



## SOLVING THE PROBLEM

Maalka's modeling platform reduces the time and cost of accurately modeling and simulating large portfolios of buildings by over 90 percent. The open, scalable platform enables optimized portfolio-level improvement strategies and continuous tracking of the impacts of investments on efficiency, health, and finances over time. Fully virtualized portfolios will revolutionize how commercial building portfolio owners, utilities, investors and public sustainability programs manage assets, teams, operations and investments.



## THE IMPACT:

Historically, physical energy audits that cost between 10 and 15 cents per square foot have been used to recommend energy conservation actions. Maalka's technology automatically generates accurate building energy models for macro-scale management of resources like energy, water and waste. This technology enables building owners to rapidly deploy customized improvement strategies and develop frameworks based on empirical projections and real-time monitoring. The ability to manage such strategies at scale will result in the broad financing and adoption of the most energy efficient technologies across the United States.

## HOW IN<sup>2</sup> IS HELPING:

Maalka is in need of completing development and testing of their technology platform to ensure stability, scalability and security. Through the IN<sup>2</sup> program, Maalka has the opportunity to bring this extremely valuable technology that stands to transform commercial buildings into virtual resources for improving energy efficiency to the next level. The IN<sup>2</sup> program provides a unique opportunity to accelerate their Portfolio Level Energy-Efficiency Strategy (PLES) development, deployment and validation.

### TIER 1: Bench Scale

- Concept development stage
- Develop plans for prototyping & testing
- 3 – 5 years to market

### TIER 2: Prototype

- Available for testing & validation
- Plans for development of final product
- Less than 2 years to market

### TIER 3: Commercially Ready

- Models available in limited quantity
- Integrated demonstration
- Less than 18 months to market testing

## ABOUT THE IN<sup>2</sup> PROGRAM

IN<sup>2</sup> is a technology incubator that fosters and accelerates early stage technology companies that provide scalable solutions to reduce the energy impact of buildings. Through a \$30 million program funded by the Wells Fargo Foundation and co-administered by the U.S. Department of Energy's National Renewable Energy Laboratory (NREL), sustainable building technologies are able to evolve and develop, contributing to the overall goal of a Smart and Connected Community that uses energy, water and other resources efficiently, reducing the negative impact on the environment.