Costs	
of Capping Carbon	Of Climate Disruption
<ul> <li>DEQ &amp; E3 2017 Analysis of "Market Approach"</li> <li>16 modeling scenarios for OR C&amp;T</li> <li>GDP effect -0.08% to +0.19% (vs. historical OR GDP swings from -1.5% to +10.9%)</li> <li>Jobs impact from -0.07% (-1543 jobs) to +0.32% (+6578 jobs)</li> <li>PSU Study 2013</li> <li>When revenues returned to economy: (per 2013)</li> </ul>	<ul> <li>In Oregon</li> <li>2018 Wildfire: \$100 million (ODF/USFS 40/60 split) for firefighting; plus community economic losses (e.g., \$5 million wheat farmers' loss to Stateline fire)</li> <li>2017 Wildfire: \$51 million in lost tourism revenues (e.g., Ashland Shakespeare and Sisters Folk Festival smoke-caused cancellations)</li> </ul>
<ul> <li>PSU analysis of \$60/ton carbon price / Scenario C)</li> <li>Positive job growth (+7000 jobs)</li> <li>Positive labor income growth</li> <li>Slight reduction in output (- 0.3%)</li> <li>Distributional issues (but scenario includes revenue set-asides for low income and at-risk industry; and effects further mitigated if neighbors – CA, WA, BC – adopt comparable GHG regulation.)</li> </ul>	<ul> <li>Growing risks to OR:         <ul> <li>agriculture (\$4.8 B)</li> <li>ocean fisheries (\$200 MM)</li> <li>tourism (\$11.8 B/150,000 jobs)</li> <li>public health</li> <li>infrastructure (2800 road miles in 100-yr flood plain; rebuild costs \$250K to \$500MM/mile)</li> </ul> </li> </ul>
<ul> <li>CA/WCI Carbon Cap; Regional GHG Initiative (RGGI)</li> <li>Allowances auctioned 2012-2018</li> <li>Auction prices: \$10/T to \$15.31/T</li> <li>CA gets more "clean energy venture capital" than all other states combined</li> <li>CA and RGGI state economies growing faster than national average</li> <li>RGGI electricity <i>rates</i> down 1% (nat'l average down 2%); but \$220 MM customer <i>bills</i> <i>reduction</i> beats national averages (2015-17)</li> </ul>	<ul> <li>Nationally/Globally</li> <li>2017 Extreme Weather/Fire: \$160B loss (MunichRe)</li> <li>2018 Paradise CA / "Camp Fire": \$16B loss &amp; 86 lives (200 miles from CA/OR border)</li> <li>2018 Natl Climate Assessment estimates climate-driven losses of 1% to 10% loss in US GDP by 2100 identifies agriculture, manufacturing, supply chains, trade at risk \$ billions to relocate infrastructure</li> </ul>
<ul> <li>Utilities and Industry</li> <li>Wind (-67%), solar (-86%) costs down since 2000; lower than new gas, coal generation</li> <li>New electric vehicles available at <u>+</u> \$35K; with lower life cycle (fuel + service) costs</li> <li>New carbon-efficient process options for cement, aluminum production</li> <li>World Bank estimates that effective climate fixes (e.g., clean energy) would add \$1.8T to \$2.6T to global GDP</li> </ul>	<ul> <li>Utilities and Industry         <ul> <li>PG&amp;E (North CA) facing bankruptcy from utility-assisted wildfire; delivering rolling blackouts to customers</li> <li>Other bankrupted utilities from extreme weather: Entergy (New Orleans), ExGenTexas Power (Houston)</li> <li>Fed Reserve/Richmond finds climate change depresses overall US GDP growth rate, with negative impacts to housing, services, finance, insurance</li> </ul> </li> </ul>