

# Odysseus

the event processing system



H.-Jürgen Appelrath, Dennis Geesen, Marco Grawunder, Timo Michelsen

Information Systems and Databases

odysseus@informatk.uni-oldenburg.de



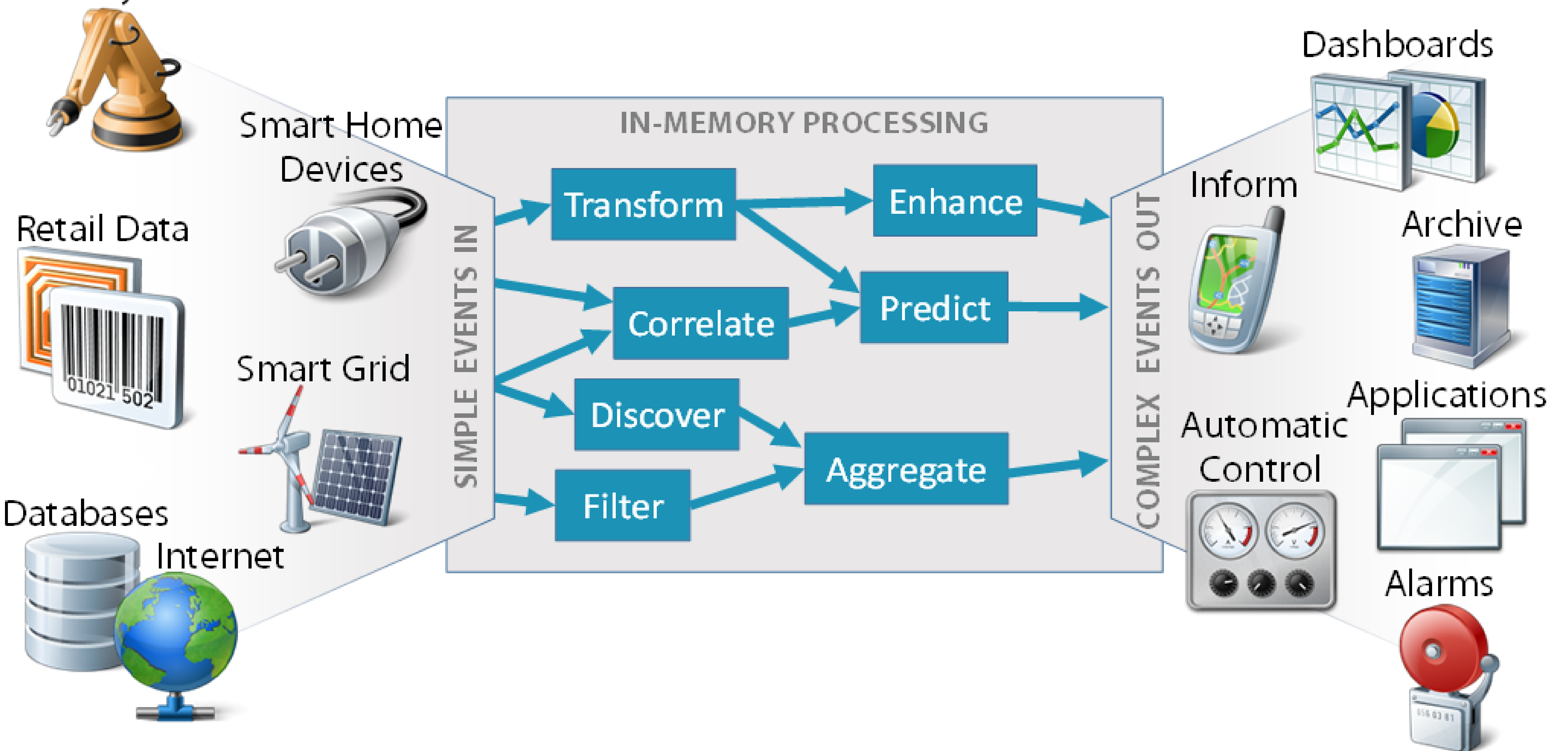
## Integrate Data from Different Sources

- Flexible and extendable wrapper architecture
- Transport: File, Network, Serial Port, JDBC, WebServices, Twitter...
- Protocol: CSV, XML, JSON, Google Protobuf, HDF5, ...
- Data models: (object-)relational, key-value, RDF, ...

## Framework: Odysseus is Built for Extension

- Smart grid environments
- Smart factory 4.0
- Sensor systems
- Business activity monitoring
- Online sport analytics
- Supply chains
- Financial trading
- Social networks

## Industry Sensors



## Analyse and Correlate Data

- Temporal and window based query processing
- Easy extendable operator framework
- Query languages: CQL, PQL, SASE, StreamingSPARQL, Odysseus Script
- Large set of predefined operators: temporal relational algebra, pattern matching, stream data mining, probabilistic, spatial data processing

## React and Visualize

- Odysseus Studio and Web Client to create and view queries
- Graphical query editor
- Dashboards for integrated Visualization
- Flexible and extendable sink architecture (similar to input)

