

Prime Applicant: University of Maryland
Project Title: Robotic Façade Retrofit Solution- MODMIM

Principal Investigator:	Ming Hu, Miroslaw J. Skibniewski, Thomas Bock
Key Partners:	State of Maryland, DMD Modular
Proposed Project Duration:	

Need and Challenge:

- Objective 1: develop an **innovative holistic renovation framework (MODMIMI)** that composed of six phases: **Mapping, Organizing, Designing, Manufacturing, Installation, Monitoring.**
- The project goal is to develop a robotic prefabricated modular façade retrofit solution to improve building energy performance with minimal intrusion of building residence.

Proposed Objectives:

- Objective 1: develop an **innovative holistic renovation framework (MODMIMI)** that composed of six phases: Mapping, Organizing, Designing, Manufacturing, Installation, Monitoring,
- Objective 1: develop and test a **high performance prefabricated façade panel** for deep renovation, integrating window, insulation materials, collective HVAC systems, The façade panel will be based on timber and recyclable materials for a low carbon footprint.

