## UTC Project Information – Project 4.2

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| Project Title | Future-Proof Transportation Infrastructure through Proactive, Intelligent, and Public-involved Planning and Management |
| University | University of Connecticut (UConn), Storrs, CT |
| Principal Investigator | Jin Zhu, Ph.D. |
| PI Contact Information | Email: jzhu@uconn.edu<br>Phone Number: 860-486-0489<br>Address: 261 Glenbrook Road, Storrs, CT 06269 |
| Funding Source(s) and Amounts Provided (by each agency or organization) | Fast-Act (Federal- U.S. Dot): $126,150 (estimate) for 3 years; UConn (1:1 match): $126,150 (estimate) for 3 years |
| Total Project Cost | $252,300 (estimate) |
| Agency ID or Contract Number | 699A3551847101 |
| Start and End Dates | Oct 01, 2018 – June 30, 2022 |
| Brief Description of Research Project | The objective of this study is to future-proof transportation infrastructure (e.g., highways, railways, and bridges) through proactive, intelligent, and public-involved planning and management so that they can prepare appropriately, minimize impact, and capitalize opportunities in the face of future events, changes, and needs. Examples of future events, changes, and needs include climate change, sea level rise, and extreme weather in the northeast region. The ultimate goal of this study is to generate products that facilitate informed decision making in new and existing transportation infrastructure planning and management by incorporating future risks and opportunities into consideration. Therefore, new and existing transportation infrastructure can not only meet the needs for today, but also for the future. |
| Describe Implementation of Research Outcomes (or why not implemented)<br><br>Place Any Photos Here | We have developed a transportation infrastructure future-proofing taxonomy including important future-proofing factors and significant associations using natural language processing techniques applied to transportation infrastructure plans collected all over the country. |
| Impacts/Benefits of Implementation (actual, not anticipated) | The benefits of implementation will be determined towards the end of the research project. |
| Web Links<br>• Reports<br>• Project website | https://rise-lab.com/ |