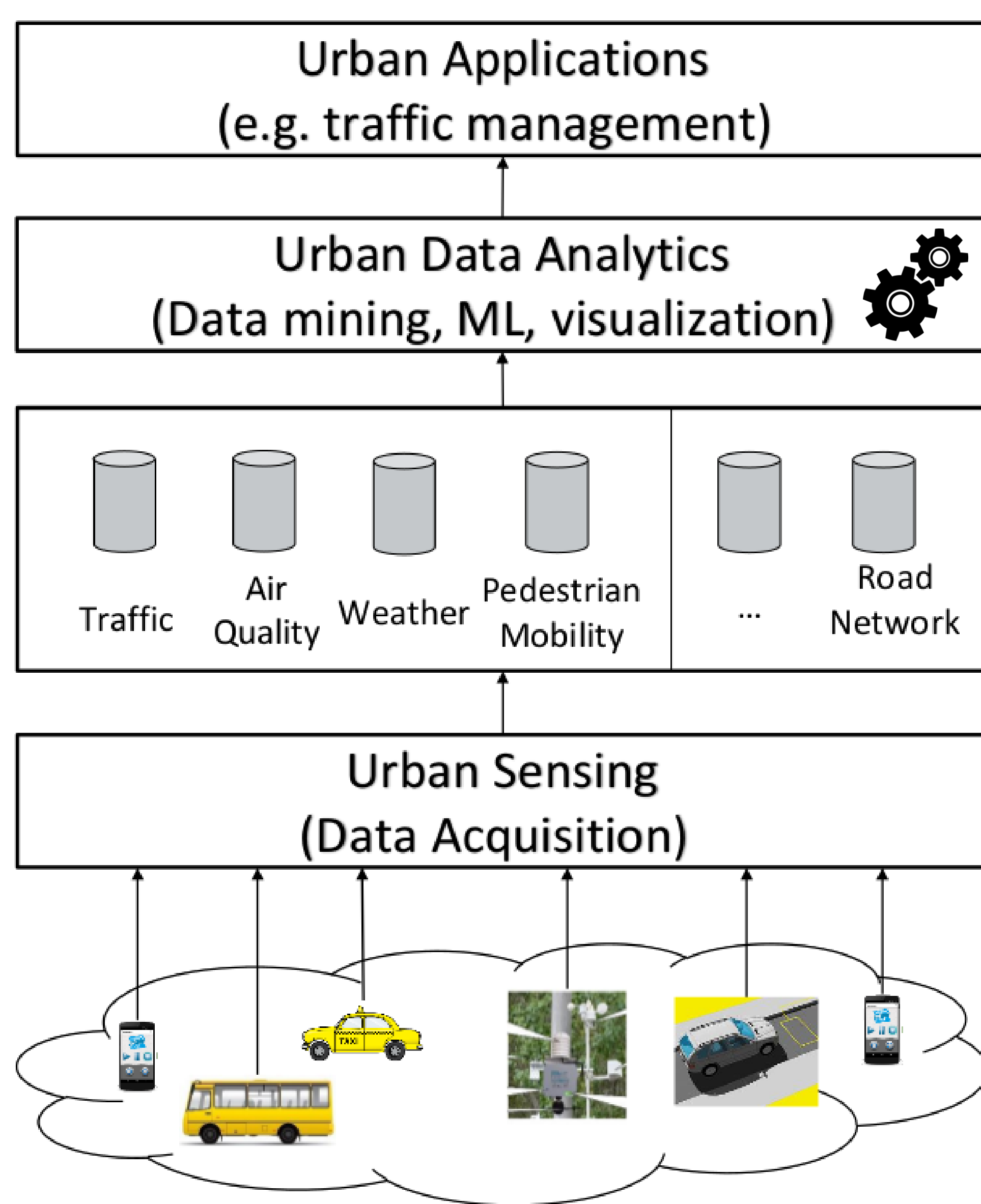


# Sensing Urban Mobility

## Networked Systems

### Concept

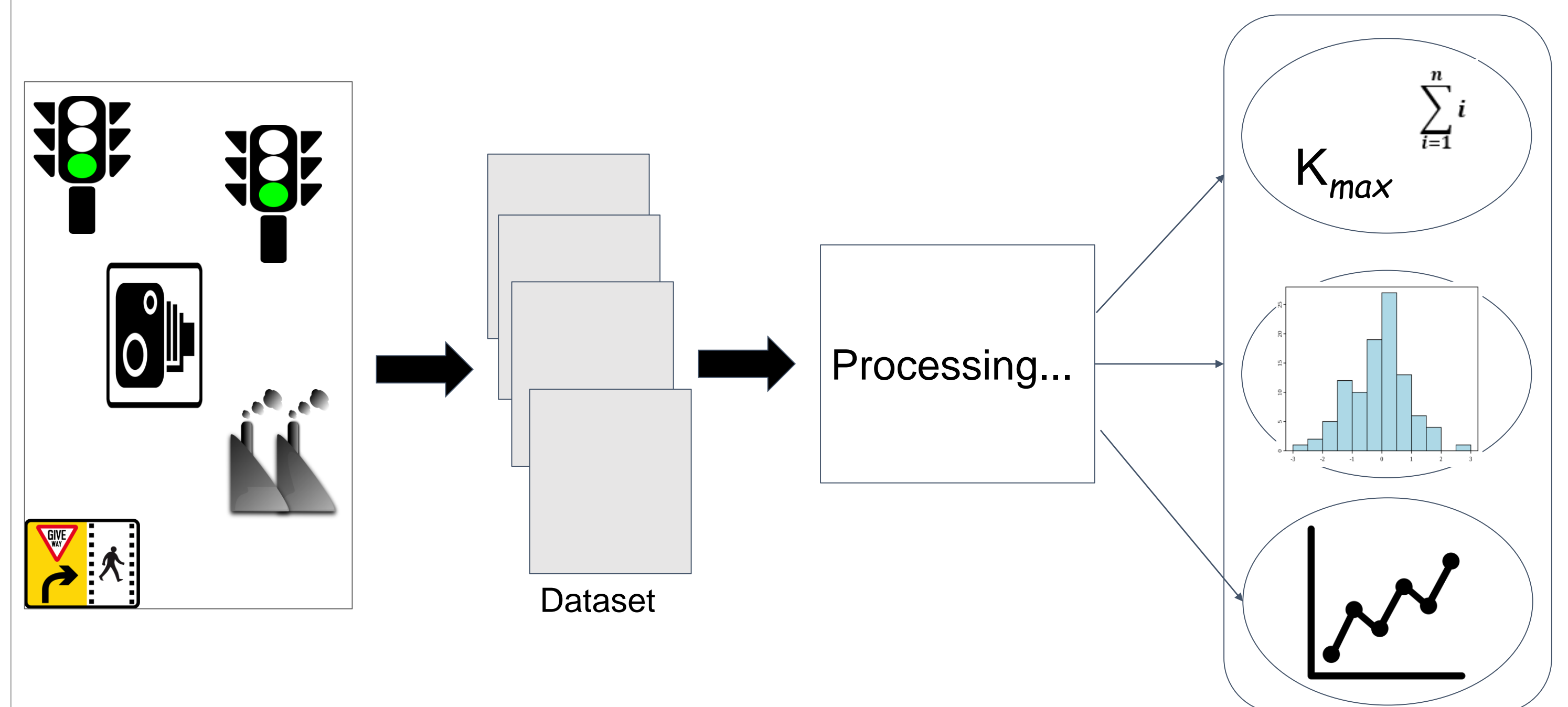
#### URBAN COMPUTING



#### URBAN DATA ANALYTICS

**Objective:** Sensing and modeling the city pulse (e.g.)

- Traffic Monitoring
- Pedestrian Mobility
- Environmental sensing



#### APPLICATION: ECO-ROUTING

**Objective:** develop eco-friendly routing engine for vehicle, bike & pedestrians

- *Dynamic:* e.g. diverts users from areas of congestion/poor air quality.
- *Adaptive:* take account of evolving context (e.g. trip purpose)
- *Personalized:* considers user preferences (e.g. shade along path)

**Optimization Criteria (e.g.)**

- travel time,
- distance,
- pollution emissions etc.

**Eco-friendly Load Balancing**



#### FIWARE ARCHITECTURE

