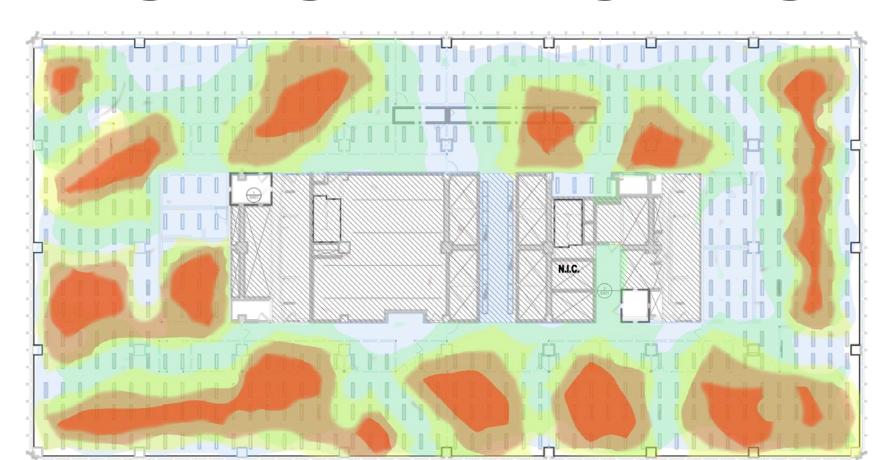
DOE Commercial Building Initiatives in the Lighting Space

Field Validations

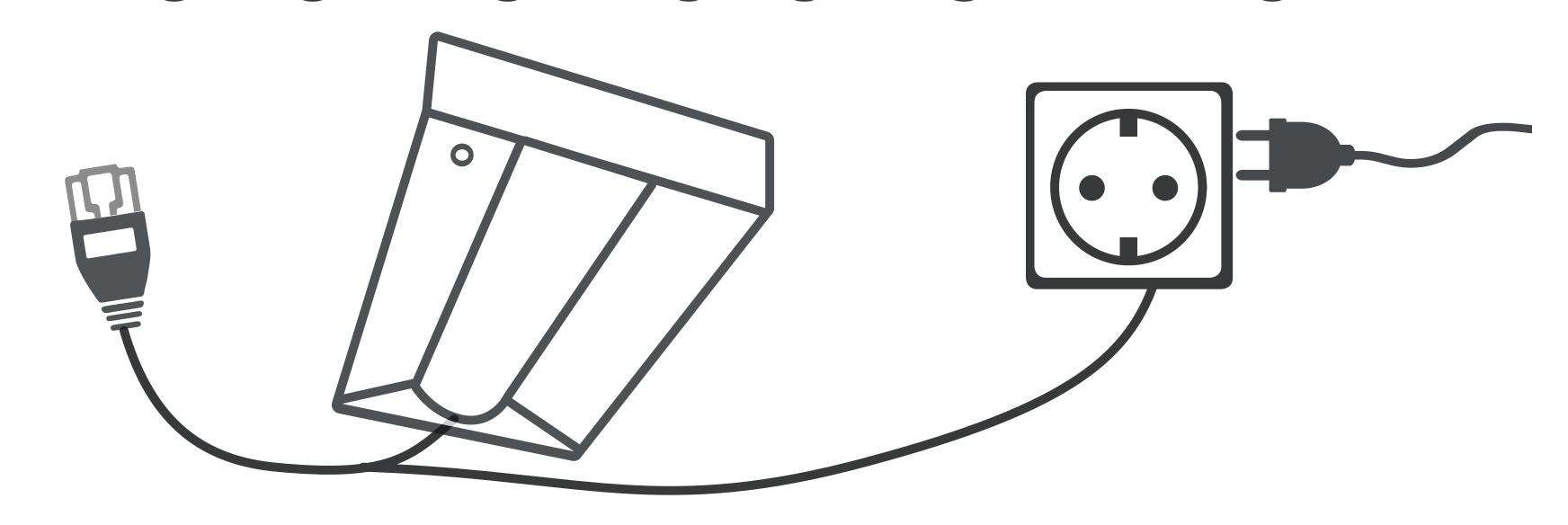
Test technology and system performance in real world applications for energy and cost savings.

Ongoing: IoT Lighting + Space Utilization



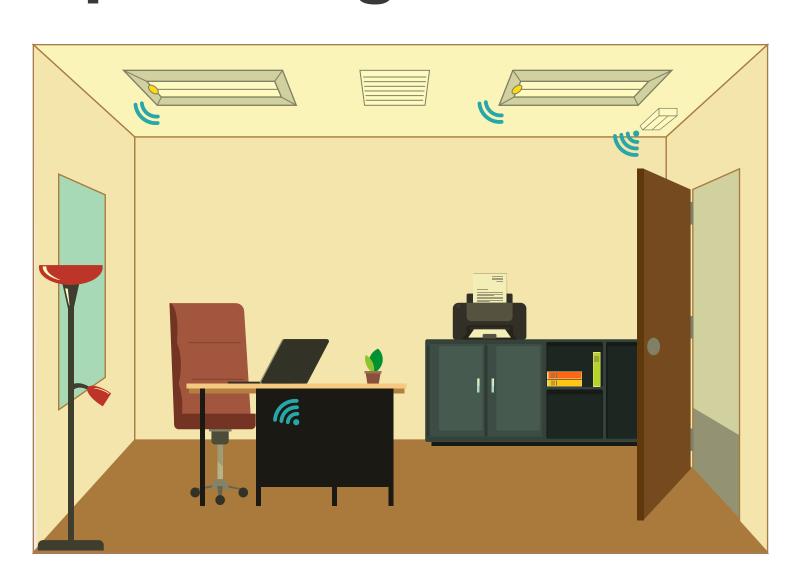
Internet of Things (IoT) sensors in the lighting to provide data about space utilization

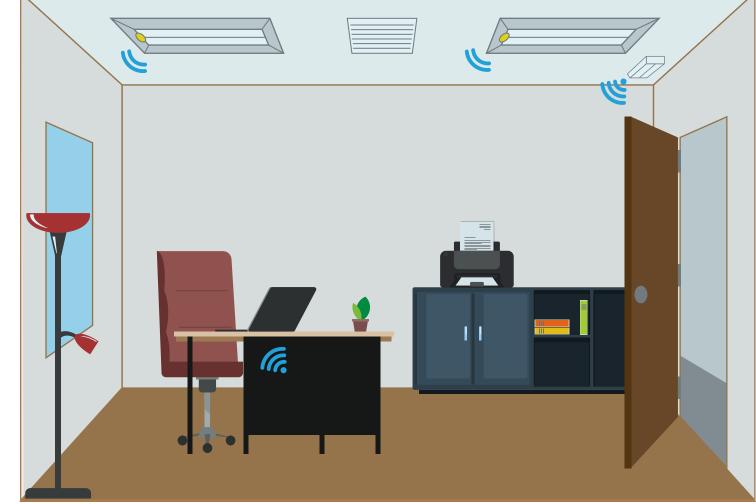
Ongoing: Integrating Lighting with Plug Loads or HVAC



- Using Power over Ethernet (PoE) to control lighting and plug loads
- A second evaluation to study occupancy sensors in the light fixture to set back the HVAC and switch plug loads off

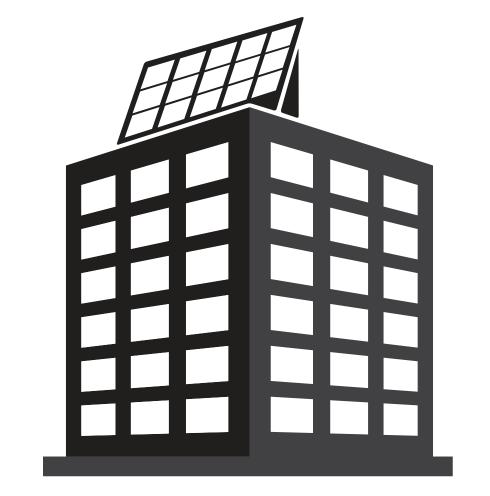
Upcoming: White Tunable Lighting

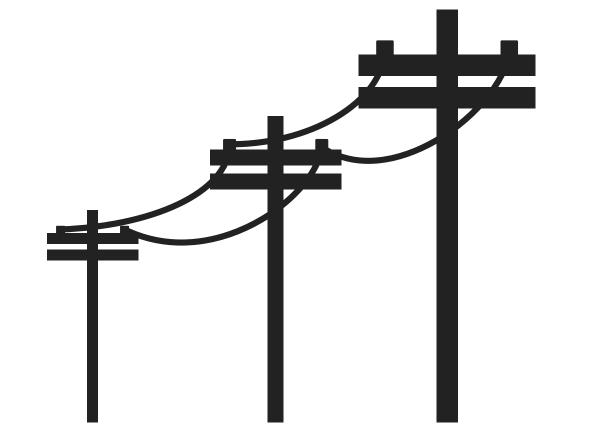




Exploring the benefits of tunable lighting in office spaces

Upcoming: PV+Direct Current+Led+On-site Storage



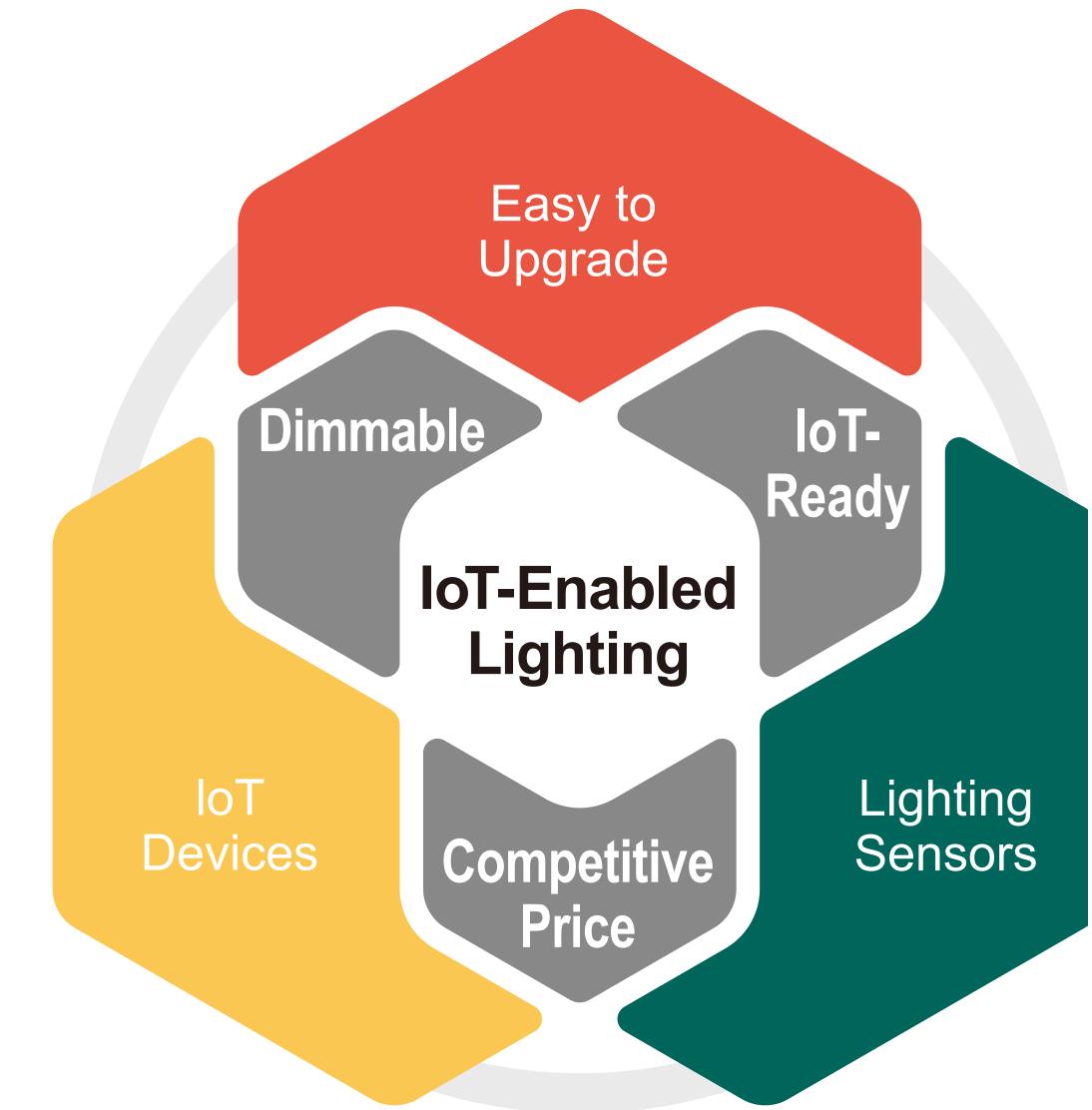




Exploring photovoltaics, LED lighting, and on-site energy storage

IoT-Enabled Challenge

Challenge the market to deliver a high performance IoT-enabled light fixture that is 'future ready', at low incremental cost





Simple LED fixtures are being installed now, but IoT features needed in future, will require significant modifications or new fixtures

IoT-enabled fixtures can be upgraded in the future from below the ceiling plane with virtually no labor when your facility is ready for the IoT application



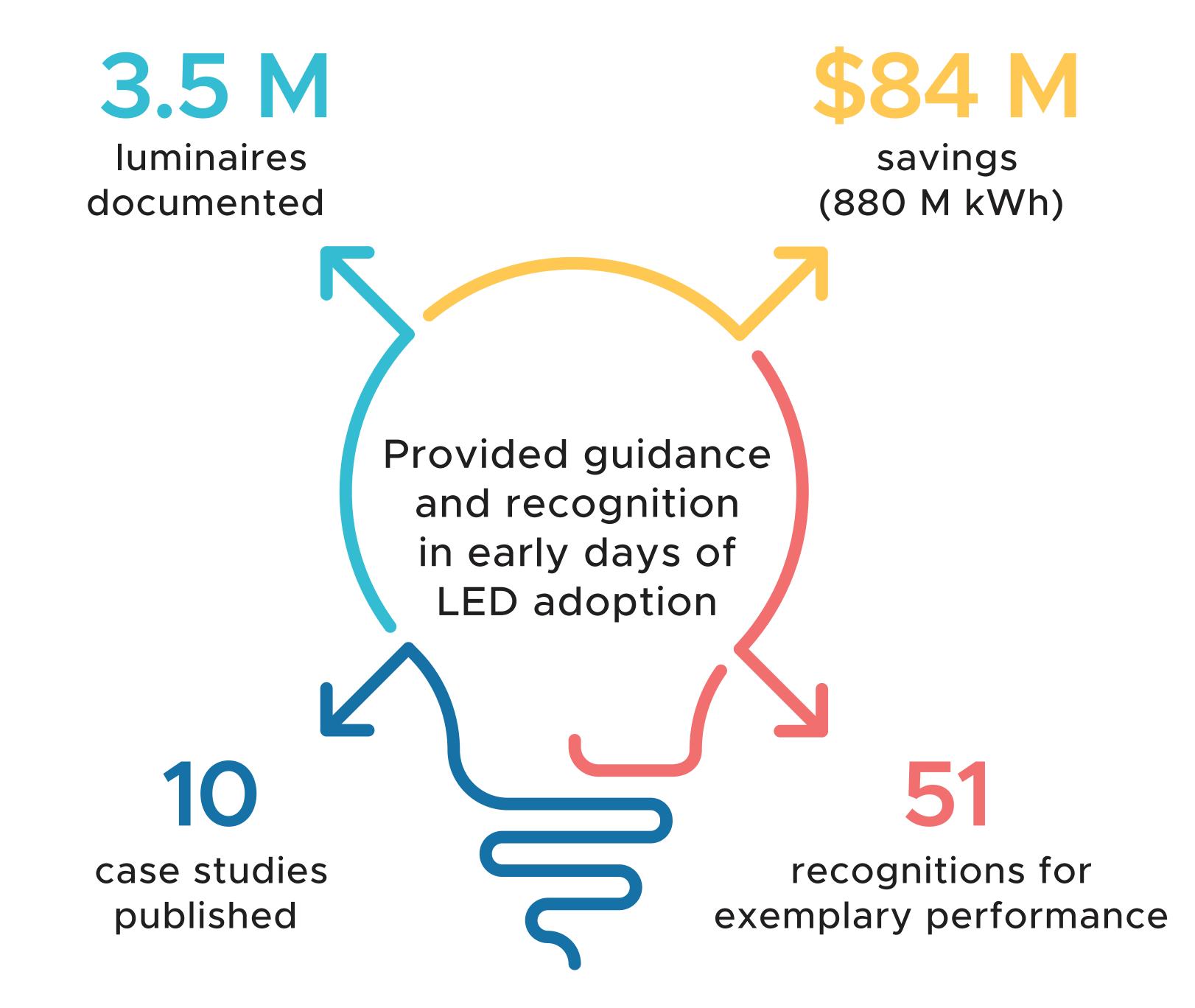
Potential Business Benefits for IoT Lighting



Lighting Campaigns

Accelerate the adoption of efficient lighting technologies by providing implementation best practices and recognizing success

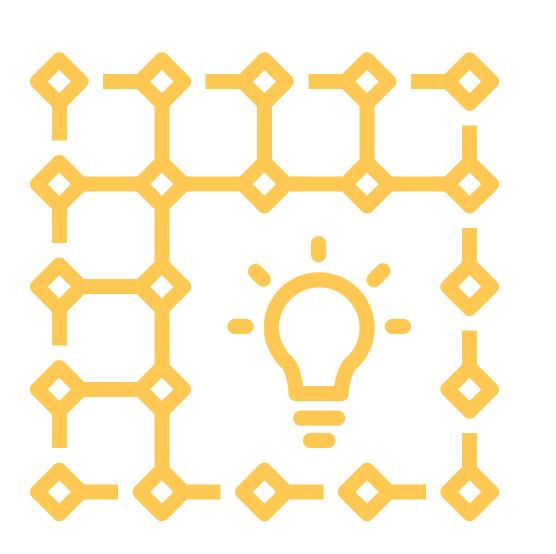
Recent Interior Campaign



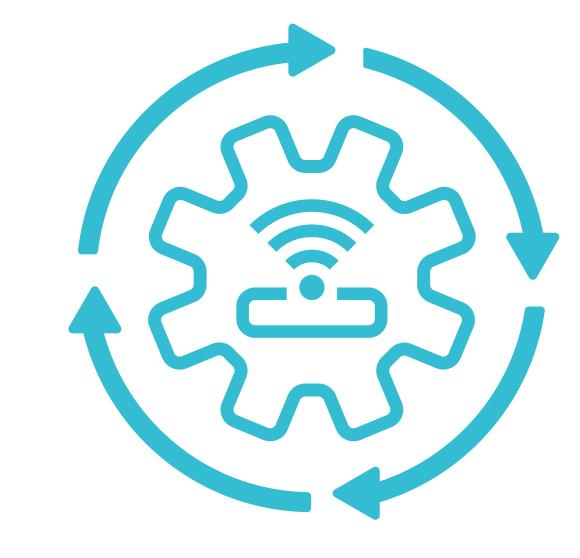
Integrated Lighting Campaign

Supports technology development and early adoption of advanced lighting systems, especially those that integrate with other building systems to increase energy savings.

Scheduled Launch Spring 2020



End users and supporters can be recognized for achievements in the field



End users have access to technical assistance from experts, and resources including case studies, tools, best practices, and lessons learned



For additional information, contact:

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Other Lighting Topical Areas of Interest: *Indoor Agriculture, DC Power, AI-Enabled Building Applications, Multi-Building Efficiency and Optimization*

