**Workgroup #1: Infrastructure**

Climate Change Adaptation: Planning for Climate Change at the Landscape Scale for Clatsop and Tillamook Counties, Oregon. September 16, 2014. Mtg #2.

Priority Risks:

- Sea level rise (SLR)

- Increased storm water/increased flooding/change in flood intensity and frequency (FL)

- Decline in late season stream flow/ drier conditions/reduced rainfall (LF)

- Increased coastal erosion (CE)

- Forest fire (FF)

Effects:

- Mudslides/ landslides (FL, SLR)

- water supply issues/lack of drinking water (LF, FL)

- roadway inundation and scour (SLR, FL, CE)

- coastal infrastructure failure (SLR, FL, CE)

- increased pressure on culverts and bridges (SLR, FL)

- wastewater treatment plant failure/levee failure/water intake supply damage (SLR, FL, LF)

- conflict between users and degraded aquatic habitat (LF)

- loss of Oregon beaches (CE, SLR)

\*\* Question about inclusion of energy sector participation and port authorities.

\*\* Forest fire were not discussed much.

\*\* most of the focus was on transportation and water supply

Management Objectives:

- Protect existing vulnerable infrastructure to ensure it is safe, functional, and resilient to climate impacts.

- Guide future infrastructure development away from areas of risk.

- Identify more funding for infrastructure improvements. Leverage funding between agencies and look for areas of overlap.

- Develop data and tools to inform areas of climate risk and current and future investments in public (and private?) infrastructure.

- Develop an evaluation method to determine where infrastructure should be maintained or abandoned while paying attention to and looking for c0-benefits.

\_ Incorporate climate change risks into everyday asset management.

- Actually implement management objectives

- Prioritize most valuable assets

- Enhance storage capacity for year round water supply

- Identify opportunities for infrastructure systems to build partnerships to increase capacity and coordinate adaptation responses. Develop redundancy

- Identify and monitor risks to infrastructure.

- Identify alternate routes. Do detour planning.

- Reduce or avoid climate risks by promoting improved planning, design, and engineering standards.