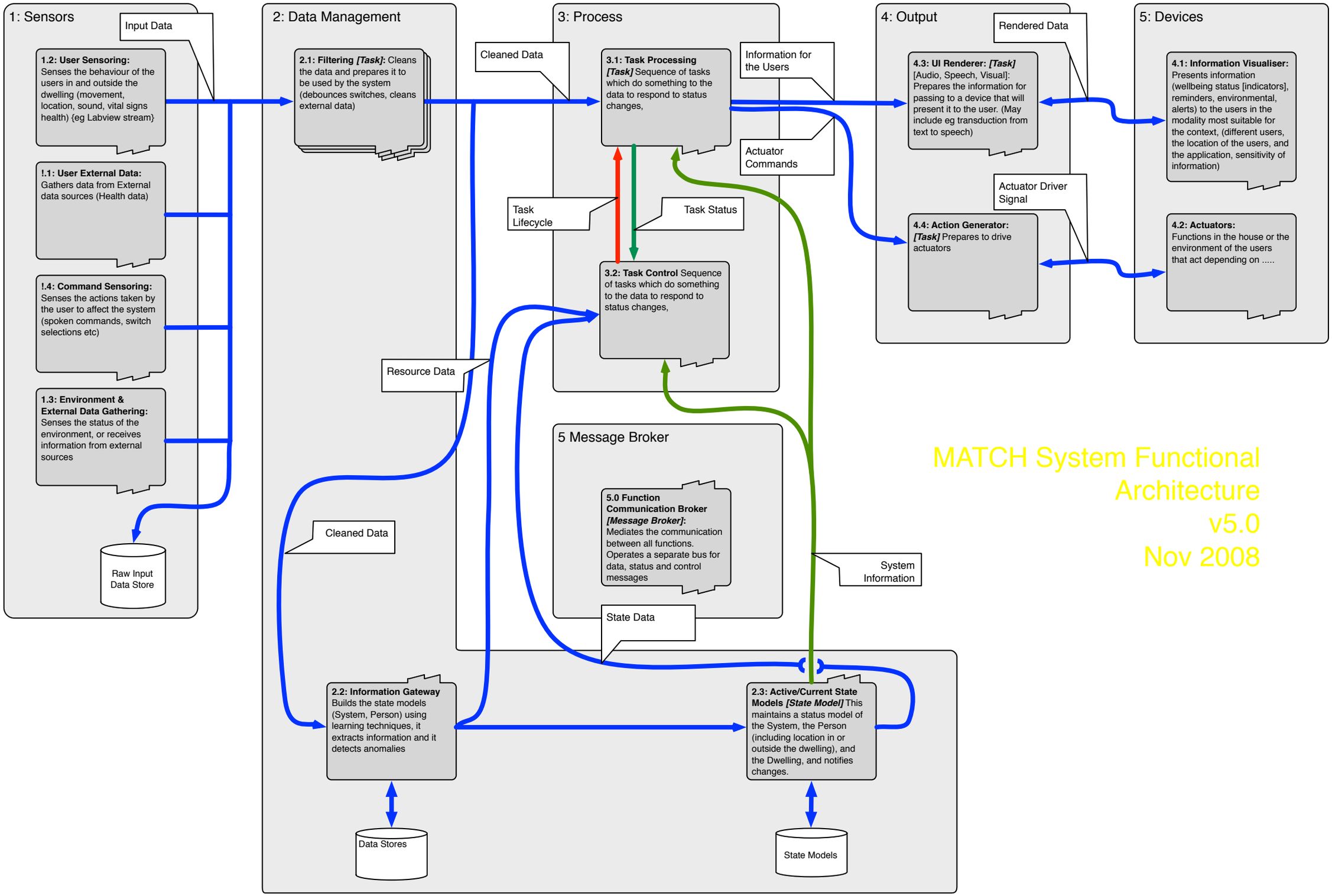
Telecare Technology ...

Functionality and User Experience

Functional Components of a Telecare System



MATCH System Functional Architecture
v5.0
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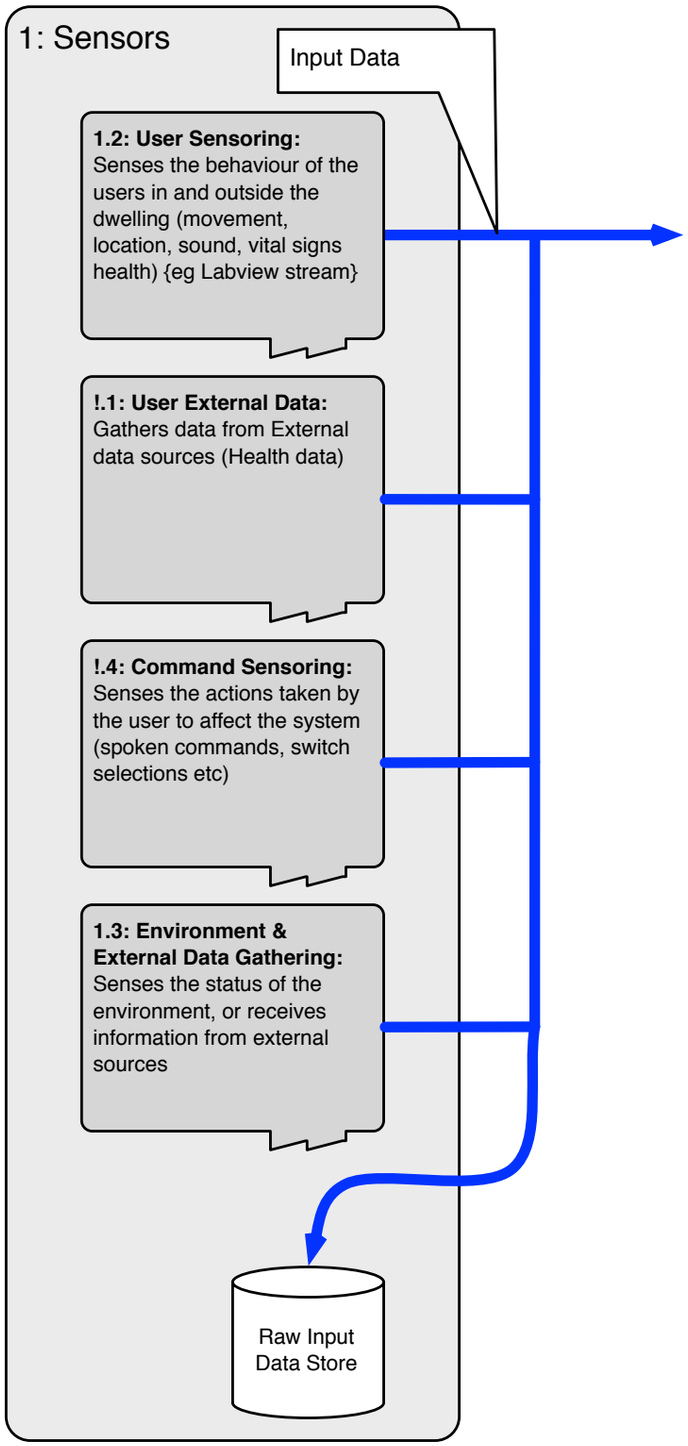
What Can Be sensed?



- User Behaviour
  - Activity
  - Physiological Data
  - Location
- User Metadata
  - Health Records
- User Commands
- Environmental & External Data
  - Weather Data
  - Events

User Behaviour Sensors

- 1 - Activity Monitors
  - 1.1 - White Goods
  - 1.2 - Communications Systems
  - 1.3 - Entertainment Systems
  - 1.4 - Home Systems
  - 1.5 - Intruder Alarm Systems
  - 1.6 - Safety Systems
  - 1.7 - Special Sensors
  - 1.8 - Special Sensor Arrays
  - 1.9 - Location Detection
- 2 - Interconnection and Data Paths
  - 2.1 - Wireless
  - 2.2 - Wired

MATCH Floor Mat

- 2m x 1m Floor Mat to detect gait

Detecting Change

- Granularity
- Threshold
- Frequency
- Rate

Data Processing

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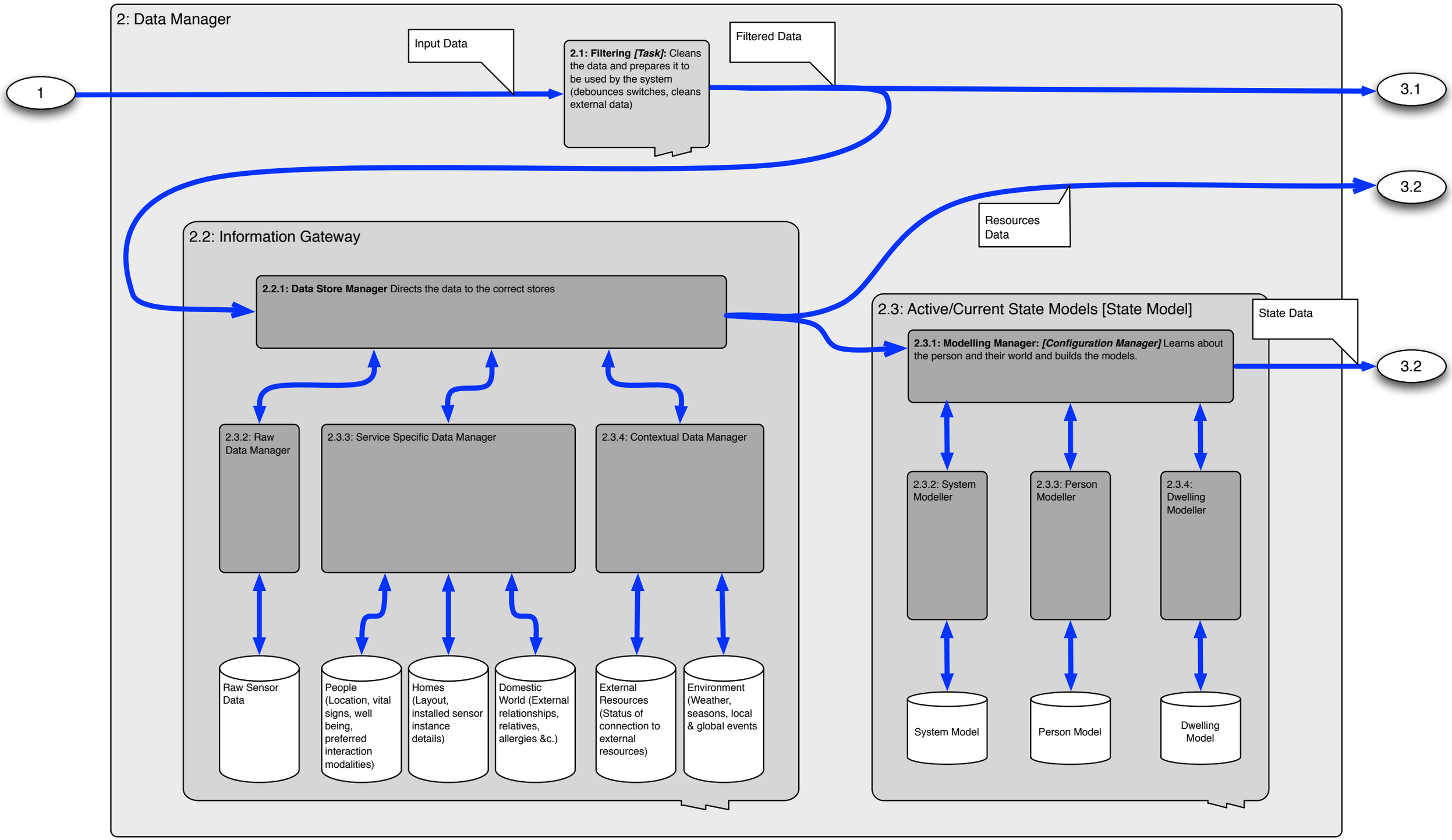
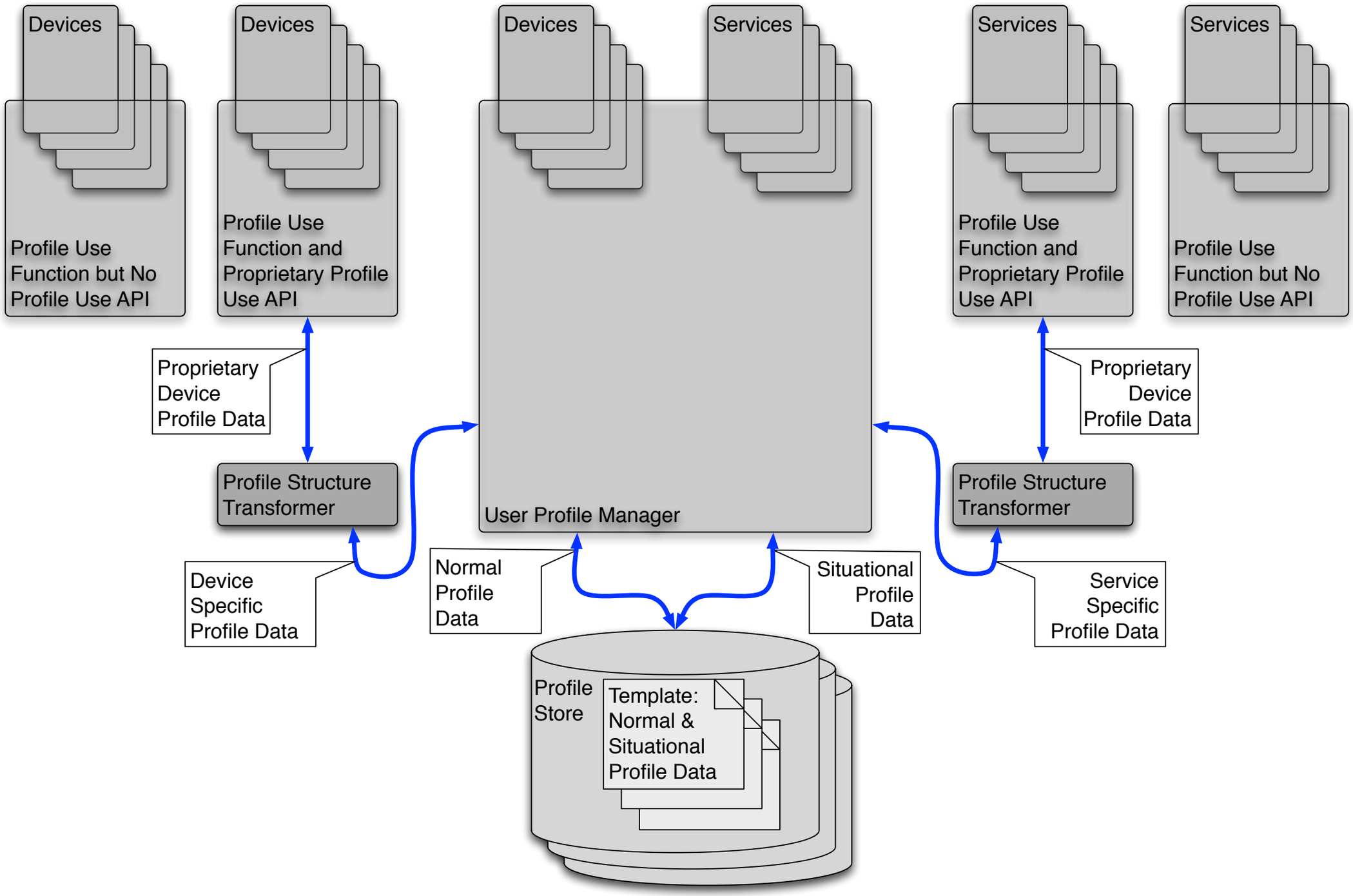


Detecting Change

- What has changed?
  - What was the state before change?
  - What is the state after change?
  - Does the change matter?
- The meaning of the change is ...
  - Generic ... (high blood pressure is always worrying)
  - Person specific ... (sleeping patterns)
- The user will need a generic and a specific Profile.

User Profile Usage



Practical Exercise: Sensing Change in your

- What changes does the client want to know about themselves?
    - How will that be detected/measured
- What changes do carers need to know in order to be able to care?
    - How will these things be detected/ measured