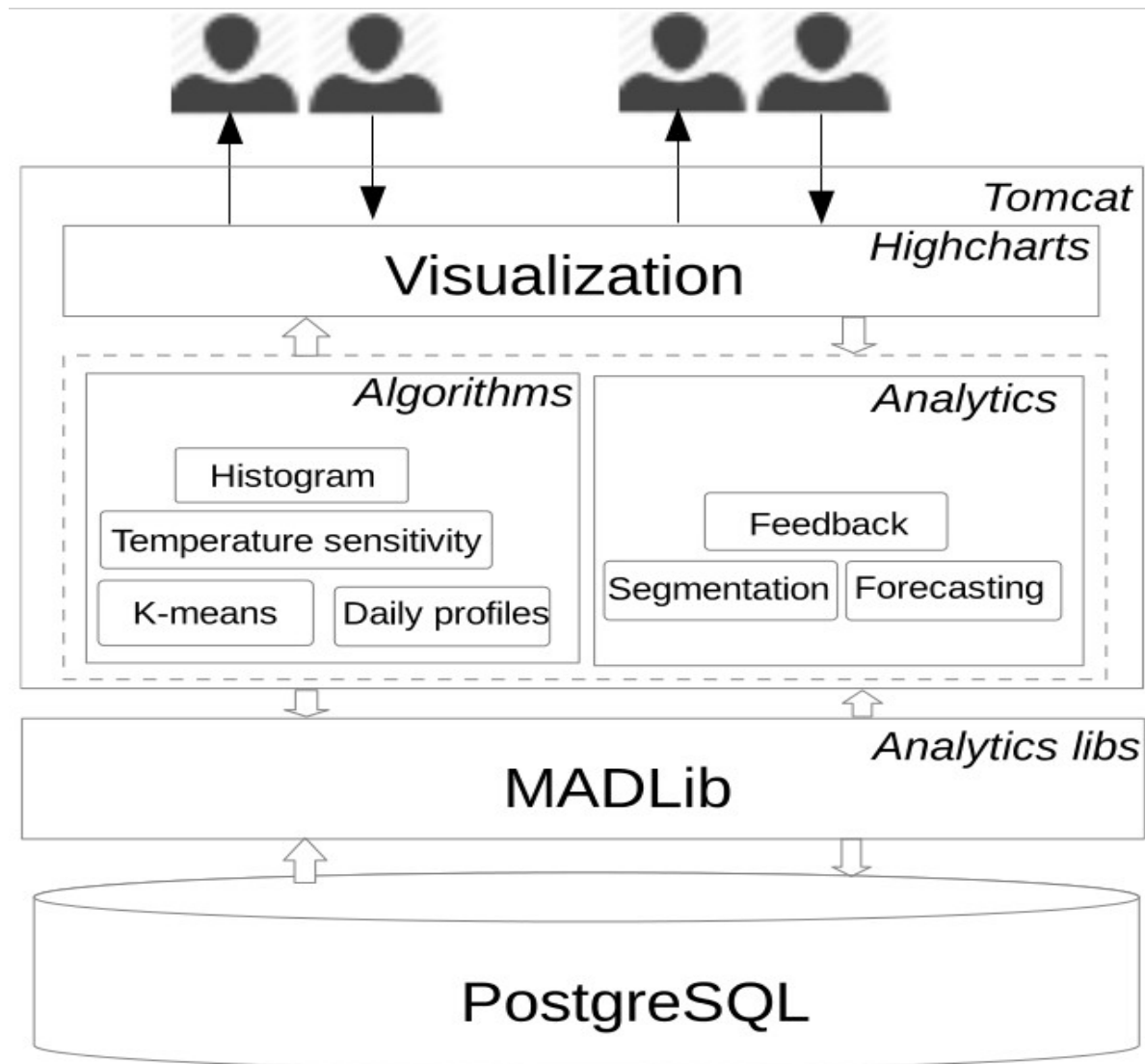# Smart Meter Data Analytics System (SMAS)

Xiufeng Liu

xiufeng.liu@uwaterloo.ca

University of Waterloo, Canada

System Architecture

Roles of the use

1. Utilities
2. Energy consultants
3. Energy consumers

Functionalities

- Energy consumption time series analytics
  - Time and location dimensions
  - Different granularities
- Segmentation analytics
  - Cluster customers with a similar consumption pattern
  - Show on Google map

Functionalities

- Energy demand forecasting
- Pattern discovery
  - Load profiling
  - Load distribution
  - Load disaggregation
- Consumption comparison
- Customer feedback

Demo

Open source - https://github.com/xiufengliu

Questions?