Sweet-IoT - An Introduction

Prof. Dr.-Ing. Stephan Scholl

TU Braunschweig
Institute for Chemical and Thermal Process Engineering
Digitalization in the sugar producing industry: Shaping „Sweet IoT“

- **General idea**

- Digitalization affects each business field in the sugar value chain
  - field is too big and develops too fast to be addressed by a single player alone

- Establish an industrial working group to explore the opportunities, challenges, threats etc. digitalization brings to the sugar producing industry

- Who should participate? → All stakeholders along the sugar value chain
  - sugar producers
  - equipment manufacturers
  - system automation
  - service providers: engineering, IT security, consultants, …
  ⇒ Industry-driven pre-competitive working group
- Sample questions

- Which data are collected and how are they processed?

- Technical platform for digitalization
  - Functionality at local and central level
  - Connectivity of local and central systems

- Design of digitalization
  - Where are data hosted?
  - Who has which rights?
  - Ownership of data: raw data, processed data, equipment data, performance data
  - Division of work: local vs. central
  - Design of cloud

- Data Protection: IT security, proprietary, legal aspects

- Explicitely excluded areas of data collection and sharing („No go“-areas)
Digitalization in the sugar producing industry: Shaping „Sweet IoT“
- Way forward

- What should be the scope of this working group? → It’s up to you to define!
- Identify opportunities and show route for their exploitation
  - Individually and collaborative

- Kickoff at 7th ESST/VDZ Conference, May 22 to 25, 2022 in Reims, France
- Results to be presented at 8th ESST/VDZ Conference in 2024