CitiSense - Adaptive Services for Community-Driven Behavioral and Environmental Monitoring to Induce Change♪

William Griswold (PI)   Ingolf Krüger   Kevin Patrick+   Tajana Šimunić Rosing   Sanjoy Dasgupta   Hovav Shacham

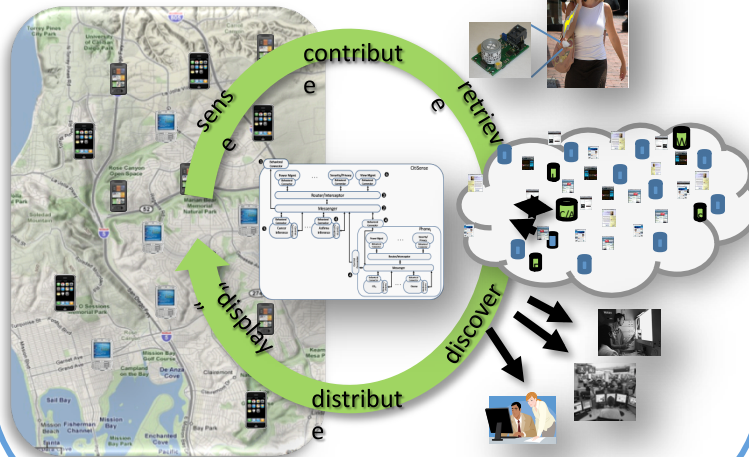Piero Zappi   Nichole Quick+   Celal Ziftci   Caleb Crawford   Nakul Verma   Nima Nikzad   Priti Aghera
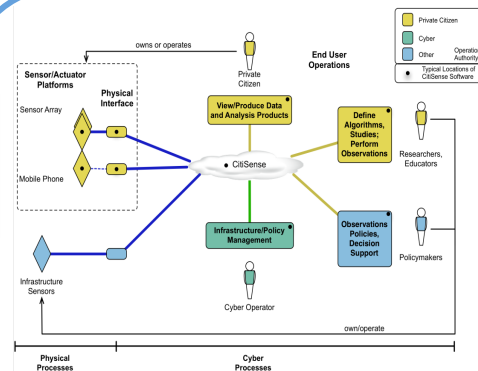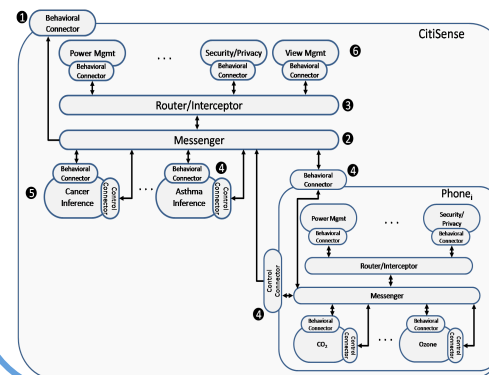
UC San Diego

Motivation & Concept

- Air pollution is a pervasive problem
- Environment is under-instrumented
- Idea
  - Continuously monitor with wearable and environmental sensors
  - Aggregate data for analysis,
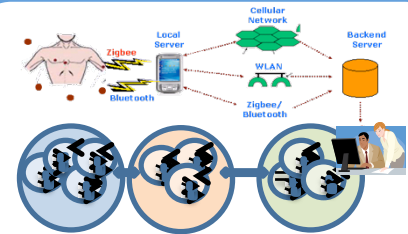 - Reflect results back to populace
- Considerable Challenges

System Architecture

Rich Services
Service-Oriented
Architecture

Energy Management

Security & Privacy

(Supply secret key to read)♪

Progress & Next Steps

- **Algorithms**

- **Sensor-node implementation**

- **User studies**