Smart buildings

SMPE

What is a Smart Building?

Smart Technologies:

- Sensors
- loT



Operations:

- Energy
- Comfort
- Security

Problems addressed:

- Reducing energy consumption.
- Improving operational efficiency and occupant comfort.
- Enhancing security and reducing management costs.



Analysis of the Articles and Identified **Problems**

- Can a Building Have Empathy?
 - Collection + Analysis of behavioral data <a>V empathic design V 0

 - Complexity of prediction X Empathy in shared spaces X



Advantages

- Reduction of CO2 emissions through energy efficiency.
- Enhanced quality of life (comfort, personalization).
- Optimized resource management (water, energy).

Evaluation of Impacts

Disadvantages

- Increased technological dependency.
- Risks to privacy and data security.
- High initial installation and maintenance costs.

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Unlocking New Usages with Smart Buildings?



Possible Usage:

Integration with smart cities

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Unlocking New Problems with Smart Buildings?



Newly Emerged Problems:

Increased need for training building managers.

Growing dependency on technology providers



ADEME Scenarios and Smart Buildings

- Sufficiency
- → Green Technologies



Thank you for your attention