>	COE - CMO			Expected completion by Fall 2023				✓				✓			To be completed Fall 2023. Greenhouse gas reductions would be higher if rentals moved towards electrification.	
<p>Action B4 COE to implement a voluntary Home Energy Score in partnership with the Oregon Department of Energy by 2021. COE to research and report to City Council on funding and implementation strategies for a mandatory program Home Energy Score Program and Commercial Benchmarking Program.</p>	COE - CMO	✓		Report back to Council Fall 2021				✓							Report to be completed with existing FTE; mandatory program implementation would require new ongoing FTE. Funding for mandatory program is TBD. Voluntary program complete: https://www.eugene-or.gov/4714/Home-Energy-Score-Program .	

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<p>Action B5 COE to participate in state-wide coalition to seek statutory authority for cities to adopt the state's high-performance Reach Code meeting 10% above adopted state-wide building code as the local base code.</p>	COE - CMO		✓	See notes				✓							Participated in 2021 leg session; bill did not pass; will revisit in future leg sessions. IGR Manager and Sustainability Manager support this work.	Climate Mitigation:	
<p>Action B6 COE implementing facilities updates including conservation and efficiency improvements as part of the organization's Internal Climate Action Plan. Current projects include the renovation of Campbell Community Center and Echo Hollow Pool expected to be completed in 2020 and 2021 respectively.</p>	CS - Facilities	✓									✓		✓	Pre-approved bond funding and CIP budget. Funding and progress varies by project and equipment replacement schedule. This action represents proportionately high GHG reductions for the COE organizations, but relatively low for the community.			
<p>Action B7 COE to update existing Green Building policy for City buildings to focus specifically on heavily decreasing Energy Use Intensity when designed, increased energy efficiency investments, on-site renewable energy production, and total ghg lifecycle reductions by January 2022.</p>	CS - Facilities			Expected completion date January 2022							✓			Funded by Fund 618 (Facility Rates).			
Eugene Climate Collaborative Actions																	
<p>Action B8 EWEB implementing adopted GHG reduction goals, which call for a reduction of utility GHG emissions by 25 percent below 2009 levels by 2020; the reduction of fossil fuel use by 50% by 2030, and for EWEB operations to be carbon-neutral by 2050.</p>	EWEB	✓		✓								✓		2020 - 25% reduction of GHG levels from 2009; 2030-50% reduction of fossil fuel use; 2050 - operations are carbon neutral. This action represents proportionately high GHG reductions for the COE organizations, but relatively low for the community.			
<p>Action B9 EWEB to complete an Electrification Impact Study in 2020-2021. The study will explore the impacts of widespread electrification on our community. In this study, EWEB will hypothesize various electrification scenarios and assess potential impacts to power supply, demand, local infrastructure, and community greenhouse gas (GHG) emissions.</p>	EWEB			✓								✓					
<p>Action B10 EWEB working with community partners to support building upgrades with incentives for smart electrification and energy efficiency.</p>	EWEB	✓										✓					
<p>Action B11 EWEB and NWN limited income assistance programs and energy conservation education programs, which provide eligible customers with rebates and incentives to lower and pay their bills.</p>	EWEB + NWN	✓									✓		✓	Costs are high for EWEB and medium for NWN. NWN: To our knowledge, there is no funding needed for these programs for the City of Eugene budget. With regard to the overall estimate of project costs: There are a variety of different funding streams - OLIEE (Oregon Low Income Energy Efficiency), WAP (Weatherization Assistance Program), LIHEAP (Low Income Energy Assistance Program), GAP (Gas Assistance Program, OLGA (Oregon Low Income Assistance). Additionally, there is new funding during the pandemic. Some are administered by NW Natural and some are administered by others and these funds total many millions each year. Report backs at the City level are not available at this time. Though we note that some of these programs that are focused on weatherization would have some small amounts of GHG impact over time. Calculation does not currently include what may be possible under an SB844 program.			

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Action B12 EWEB's commitment to conservation includes meeting all new base load growth through acquiring conservation rather than new energy resources. Each year, the utility targets between 1.4 and 1.6 MW for acquisition, dedicating appropriate budget and human resources to those targets.	EWEB	✓			Dependent on source of power		●		🟡			✓			Greenhouse gas reductions would be low if calculated using EWEB's utility specific emissions factor, but high if using the Northwest Power Pool's average regional factor.	
Action B13 Once fully deployed, EWEB's advanced metering program will facilitate demand side management programs with customers to reduce energy use during peak periods. EWEB has begun consumer education on the value of reducing energy use during peak periods and plans to develop programs to help consumers shift energy use off-peak through a combination of technology and pricing signals.	EWEB	✓			Dependent on source of power		●		🟡			✓			Greenhouse gas reductions would be low if calculated using EWEB's utility specific emissions factor, but high if using the Northwest Power Pool's average regional factor.	
Action B14 NWN Smart Energy Program allows customers to purchase carbon offsets equal to the amount of the carbon dioxide created by their natural gas use.	NWN	✓			🟡 With notes		🟡 With notes		🟡			✓			Funded by participating customers. Legend does not provide insight into the ROI of a program for cost versus carbon saved. For example, offsets are a relatively inexpensive purchase on a per unit basis per ton of carbon saved, but given how the legend is set up, there is no way of showing that calculation. There is also no cost to the City for this program, we would want to explore if education is possible through city communication channels. Calculation does not currently include offsets under an SB844 program.	
Action B15 NWN partners with the ETO to offer energy efficiency programs to natural gas customers.	NWN	✓			🟡		🟡		●			✓			Funded by participating customers. To our knowledge, there is no funding needed for these programs for the City of Eugene budget. Calculation does not currently include what may be possible under an SB844 program.	
Action B16 In order to produce Renewable Natural Gas (RNG), Metropolitan Wastewater Management Commission (MWWMC) is building biogas purification facilities and a pipeline to connect to NW Natural's utility grid. Construction is expected to begin in 2020 with a target completion in 2021.	NWN/MWWMC			✓	🟡		●								To be completed Fall 2021.	
Action B17 Lane Community College's plans to continue to increase building energy efficiency by replacing heating, ventilation and air conditioning systems in selected buildings. Additional improvements to campus buildings are planned for the near future such as upgrading lighting systems, adding better insulation and replacing single-pane windows. Lane Community College is pursuing LEED v4.1 for Existing Buildings certification for its Florence Center. This third-party certified performance-based project will result in increased overall performance of this Center with annual performance verifications associated to it. Expected date of completion is 2022.	LCC			✓	🔴		●		●				✓		To be completed Fall 2022. Greenhouse gas reductions impact are relatively low within CAP2.0 scaling but would likely be greater if all electric on renewables rather than only energy efficiency.	
Action B18 UO to implement UO Climate Action Plan updates which includes actions to reduce emissions from buildings. Recent accomplishments include reinsulating the steam tunnel, establishing and filling an energy manager position and relaunching the energy revolving fund. Upcoming work includes a study to identify low carbon heating alternatives to steam made from natural gas for our campus.	UO	✓			🟡		●		🔴						Funding source TBD. Work is ongoing.	
Action B19 UO implementing the revised Oregon Model for Sustainable Development requiring new capital projects to achieve at least LEED Gold certification, must be at least 25% more efficient than 2014 Oregon Energy Code requirements, and will foster social equity in the design and construction of campus projects.	UO	✓			🔴		●			✓			✓		Major construction projects are funded with a mix of private donations and state bond authorization. Current GHG emissions reductions are estimated as low to medium.	

Action	Dept/Agency	Action Current Status			Climate and Community Impact		Estimated Project Cost			Budget					Comments	KEY
		In progress	Completed	To be completed	Mitigation	Adaptation	Cost	FTE Only	Funded	Grant	Fund	Rate Payer	Bond	Other		
<p>Action B20 UO to continue to offer student program to complete energy audits using the US Department of Energy Home Energy Scoring Tool through the Student and Community Outreach for Renter Efficiency Program (SCORE), a partnership with COE, EWEB, and UO.</p>	UO	✓												✓	to date funding comes from COE, EWEB, and UO	KEY Climate Mitigation: High Medium Low
<p>Action B21 Bethel has entered into an Energy Performance Contract with Ameresco. They are identifying improvement projects that can be repaid through annual energy savings, such as lighting, HVAC systems, and boilers. The District is taking out a \$3.5 million loan at 2.3%, with guaranteed annual energy savings of more than \$215,000, so the improvements are designed to pay for themselves while lowering our energy consumption.</p>	Bethel														While GHG reduction impacts aren't high, lowering energy consumption has important co-benefits	
<p>Action B22 In 2018, Eugene voters approved over \$314M in bond funding for 4J Schools. Numerous energy efficiency and building shell improvements are funded across the system, with new schools being planned for Edison Elementary School, North Eugene High School, Camas Ridge Elementary, and major expansion of Gilham Elementary. New construction projects feature state of the art energy efficient design and green building features.</p>	4J	✓											✓			
Fugitive Emissions See Legend column for Climate Impact and Project Cost and Funding key																
City of Eugene Actions																
<p>Action F1 COE to operate and promote the Love Food Not Waste commercial food waste collection program. This partnership among local garbage haulers, commercial composters, the City of Eugene and area businesses makes sure that food scraps turn into valuable compost instead of taking up space in our landfill. Business can sign up for Love Food Not Waste through their garbage hauler.</p>	COE-WPGB	✓									✓				Greenhouse gas reductions are low-medium based on CAP2.0 mitigation scaling. Funded by Fund 505, Solid Waste Fund.	KEY Climate Mitigation: High Medium Low Estimated Project Cost: High Medium Low Funded: Total In Part No
<p>Action F2 COE to operate and promote the Curbside Compost Program. As of October 2019, Eugene customers who have residential garbage service have the option to put food waste in their yard debris bin instead of in the garbage.</p>	COE-WPGB	✓									✓				Funded by Fund 505, Solid Waste Fund.	
<p>Action F3 COE to explore methods to capture biogas from organic waste and use it for renewable transport fuel. By 2025, COE will scope out the potential pathways to implement this action, including cost estimates. (CC Action)</p>	COE-WPGB			Scheduled for completion by 2025				✓			✓				This is also work that partners in Lane County are exploring. Funded by General Fund. Scheduled to be completed 2025.	
<p>Action F4 COE to convene community partners who use products with large amounts of refrigerants by the end of 2021 to identify market-based and regulatory options to reduce community-wide refrigerant gas leaks from appliances like air conditioners, refrigerators, and commercial refrigeration systems. (CC Action)</p>	COE-CMO			Project will kick off in Fall 2021 and to be completed in 2022.							✓				Project will kick off in Winter 2022 and will be completed in 2022. Funded by General fund. Greenhouse gas reductions are estimated as medium based on baseline emissions in community inventory.	
<p>Action F5 COE will continue to use warm-mix asphalt, a low-carbon alternative that has become the default asphalt sold in the region, due in part to COE leadership. Warm-mix pavement materials are mixed and placed on the road at lower temperatures than traditional hot-mix. Benefits of the reduced temperature include cutting fuel consumption and decreasing the production of emissions. Engineering and construction benefits include better compaction of pavements; the ability to pave at lower temperatures, extending the paving season; and the potential to be able to recycle at higher rates.</p>	COE-PW	✓											✓	✓	Funded by Street Repair Bond, Local Gas Tax	

Action	Dept/Agency	Action Current Status			Climate and Community Impact		Estimated Project Cost			Budget					Comments	KEY			
		In progress	Completed	To be completed	Mitigation	Adaptation	Cost	FTE Only	Funded	Grant	Fund	Rate Payer	Bond	Other		Climate Mitigation:			
Action F6 Due to the economic impacts of COVID-19, the disproportionate impact of hunger on low income communities, and the highest greenhouse gas savings of food waste diversion, COE to prioritize food rescue programs at local level.	COE-WPGB			Scheduled for completion by 2023							✓				Funded by Fund 505, Solid Waste Fund. While this action may not represent significant GHG reductions, there is a high equity benefit. Scheduled for completion 2023.				
Action F7 COE to continue to explore adopting a franchise-system of residential solid waste collection with the goal of reducing hauler fleet-generated greenhouse gases, route redundancy and road wear.	COE-WPGB			Scheduled for completion by 2025				✓			✓				Scheduled to be completed 2025. Funded by Fund 505, Solid Waste Fund. Annual hauler emission are about 2500 MT CO2e annually.				
Action F8 COE will continue to work toward the Council directed goal of increasing the volume of waste diverted from landfill from internal operations and facilities from current levels to at least 90% by 2020 compared to 2016. PDD has achieved this goal and will work with other departments to implement 90% diversion by 2030 through the Internal Zero Waste program.	COE-WPGB			Scheduled for completion by 2030							✓				Scheduled to be completed 2030. Funded by Fund 505, Solid Waste Fund.				
Eugene Climate Collaborative Actions																			
Action F9 Lane County to develop improved county-wide data collection and reporting system to assess effectiveness of programs and policies, e.g. participation rates of yard debris, commercial, food waste and multifamily recycling programs by city.	Lane County			✓										✓	Lane County Waste Management System Benefit Fee				
Action F10 Lane County plans to convene community partners to explore options related to the development of a waste processing facility to divert organics from the waste stream toward an anaerobic digestion/ biogas facility.	Lane County			✓										✓	Lane County Waste Management System Benefit Fee				
Action F11 Lane County to Perform annual audits of Material Recovery Facilities (MRF) to assess performance and maximize recovery.	Lane County			✓										✓	Lane County Waste Management System Benefit Fee				
Action F12 Lane County to support product stewardship and extended producer responsibility legislation and policy creation at state and federal level.	Lane County			✓				✓						✓	Lane County Waste Management System Benefit Fee				
Action F13 Lane County to improve Multifamily recycling access. Prepare for state rule change that all multi- family tenants have opportunity to recycle by 2025.	Lane County	✓												✓	Lane County Waste Management System Benefit Fee. Scale of action would impact GHG reduction capacity. Scheduled to be completed 2025.				
Action F14 Lane County to increase Accessibility for non-English speakers in all program functions, materials and outreach.	Lane County			✓	Positive equity benefit.									✓	Lane County Waste Management System Benefit Fee				
Action F15 Lane County to develop business waste prevention, buy recycled campaigns focused on high impact material types or business sectors.	Lane County			✓										✓	Lane County Waste Management System Benefit Fee				
Action F16 UO to continue to promote waste reduction across campus thru the UO Zero Waste Program. The Program provides state of the art waste reduction and recovery opportunities to campus while reducing greenhouse gas production.	UO	✓													Funded by UO.				

Action	Dept/Agency	Action Current Status			Climate and Community Impact		Estimated Project Cost			Budget					Comments	KEY
		In progress	Completed	To be completed	Mitigation	Adaptation	Cost	FTE Only	Funded	Grant	Fund	Rate Payer	Bond	Other		
<p>Action F17 Bethel to increase composting through implementing district wide food waste collection for all 11 school facility kitchens as of 2019, and 4J School District increased collection of food waste from 12 school kitchens in 2018-19 to all 33 4J district schools and facilities in 2020. Cafeteria food waste collection in 4J has been implemented in some schools and a phased implementation of cafeteria food waste collection for all 4J schools is planned, starting with elementary schools in 2020-2021, and adding middle schools in 2021-2022.</p>	4J + Bethel	✓								✓					Bethel and 4J receive grant funding for Love Food Not Waste implementation and reimbursement for hauler service expenses. 4J - 33 kitchens by 2020, all elementary cafeterias by 2022, middle schools by 2023. PK-12 by 2024.	KEY Climate Mitigation: High Medium Low Estimated Project Cost: High Medium Low Funded: Total In Part No
Consumption																
See Legend column for Climate Impact and Project Cost and Funding key																
City of Eugene Actions																
<p>Action C1 COE will continue to host Fix It Fairs in partnership with the ToolBox Project to help consumers repair goods and instruct participants how to make their own repairs. Fix It Fairs help consumers avoid purchasing more goods. Repair services are available for a variety of products, including small appliances like lamps and toasters, tools, clothing and textiles, small electronics, home and garden tools, furniture, and toys.</p>	COE-WPGB	✓								✓					While the GHG reduction of this action may be low overall, the cultural and equity impact is an important component. Funded by Fund 505, Solid Waste Fund.	
<p>Action C2 COE will continue to develop and improve GHG tracking and reporting in the Capital Improvement Program (CIP), which was first incorporated in 2019. The goal of this action is to provide decision-makers with quality information about the GHG impact of material and design choices so that they can better incorporate considerations about the impact of climate change into the decision-making process. The CIP is updated every two years.</p>	COE-PW	✓								✓					Estimated project costs are not reflective of the capital projects, but the evaluation of GHG reducing measures for CIP projects. Funding is incorporated into most operating budgets.	
<p>Action C3 COE will continue to develop a comprehensive waste and consumption public educational campaign touching on topics such as recycling, food waste and low-impact consumption practices.</p>	COE-WPGB	✓								✓					While the GHG reduction of this action may be low overall, the cultural and equity impact is an important component. Funded by Fund 505, Solid Waste Fund.	
<p>Action C4 By early 2022, COE to determine most effective policy and program pathway(s) to require construction and demolition waste materials to be sorted for reusable or recyclable materials.</p>	COE-WPGB			✓											Funding is TBD for this action.	
<p>Action C5 COE will investigate the increased use of substitute supplementary cementitious materials (SCMs) for Portland cement in all capital construction projects and provide a target level of use by 2021</p>	COE-PW		✓							✓					Completed. City Engineer adopted updated standard specifications in April 2021. (min 30% SCM for all PCC; depending on type of SCM, allowed up to 50%). Funded by existing capital budgets.	
<p>Action C6 COE to continue to use 50% supplementary cementitious materials (SCMs) on in-place reclamation projects and will commit to evaluating increased standard SCM content.</p>	COE-PW	✓								✓					Funded by existing capital budgets.	
<p>Action C7 COE to continue to include to specify the materials to be used and not used in contractor proposals for construction products that include concrete and asphalt. COE to explore the use of Environmental Product Declarations (EPDs) and other reporting mechanism with the end goal of documenting and verifying the environmental benefits of products used in concrete and asphalt mixes.</p>	COE-PW	✓								✓					Funded by existing operational budget.	
Eugene Climate Collaborative Actions																
<p>Action C8 4J is shifting to a self-operated student meal service that will explore food purchasing options to develop relationships with local food suppliers, farms, and services. The program seeks to find creative ways to allow families and children meet their nutritional needs while reducing waste and reducing carbon intense foods with a wide variety of options.</p>	4J	✓												✓	Greenhouse gas reductions would be higher if this includes substituting non-meat protein options. Funded by nutrition services.	

Action	Dept/Agency	Action Current Status			Climate and Community Impact		Estimated Project Cost			Budget					Comments	KEY
		In progress	Completed	To be completed	Mitigation	Adaptation	Cost	FTE Only	Funded	Grant	Fund	Rate Payer	Bond	Other		
Action C9 Bethel works with the Farm to School program and is a leader in providing locally-sourced fresh fruit and vegetables in its school meals. Bethel School District also operates the Bethel Farm, a working farm that serves as an outdoor classroom while raising produce for school meals and local food pantries.	Bethel															
Action C10 Lane County Waste Management program provides multiple recycling and reuse opportunities for a variety of products including paper, glass, cardboard, metals, motor oil, some plastics, yard waste, and construction and demolition waste.	Lane County	✓												✓	Funded by the Lane County Waste Management System Benefit Fee	
Action C11 PeaceHealth is updating food service requirements so that all paper, Styrofoam and plastic products will be replaced with 100% compostable, plant-based disposable items at their food services sites at both Sacred Heart Medical Center campuses. This includes all utensils, plates, cups and the dome lids used for to-go coffee. They also selected a local coffee vendor, Global Delights.	Peacehealth		✓								✓				Opportunities to utilize local vendors continue to be explored. Covid safety precautions required return to some noncompostable packaging and will remain in place until pandemic subsides.	
Action C12 Lane Community College has implemented a sustainable procurement initiative that includes the development and adoption of a sustainable purchasing policy in alignment with LEED for Existing Building guidelines from the USGBC for the Florence Center by the year 2021. Sustainable Purchasing Policies for other LCC Satellite centers will follow until a college-wide policy is adopted.	LCC			✓				✓			✓				Funding for this comes from the General Fund for staff time and materials and supplies purchases	
Resiliency																
See Legend column for Climate Impact and Project Cost and Funding key																
City of Eugene Actions																
Natural Hazard's Mitigation Plan																
Action R1 COE to pursue a water reuse partnership with MWMC as part of the community effort to prepare for drought. Demonstrations are expected to begin in 2022. MWMC will add facilities to the wastewater treatment plant to produce the first ever stream of Class A recycled water - the highest quality recycled water class in Oregon, suitable for all water uses except drinking. Initial uses will include local sand and gravel operations, City street tree watering, and 100% of landscape irrigation at the wastewater plant.	MWMC			Begin 2022 –construction start, 2023 final testing 2024 full implementation,							✓		✓		Begin 2022 –construction start, 2023 final testing 2024 full implementation. Recycled water ensures a water source through drought to establish and maintain green infrastructure which sequesters carbon, reduces heat island impact, and other climate benefits. Without grants, MWMC pays 100% through user rates and fees (debt service and SDCs). With grants, shooting for 50% of project paid via state and federal funds.	
Action R2 COE to research and incorporate extreme weather safety awareness into the Cities' public outreach program by 2023.	COE-CS			Scheduled for completion by Fall 2023				✓							Funded through Eugene and Springfield Emergency Management. Scheduled for completion Fall 2023.	
Action R3 COE to actively seek funding to update the Eugene-Springfield floodplain maps by 2030 focusing on the Willamette River through Eugene and the Mill Race, Willamette River through Glenwood, and the 42nd Street Levee Seclusion Zone in Springfield.	COE-CS			Scheduled for completion by Fall 2030				✓			✓				Scheduled for completion Fall 2030.	

KEY

Climate Mitigation:

High

Medium

Low

Climate Adaptation:

High

Medium

Low

Estimated Project Cost:

High

Medium

Low

Funded:

Action	Dept/Agency	Action Current Status			Climate and Community Impact		Estimated Project Cost			Budget					Comments	KEY	
		In progress	Completed	To be completed	Mitigation	Adaptation	Cost	FTE Only	Funded	Grant	Fund	Rate Payer	Bond	Other			
Action R4 COE to evaluate stormwater design standards taking into consideration climate change modeling by 2022. It is known climate change will affect our weather. Rain is expected to become less frequent, but with more intense showers. This is expected to change flooding traditionally seen in this area and tax the local stormwater system event further.	COE-PW			Scheduled for completion by Fall 2023							✓				The climate impact of the work to complete an updated model of the system is "medium." The climate impact of completing the capital project is "high." This work is funded Stormwater fund - part of the stormwater basin plan update which is included in the adopted FY22-27 CIP. There will be a concerted effort to incorporate equity-specific criteria into our stormwater capital project prioritization criteria in advance of the FY24-29 CIP process. Scheduled to be completed Fall 2023.	Climate Mitigation: Total In Part No	
Action R5 COE to update the Eugene-Springfield Wildlife-Urban Interface (WUI) plan and address access routes by 2025.	COE-CS			Scheduled for completion by Fall 2025				✓		✓				Scheduled for completion Fall 2025. This work is funded by ESF funds.			
Action R6 COE to utilize relevant vulnerable populations maps, developed for the Lane Livability Consortium, develop an outreach plan to engage vulnerable populations to be two weeks ready with emergency supplies by 2023.	COE-CS			Scheduled for completion by Fall 2023				✓		✓				This work is funded through the Eugene and Springfield Emergency Management. Scheduled for completion Fall 2023.			
Action R7 COE to continue to sponsor the Community Emergency Response Team (CERT) training to citizens within the Eugene/Springfield metropolitan area. CERT trains citizens to be prepared to respond to emergency situations within their communities.	COE-CS	✓						✓		✓				This work is funded through the Eugene and Springfield Emergency Management.			
Action R8 COE Parks and Open Space is developing a water conservation and drought management plan. COE Parks and Open Space maintains a Salmon Safe Certification, including implementing recommendations from the certification which help link land management practices with the protection of water quality and imperiled native fish.	COE-POS	✓								✓		✓		Project costs: Water Conversation and Drought Management Plan - Low; Implementation of certification recommendations - High. This work is funded by Stormwater fund; irrigation assessment and upgrades from parks bond. Water Conversation and Drought Management Plan is complete; estimated project costs include both plan and certification recommendation implementation. in 5th year of 5 year certification, recertification incoming.			
Action R9 COE implementing the Comprehensive Stormwater Management Plan, a policy guide to help protect public health and safety, enhance fish and wildlife habitat, and reduce the risk of flooding.	COE-PW	✓								✓				There will be a concerted effort to incorporate equity-specific criteria into our stormwater capital project prioritization criteria in advance of the FY24-29 CIP process. This work is funded by the Stormwater Fund.			
Action R10 COE to use Oregon Department of Geology and Mineral Industries (DOGAMI) landslide maps to guide planning efforts including the Urban Reserves Project. The maps for the Eugene-Springfield area were last updated in 2018.	COE-CS	✓						✓		✓				This work funded by Eugene and Springfield Emergency Management and Planning and Zoning.			
Urban Forestry																	
Action R11 COE to increase average city-wide urban tree canopy to 30%, the ideal for a community our size. Eugene currently has ~23% average tree canopy cover. Despite a steady decline over the last decade, the trend can be reversed with a focused replanting investment, infill program, stronger tree preservation and more tree planting on both public and private property. Increase canopy coverage by 3% in years 1-5 and 7% in years 5-10. Monitor progress annually.	COE-PW	✓		Ongoing through 2030						✓				This work funded by Operating funds from road and storm. Capital project budgets..The equity impact of prioritizing shade for historically underserved neighborhoods makes this impact high. Ongoing thorough 2030.			
Action R12 COE to track and work to maximize Ecosystem Services benefits of the urban forest. Establish baselines in 2020. Annually assess performance utilizing inventory and remote sensing data and tools such as i-Tree and Canopy Analytics to capture incremental progress, trends and outcomes after 10-years. Report on an annual basis to ensure the replacement of trees with future proof varieties that will thrive under the new conditions.	COE-PW			Scheduled to begin 2022						✓				This work funded by Operating funds from road and storm. To begin 2022.			

Action	Dept/Agency	Action Current Status			Climate and Community Impact		Estimated Project Cost			Budget					Comments	KEY
		In progress	Completed	To be completed	Mitigation	Adaptation	Cost	FTE Only	Funded	Grant	Fund	Rate Payer	Bond	Other		
<p>Action R13 COE to develop an updated Urban Forest Management Plan that clearly identifies the baseline conditions and trends, future goals, timelines, roles and responsibilities for different stakeholders, and general performance measures. Plan implementation will begin by July 2021.</p>	COE-PW			Scheduled for completion December 2021						✓					The equity impact of prioritizing shade for historically underserved neighborhoods and fire reduction in the hills makes this action's impact high. This work funded by Operating funds from road and storm. Scheduled for completion December 2021.	Climate Mitigation:
<p>Action R14 In 2019, COE was on a 15-year pruning cycle pace. Maximize the health of mature street trees and minimize loss by solidifying a best management practice 10-year pruning cycle by 2025 and maintaining it as canopy coverage increases. Create a dashboard that tracks performance in real time.</p>	COE-PW			Scheduled for completion by Fall 2025						✓					Proactive routing of preventative tree care significantly reduces fuel consumption. This BMP was achieved in FY20. Costs an average of \$500k annually, current budget is \$150k short. Our goal is to stabilize ongoing funding to maintain this cycle by 2025. Scheduled for Completion Fall 2025. This work funded by Operating funds from road and storm.	
<p>Action R15 Build on the momentum of the successful 2,021 for 2021 tree planting initiative by establishing a long-term regional collaboration and community engagement campaign to encourage planting on private property, including an annual tree give away.</p>	COE-PW			Scheduled for completion by Fall 2021						✓			✓		This work funded by Donations and operating funds from road and storm. Work to begin Fall 2021.	
<p>Action R16 Ensure the health of newly planted public trees by enhancing soil standards and including biochar specifications in all public tree planting and Green Infrastructure projects by 2022. Establish baseline and monitor health of newly planted trees throughout the establishment period to measure success.</p>	COE-PW			Scheduled for completion by Fall 2022						✓					This work funded by Capital project budgets - operating, funds from road and storm. The equity impact of this action is tied to the preservation of canopy coverage in historically underserved neighborhoods. Scheduled for completion Fall 2022.	
Eugene Climate Collaborative Actions																
<p>Action R17 UO's Partnership for Disaster Resilience (OPDR) provides natural hazard planning assistance to communities statewide. The Program's mission is to create a disaster resilient state. OPDR utilizes a service-learning model to provide natural hazard planning assistance to communities throughout Oregon. The program demonstrates how increased communication, coordination and collaboration between diverse partners can assist communities in reducing their risk from natural hazards.</p>	UO	✓													UO and partner communities and agencies	
<p>Action R18 Lane County Public Health continues to lead the community in infectious disease surveillance, tracking communicable disease outbreaks and managing the response.</p>	Lane County	✓							✓						Funded by State Block Grant for Public Health.	
<p>Action R19 PeaceHealth providing Incident Command System training sessions to increase the community's ability to respond in an emergency.</p>	Peacehealth	✓								✓					PeaceHealth regularly conducts emergency management exercises with our community partners. While COVID has limited PeaceHealth's ability to do this recently, exercises and other forms of engagement are still occurring, and will resume at an increased frequency after COVID subsides. This work funded by Emergency management operating budget.	
<p>Action R20 EWEB is installing emergency water stations at schools and public spaces around the region, with a goal to have at least five stations around the community. There are three stations that are operational and two more that are now under development with completion slated for the end of 2020. A new site on City property in south Eugene is now under exploration as a potential sixth emergency water station.</p>	EWEB	✓		✓							✓				Scheduled for completion 2023. Sixth site in development; looking for options for one more in SW Eugene.	

Action	Dept/Agency	Action Current Status			Climate and Community Impact		Estimated Project Cost			Budget					Comments	KEY
		In progress	Completed	To be completed	Mitigation	Adaptation	Cost	FTE Only	Funded	Grant	Fund	Rate Payer	Bond	Other		
<p>Action R21 MWMC partnership with EWEB in Pure Water Partners program, a new initiative designed to reward landowners who protect high quality land along the McKenzie River. The program assists EWEB in protecting water quality and helps avoid future water treatment costs.</p>	MWMC/EWEB	✓		✓						✓		✓			<p>Cost is high: High - Total project cost \$4,650,000 payable over 20-years to the TFT, our EWEB partner. Current estimate approaching \$9m. EWEB - Water rates, new watershed recovery surcharge and grants/ MWMC - MWMC funded with some grant funding assistance available however none currently secured (\$2.247m 5-year). The timeline for this project is ongoing: 20-years - Outline of McKenzie River Ranch riparian shade credit planting with PWP. MWMC expects full implementation in the next 10-20 years. This reflects input from both MWMC and EWEB; Carbon Sequestration by Vegetation: -259 MT CO2e (55-acre, 20-year carbon sequestration max). The period of rapid carbon sequestration in a riparian ecosystem is between year 30 and year 70. If carbon sequestration is estimated for a project life span of 100 years it changes the quantity significantly, from -259 MT CO2e (20 years) to -7,960 MT CO2e (100 years)</p>	
<p>Action R22 Lane County offers the Firewise Incentive Program to help landowners increase defensible space around structures. Residents who own a home in rural Lane County that is at risk to wildfire can apply for grants to help increase the survivability of their homes in the event of a wildfire.</p>	Lane County	✓								✓					<p>This work funded by Title III of the Federal Secure Rural Schools and Community Self-Determination Program - Section 601 of the Emergency Economic Stabilization Act of 2008, et seq. This action serves individuals and so the impact in relation to scale is low, however the impact to individuals and especially low-income or other-abled residents who need assistance in creating defensible space, would make this impact medium.</p>	
<p>Action R23 Lane County adjusting the floodplain management program to reflect changes in climate and effects of flooding.</p>	Lane County	✓												✓	<p>This work is funded by Floodplain Development Permit Fees. This action is hard to scale but rated high because information would benefit communities impacted by flooding.</p>	

CAP2.0 Implementation Plan Legend: Climate/Community Impact and Estimated Project Cost

Climate and Community Impact Scales

Climate - Mitigation

Estimate	Max Potential in 2030
High	>50,000 MT CO ₂ e annually
Medium	5,000 - 49,999 MT CO ₂ e annually
Low	< 4,999 MT CO ₂ e annually

Community - Adaptation

Estimate	Who is impacted, Scale of Impact and Duration of impact
High	Action promote equity, focusing on a need that is important to marginalized/frontline communities**, Impacts a system or entire community, has lasting impact
Medium	Action promotes equality, or equal benefit for everyone in the community; impacts organizations, groups or businesses; has some lasting impact
Low	Action negatively impacts marginalized/frontline communities**; has only individual-level impact; has limited lasting impact

**Frontline communities include: Black, Indigenous, People of Color, low income, people experiencing a disability, youth, seniors, and the unhoused.

Estimated Project Costs

Range	Scale
High	>\$500,000
Medium	\$51,000-\$500,000
Low	<\$50,000
FTE Only	No direct financial input