

UTC Project Information	
Project Title	Understanding Interdependencies Between Systems Towards Resilient Critical Lifeline Infrastructure in the Pacific Northwest
University	Oregon State University
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Funding Source(s) and Amounts Provided (by each agency or organization)	
Total Project Cost	\$21022.00
Agency ID or Contract Number	
Start and End Dates	Start: 09/16/2015 End: 09/15/2016
Brief Description of Research Project	<p>The objective of this proposal is to pursue a fundamental understanding of the interdependencies between systems towards resilient critical lifeline infrastructures in the Pacific Northwest for future smart cities. In pursuit of this goal, the research questions of this proposal are to</p> <ol style="list-style-type: none"> 1. Formulate the stochastic interdependency in various interdependent infrastructure network disruptions 2. Assess lifeline infrastructure interdependencies by identifying key links between each system and the other lifeline networks that interact with it. 3. Recommend measures to secure and recover interoperability and avoid damage related to collocation and loss of resources from other interdependent lifelines. 4. Address current shortfalls in the absence of performance measures that account for lifeline interdependencies.

<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	
<p>Web Links</p> <ul style="list-style-type: none">• Reports• Project Website	
<p>Project Type (basic, applied, advanced, etc)</p>	Applied