

Phase 2: Improving Organizational Productivity with Building Automation Systems

Project Data Supplier (\$0)

- This is for a large organization who can contribute a significant amount of anonymized building and human resource data to the project.
- This organization will join the project free of charge and receive all the funder benefits.

Data Contribution Request

This information is only a general guideline, if you have any interest in providing data a call should be arranged with the National Research Council (NRC) and/or CABA to determine if and how your data can be used. *This is only a broad strokes description of the data being requested.*

- Data for individual employees in multiple buildings, preferably repeated over time. More people and more buildings are always better.
 - We must know at least the building in which the individual worked at the time the data were collected. (Locating them within the building too would be even better.)
 - If repeated over time, then we would like to be able to link the individual from one time to the next.
 - It would be best to know at least the age, sex, and education level of the employee.
- Examples of individual employee KPIs that we would like to have are:
 - For example, an employee survey that is completed every year (or whatever period is in use), for several years, through which individuals provide responses to questions about job satisfaction, well-being, engagement, etc.
 - Alternatively, corporate data concerning absenteeism, use of paid sick leave, employee retention, or the like.
 - Manager-assessed job performance would also be great; or, if there are any in-house automated work performance metrics (e.g., call centres), that would be good too.
- However, we do NOT need to know the name of the individual; in fact, we prefer not to have personal identifiers. It would be best if the data donor takes steps to create a unique identifier for each individual, so that the data we receive are anonymous.

- For each building from which we have employee data, and at each time point, we need:
 - The building characteristics: size, age, description of principal systems (HVAC, lighting, etc.), occupancy (# and occupied area), location, ownership, interior design features (e.g., open-plan; activity-based working; etc.), operation schedule
 - Details of any changes that took place in the building during the time between measurements (e.g., major renovations).
- If possible, it would also be desirable to have facilities management logs for each building over the time period of the other data.
- Energy use or other operations data for each building over the time period would also be useful.
- File format does not matter. We can manage with or convert from any major file type we can imagine being in use.
- Detailed codebooks and column headers for all data are required. Putting our team in contact with the data management team at the other side would be wise, so that we can be confident that we know what we have to work with.

For more information about this research project contact:

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