Final Thesis:
# More Privacy within the Smart Grid

→ Background

Due to decreasing resources as well as massive greenhouse gas emissions, the need for a more efficient energy grid is obvious. This resulted in the **Smart Grid**, a more efficient grid, being introduced. Most notably, this novel grid incorporates communication flows. However, much of this data is highly sensitive, as it contains personal information. Because of the massive amount of data as well as the high number of players, current organisational means of privacy enforcement are not sufficient. A novel framework, which addresses these **privacy issues** and allows an automated access control and the enforcement of privacy rights on a technical level is needed.

→ Goal

A **communication framework** enabling the **technical enforcement of privacy** within a Smart Grid scenario has to be modeled. Furthermore, a prototype proofing the feasibility of this conceptual model should be implemented. Such a demonstrator would also be an ideal candidate for the Semantic Web Challenge.

→ Requirements

Knowledge of semantic technologies as well as Java skills are required.
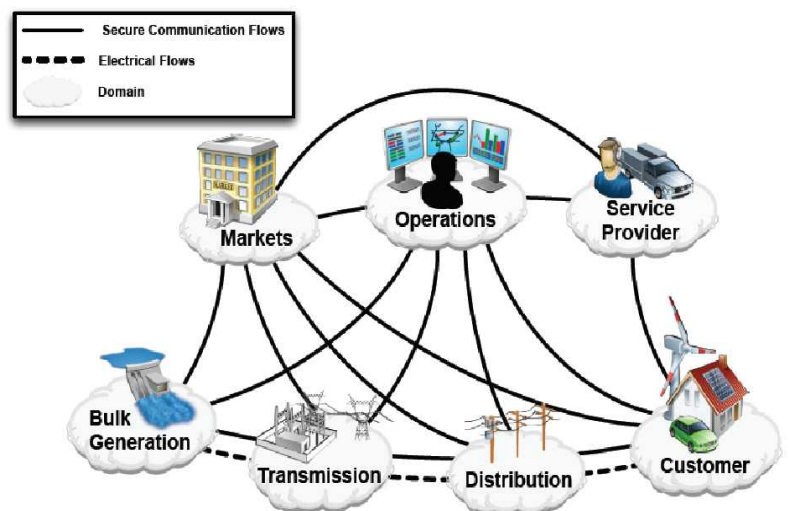
For further information, please contact:

Andreas Wagner
a.wagner@kit.edu
Forschungsgruppe Wissensmanagement
Institut AIFB