

# Concept development: Making the smart home of the future more energy efficient

## Motivation

Recently, major technology firms (e.g., Apple, Google, Amazon) created the unified smart home protocol "Matter", which facilitates communication, monitoring and control of all connected devices in a smart home, from small sensors to energy hungry appliances and even heating systems. This opens up opportunities for a central "energy efficiency center" of the smart home, which could monitor and control and optimize all devices with significant energy consumption, and e.g., provide the users with suggestions on how to be more energy efficient.

## Task

The student shall create a concept for an energy efficiency center for future smart homes, which is Open-Source and based on Matter. This includes an analysis of feasibility, requirements, and potential energy-saving features.

**Level:** Bachelor thesis

## Methodology

- online research, requirements engineering, conceptual work

## Special prerequisites

- None

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