Building Owners Assessment Tool Research Second Phase Seed Grant Proposal

### Abstract

Building Owners Assessment Tool (BOAT) Research initial phase has been successfully completed, resulting in the launch of the website <https://boat.be.uw.edu/> and the downloadable tool. This seed grant proposal seeks to build upon the achievements of the initial project, facilitating a more profound exploration of its core principles. The research goal is to extend the initial project and lay the groundwork for a prospective second phase of the Building Owner Assessment Tool Research.

### Research Rationale

The first phase of BOAT research focused on evaluating essential decision-making characteristics of owners that influence project delivery method outcomes. An industry-wide owner survey was conducted to gather insights into 7 decision-making profile characteristics (DMPC) and 9 Project Delivery Method Criteria (PDMC). The survey yielded 278 cases with 109 cases extracted for our initial analysis. The initial research phase identified positive and negative correlations between specific DMPC and (PDMC) across all project delivery methods, as documented in our final tool – The Building Owner’s Assessment Tool.

Nevertheless, due to resource and time limitations, certain pivotal aspects were overlooked during the project's initial phase. Notably, the intricate interrelationships among DMPCs and the associations between a typical owner's DMPC profile and project delivery methods were not explored. Addressing these gaps is essential to augment the existing findings and lay the groundwork for future research undertakings. Importantly, these inquiries can be explored utilizing the existing survey data.

The primary objective of this seed grant is to shed light upon the typical owner’s DMPC profile, thus furnishing the initial project outcomes and buttressing potential future research grants.

### Research Scope

The research scope of the seed grant project is centered around answering the following questions:

1. Are there identifiable typical owner’s DMPC profiles?

* If yes, what are the most common and recognizable owner’s DMPC profiles?
* If no, what decision-making profile characteristics tend to coexist in one organization (e.g., a formalized decision-making distribution and symbolic decision-making culture often co-exist in one organization)?

1. Do distinct project delivery methods align with specific owners’ DMPC profiles? In other words, do different project delivery methods correlate with varying owner’s DMPC profiles?

By analyzing the existing survey data, this project aims to deepen our understanding of the intricacies within owners' decision-making profiles and their connections to project delivery methods.

### Principal Investigator:

Dr. Lingzi Wu (PI), Department of Construction Management, College of Built Environments, University of Washington

### Proposed Timeline

Sep 15, 2023 to Dec 31, 2023

### Funding Request (Best estimate)

The budget of the current 3-month seed grant project is estimated at US $21,650. The proposed budget encompasses funding for research faculty, Dr. Wu (Principal Investigator), and one-quarter of a research student (PhD).

### Contact Information

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