

Diane J. Cook

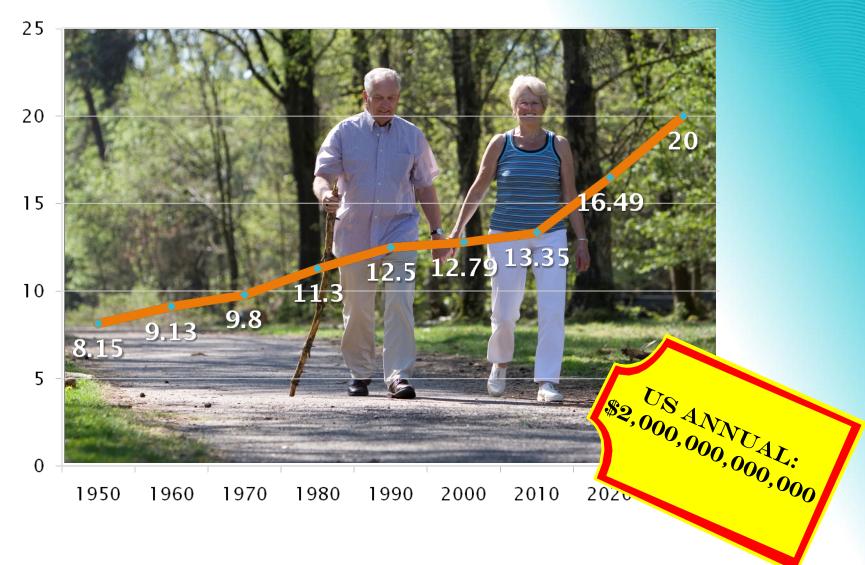
Huie-Rogers Professor, School of EECS
Washington State University

211-11 11/26/11



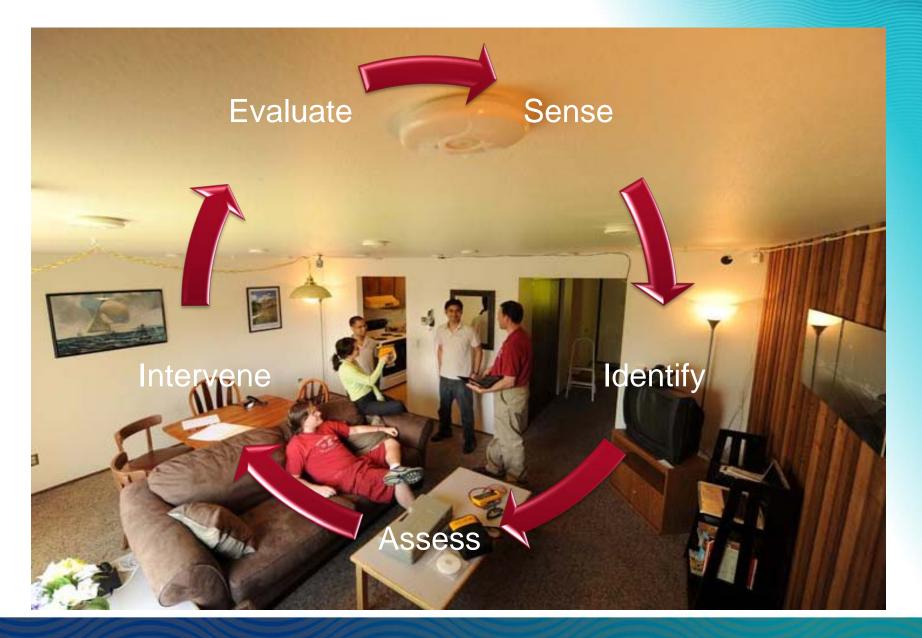
# **Aging of Society**

Trend in percent of individuals 65+





### What is a Smart Environment?





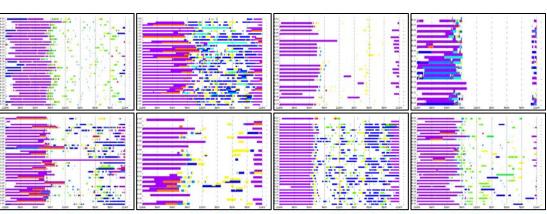
### Sense

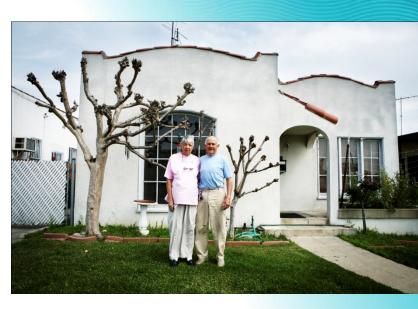




## **Identify**

- 30 homes
- Complex conditions
- 20 activities
- 90% accuracy predefined activities
- Discover patterns in remaining data







#### **Assess**

#### 400 participants

- traditional assessment
- smart home ADLs





#### **Automated classification**

92% accuracy



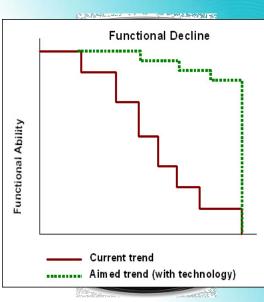
### Intervene & Evaluate

Context-based

Prompt only if task not initiated

Prompt can be re-issued







I will do it now



I will do it later



I've done this task



I won't do this task

## **Ongoing work - Longitudinal Study**



# **Ongoing work - Commercialization**









For more information

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