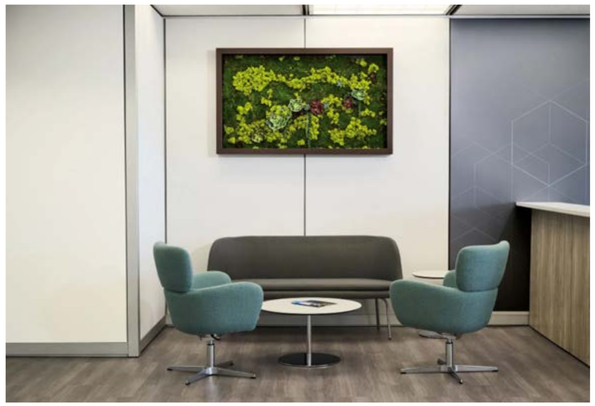
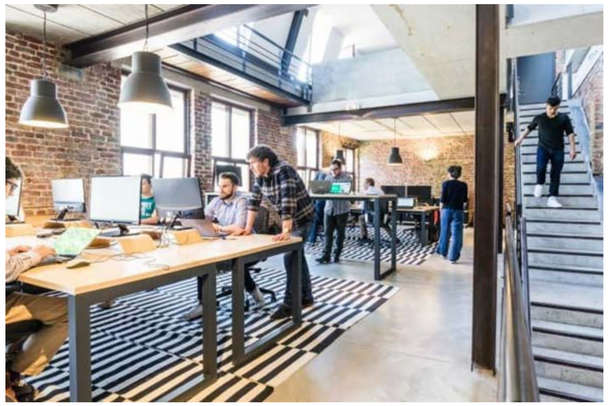
AUTONOMY RESEARCH CENTER FOR STEAHM

Autonomy for Sustainability

WorkHub Model to Enhance Connectivity and Productivity in Utility Organizations





Synopsis

- LADWP WorkHub enhances employee productivity and well-being through innovative workspace design.
- Benchmark Study evaluates LADWP's WorkHub for its efficiency, employee satisfaction, and sustainability.
- A generalizable WorkHub-based workspace model will be created, incorporating best practices and cutting-edge technologies.

Research Objective

- **Enhance Employee Experience:** Improve satisfaction, productivity, and connectivity to foster a sense of belonging.
- **Optimize Space and Indoor Quality:** Develop strategies for effective space utilization and improve indoor environmental factors.
- **Promote Sustainability and Inclusivity:** Achieve sustainability goals while integrating diversity, equity, and inclusion into the WorkHub initiative.

Research Approach

- **Benchmark Study:** Assess LADWP's WorkHub's effectiveness in boosting employee connectivity, collaboration, and sustainability benefits.
- **Model Development:** Create a scalable model to optimize internal structures and communication for future WorkHubs.
- **Generalizable Workspace Model:** Develop a scalable model for public utility organizations that incorporates best practices and technologies such as AI and IoT to enhance productivity.

Research Results and Products

The evaluation of LADWP's WorkHub is expected to achieve key outcomes, including:

- **Improved Employee Experience**: Enhanced satisfaction, comfort, and productivity.
- **Optimized Space Utilization**: Better use of space for hybrid work, boosting team connectivity.
- **Improved IEQ**: Actionable strategies for better air quality, lighting, acoustics, and comfort.
- **Diversity and Inclusivity**: Recommendations for a Chief Diversity and Inclusion Officer (CDIO) model.
- **Scalable Model**: A strategic, adaptable framework for future WorkHubs and public utility organizations.

Commercialization and/or Societal Impact Opportunities

- **Application:** Scalable Workspace Solutions and Smart Technologies Integration
- **Key Values:** Customized hybrid WorkHub designs that enhance productivity and employee well-being, along with real-time workplace management through AI, IoT, and smart collaboration tools.
- **Potential Customers**: Public utility organizations, corporate offices, educational institutions, and co-working spaces.

Team Names & Collaborators

Faculty:

Dr. Nasrin Golshany, Family and Consumer Sciences; Dr. Hessam Ghamari, Family and Consumer Sciences; Dr. Nhut Ho, Mechanical Engineering: Dr. Bingbing Li, Manufacturing Systems Engineering; Dr. Shawn Sun, Civil Engineering; Dr. Thang Le, Civil Engineering

Collaborators and Mentors:

Tom DeSmet (Project Management and Utility Construction, Los Angeles Department of Water and Power); Maria Sison-Roces (Sustainability and Energy Efficiency, Los Angeles Department of Water and Power)

Citations

Munoz, K. (2024, July). *LADWP WorkHub takes teleworking to a new level.* Intake Magazine. https://intake.ladwp.com/intake-magazine-july-2024/in-focus

CSUN. LA DWP Los Angeles Department of Water & Power. NASA Partner

Updated: 10/2024