



A new approach for an efficient and flexible control of biogas production in a full scale plant

motivation

- insufficient modelling for real process operation
- unused potential of existing big data

vision

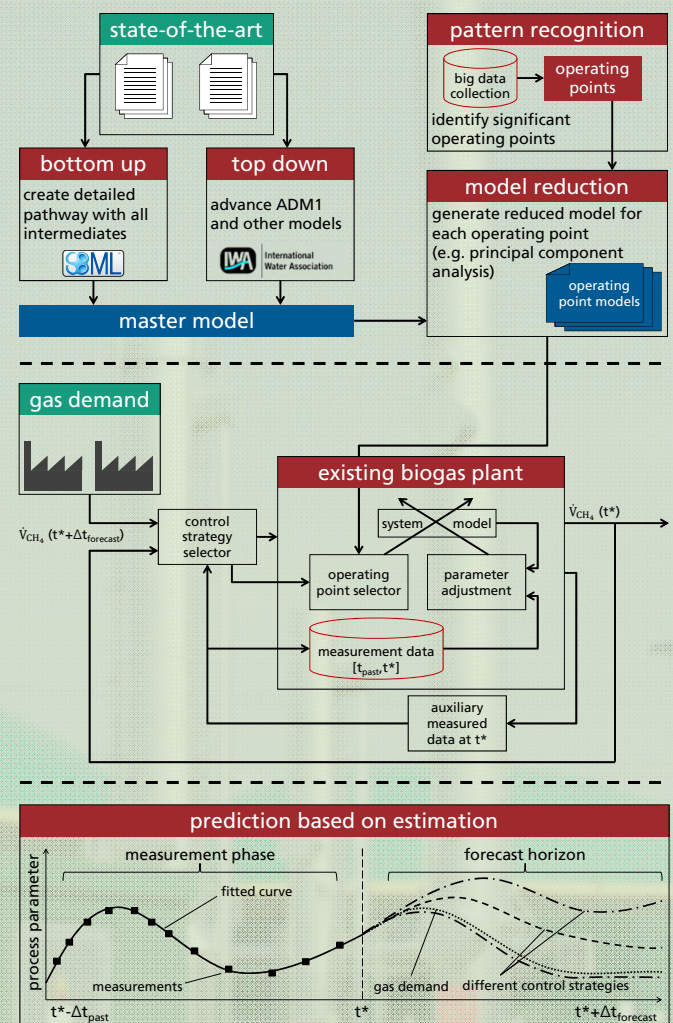
- smart grid integration of biogas plants in accordance to the demand of the gas market by implementing a
- robust, fast, and dynamic control of the raw biogas production process

objectives

- enhancing description of biological process in an adjustable SBML* model
- formulating a method for identifying plant-significant operating points
- reducing parameter search space by model reduction and determining theoretical limits
- applying receding horizon control

*) SBML: Systems Biology Markup Language

process flow diagram



CONTACT INFORMATION

Dipl.-Ing. Thilo Martens
thilo.martens@iwu.fraunhofer.de
www.iwu.fraunhofer.de/rmv



PROJECT PARTNERS



PROJECT EXECUTING ORGANISATION

