



Virtual Utility from Northsea to the river Rhine WP 3



WP3 - FI Developing B2B electricity eco-system - Building a cross-border Virtual Utility

Motivations

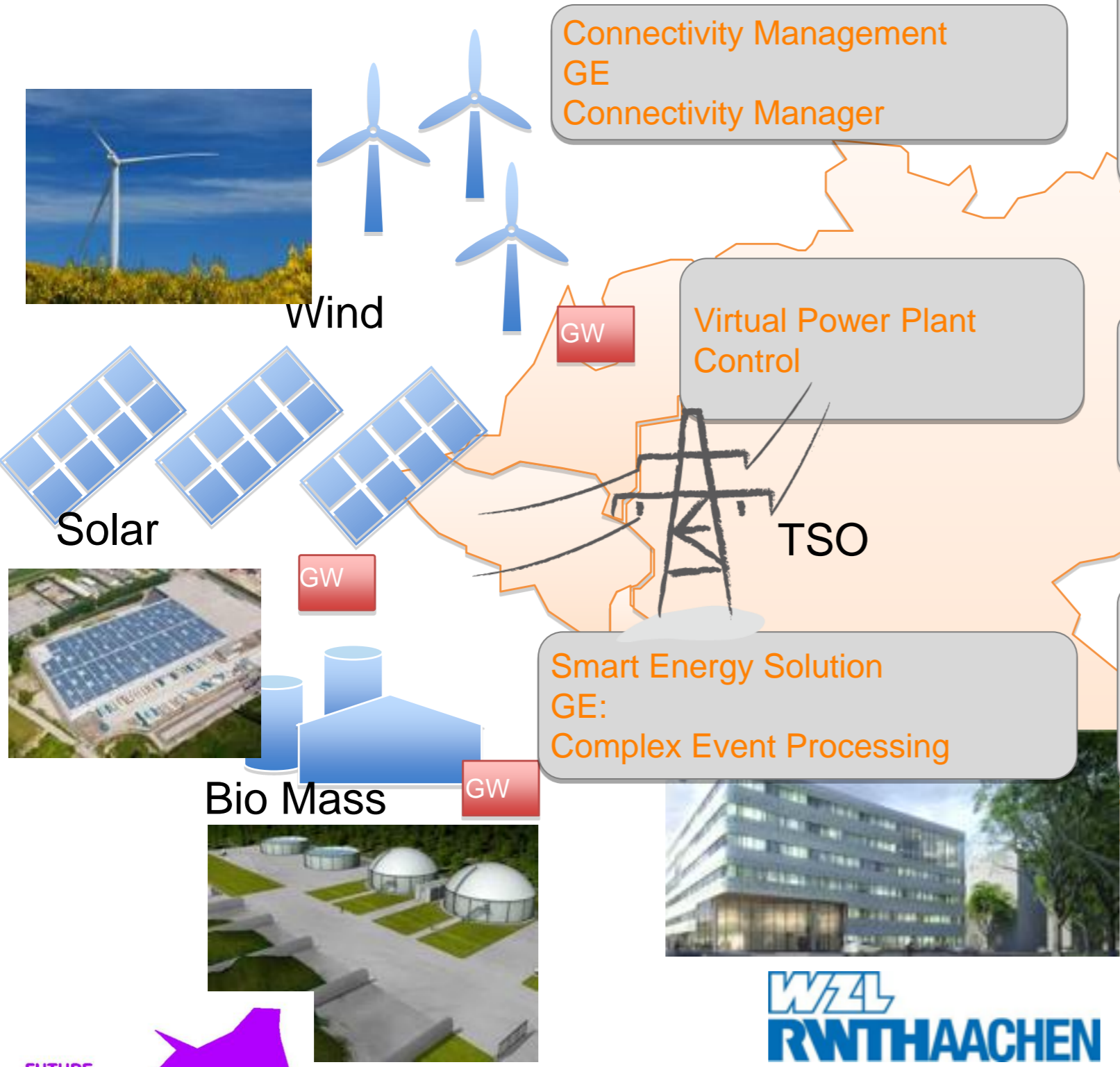
- Combine renewable Energy production with Demand Site Management to a Virtual Utility
- Combine different volatile energy production to guaranteed CO2 free certified energy

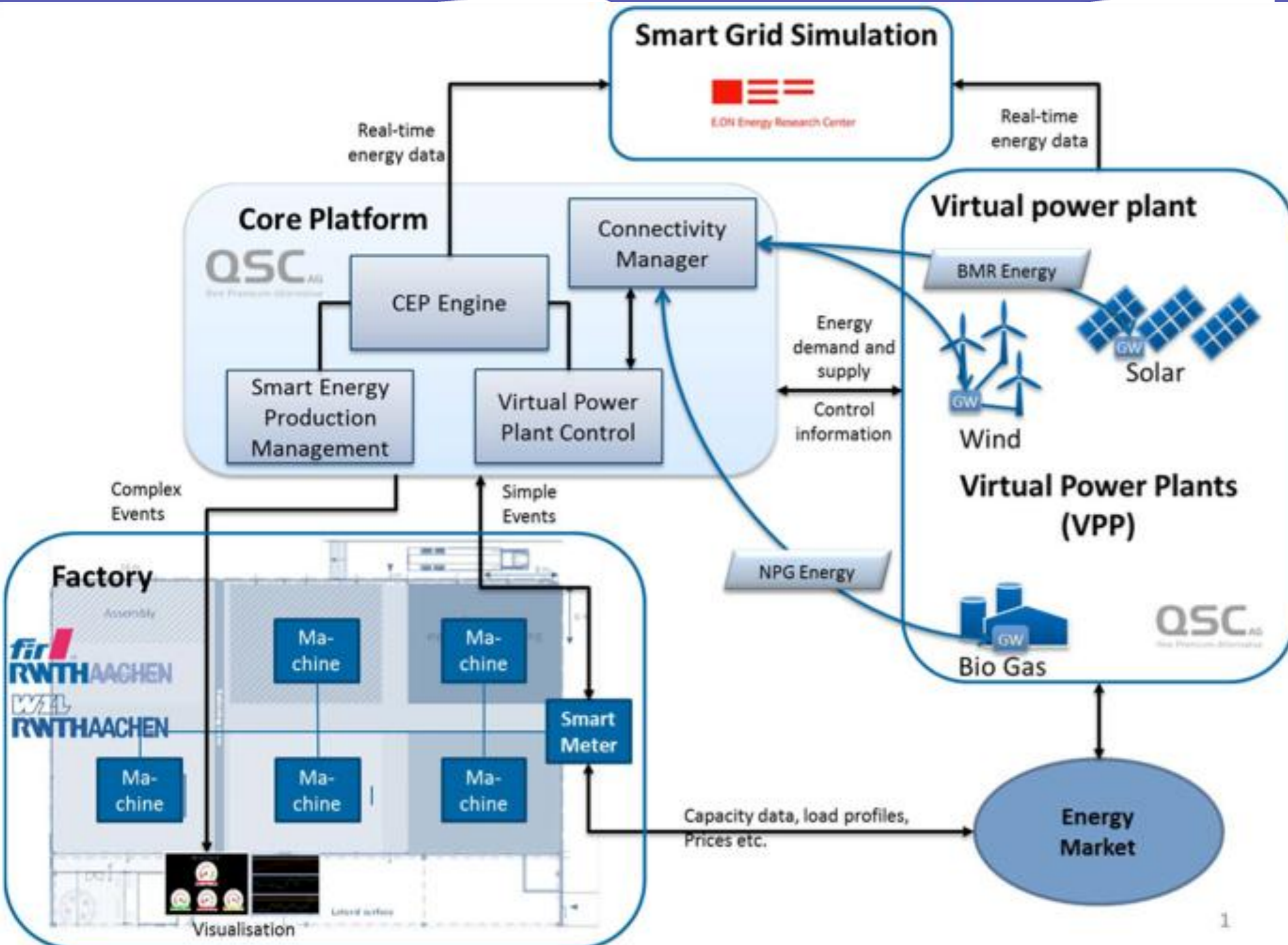
Objective

- Increase the part of renewable Energy of the consumption of electrical Energy

Scope

- Trial installation in Belgium and Germany
- ~10 Renewable energy sources
- ~1 Demand Site

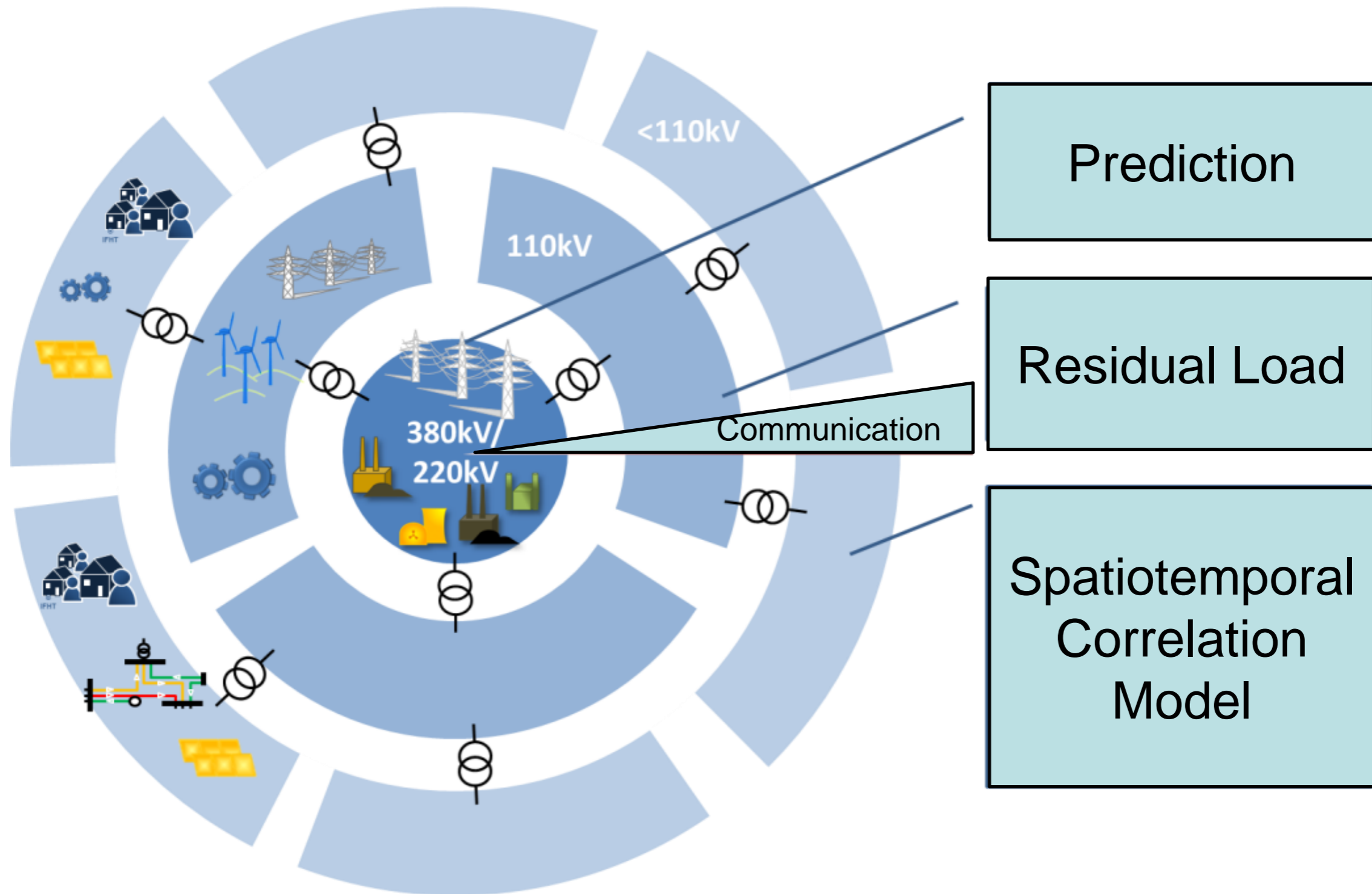




Smart Grid Interaction

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SMART
UTILITY
SERVICES

FINESCE



Belgium

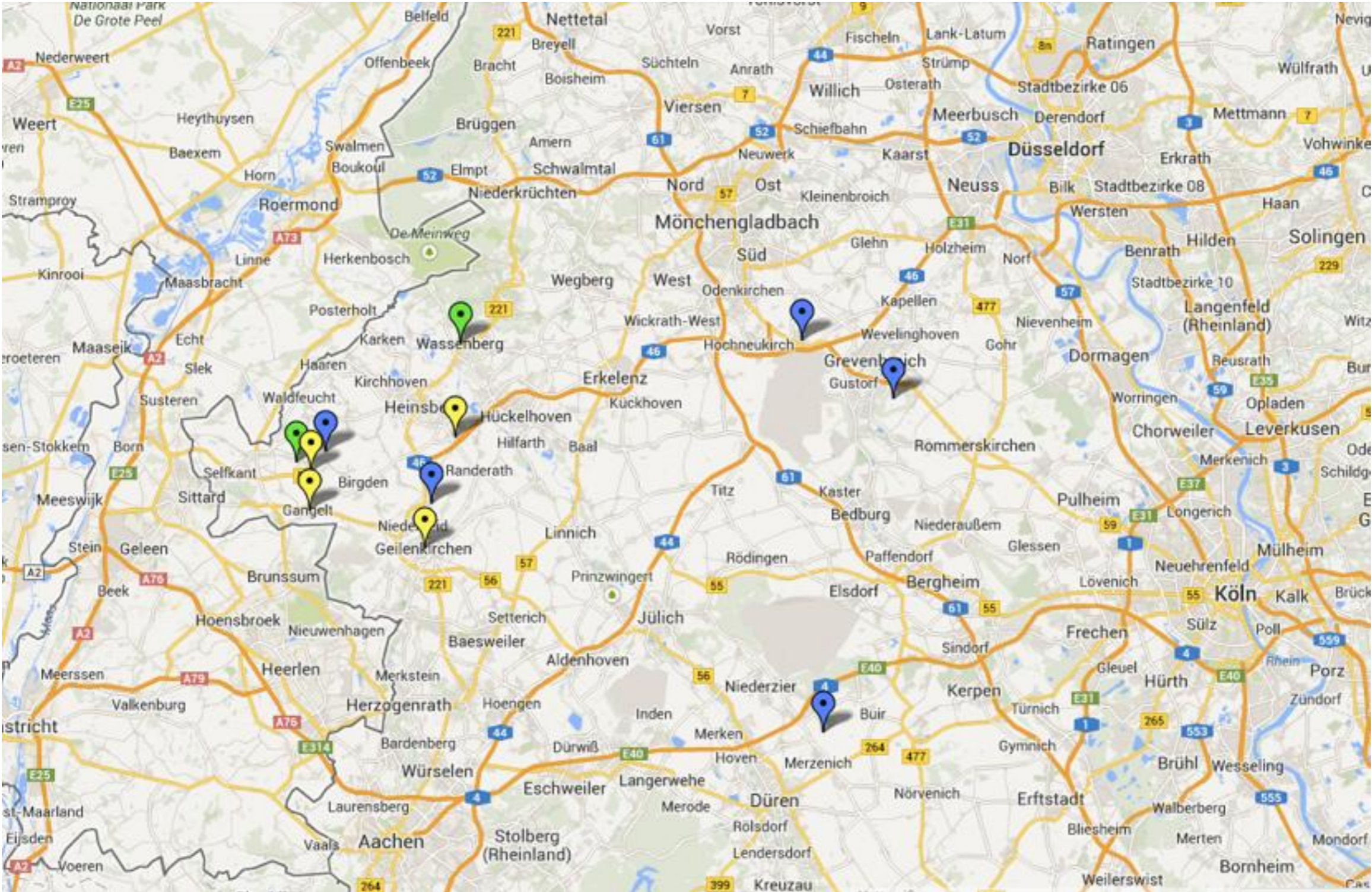
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Germany

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Constrains Challenge

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- Real-time
 - End 2 End Data Management
 - Security in critical Infrastructure
 - Production Schedule Aggregation
 - Demand Site Response
- Demand Site Management
 - Energy Schedule Planing
 - Production Process Steering through Energy Production

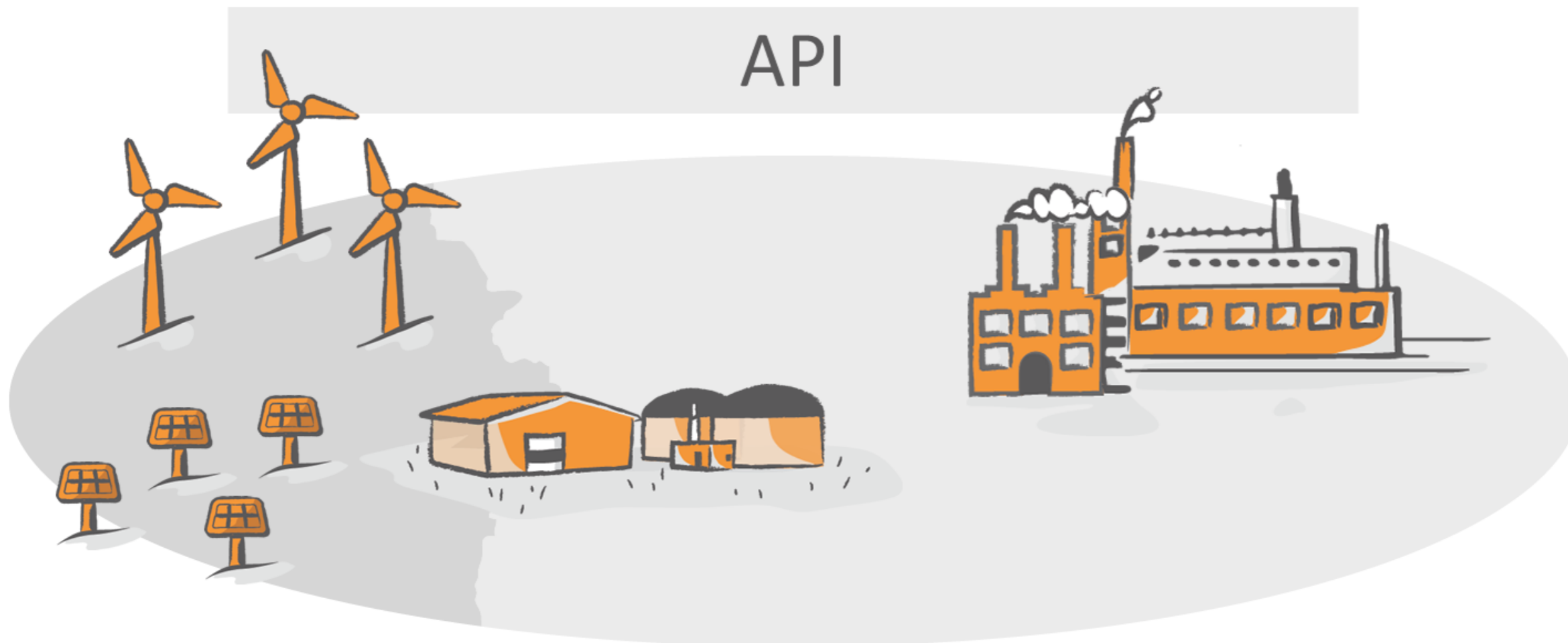
The Applications I/F for WP 3

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API



Ideas for Innovation & Applications

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- Aggregation of typical Energy Load and Production Profiles
- User-friendly GUI
- Energy efficiency Planner for SME Customer
- Whatever you have in Mind

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Good-Luck!

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