Robots as a Tool to Support Everyday Health

Casey Bennett, PhD

- **Dust/Allergens**
- **Indoor CO_2 Levels**
- **Temperature**
- **Heavy Metal Exposure (Aluminum, Lead, Mercury)**

Preventing the *Progression*

Treatment is a sequence of decisions

The problem is not the **70%** of the time we get it right … it is the **30%** we don't

An exercise in *behavioral re-engineering*

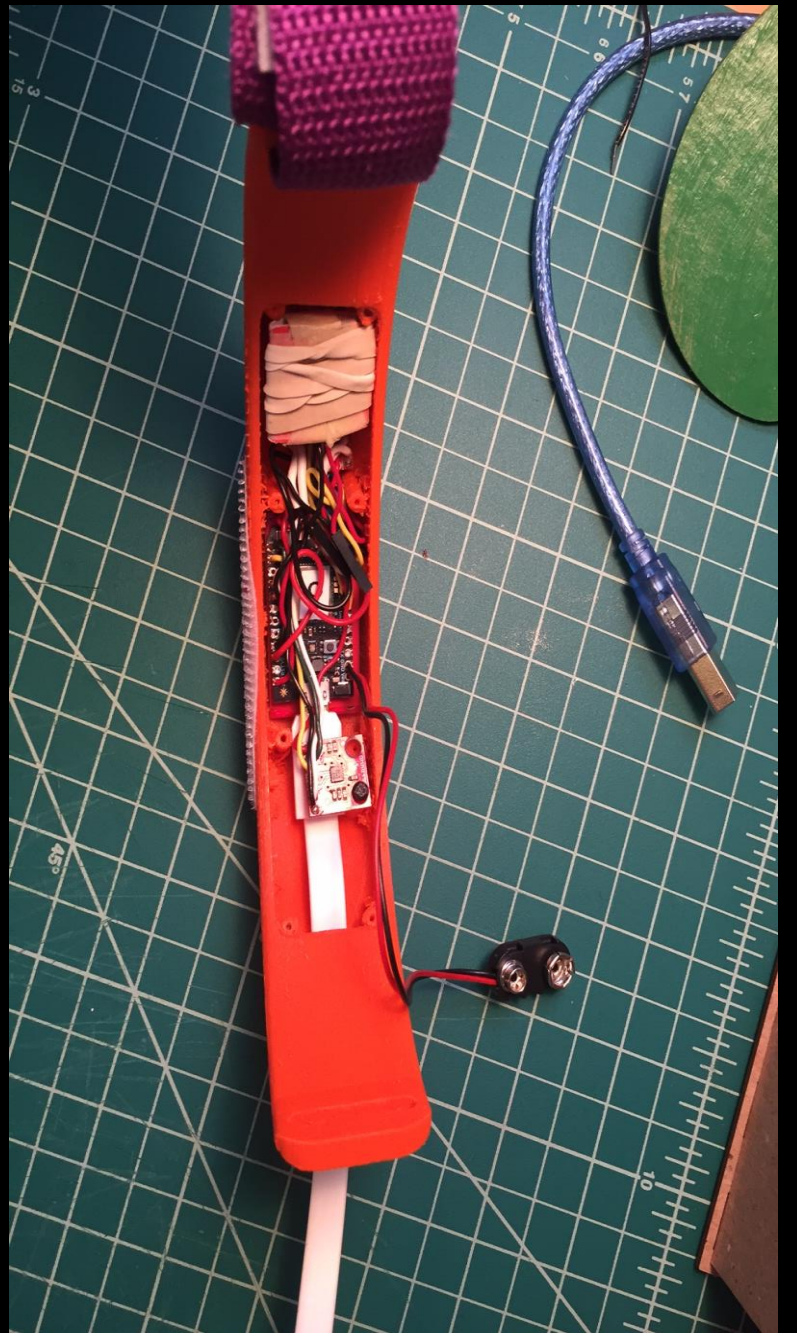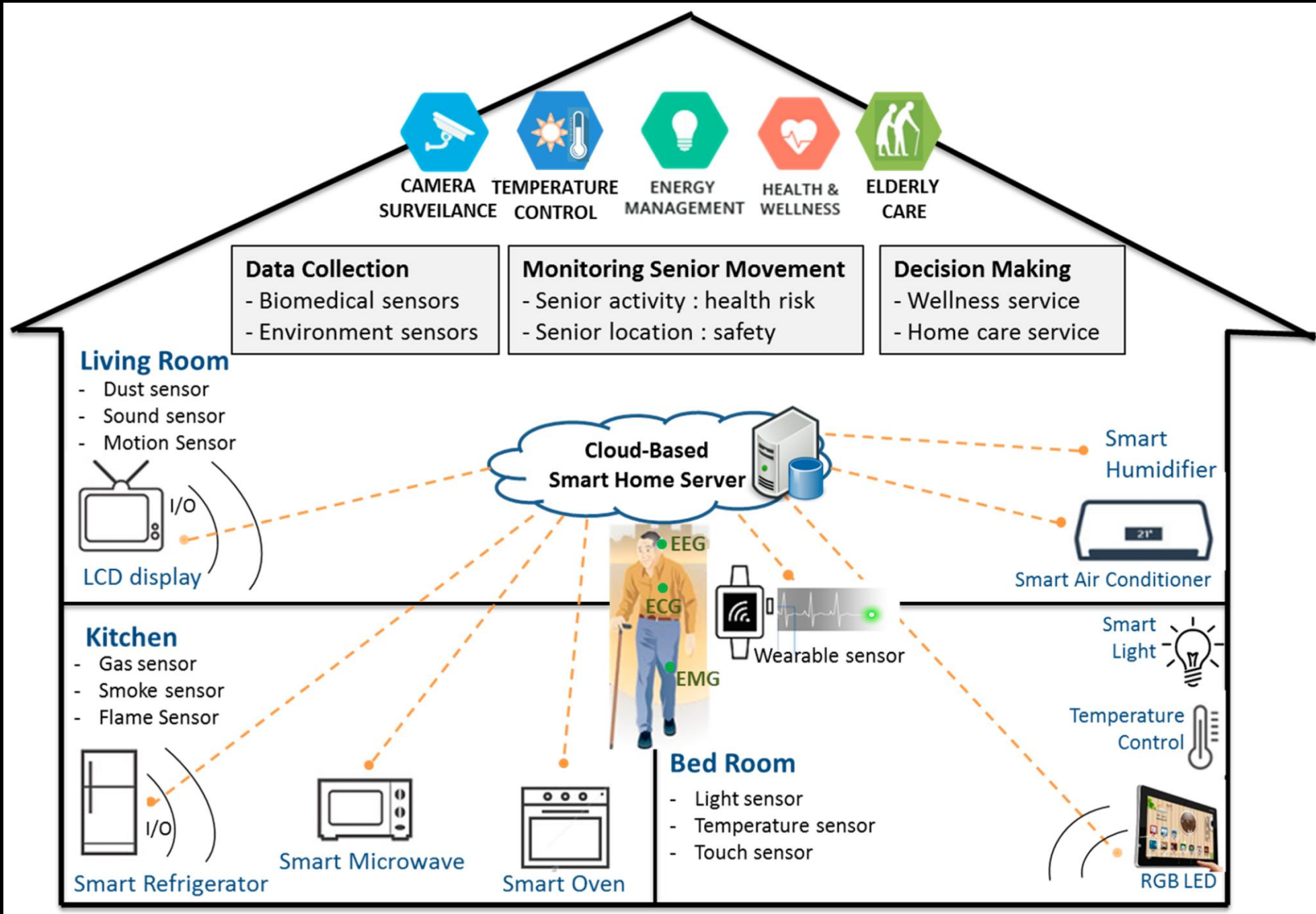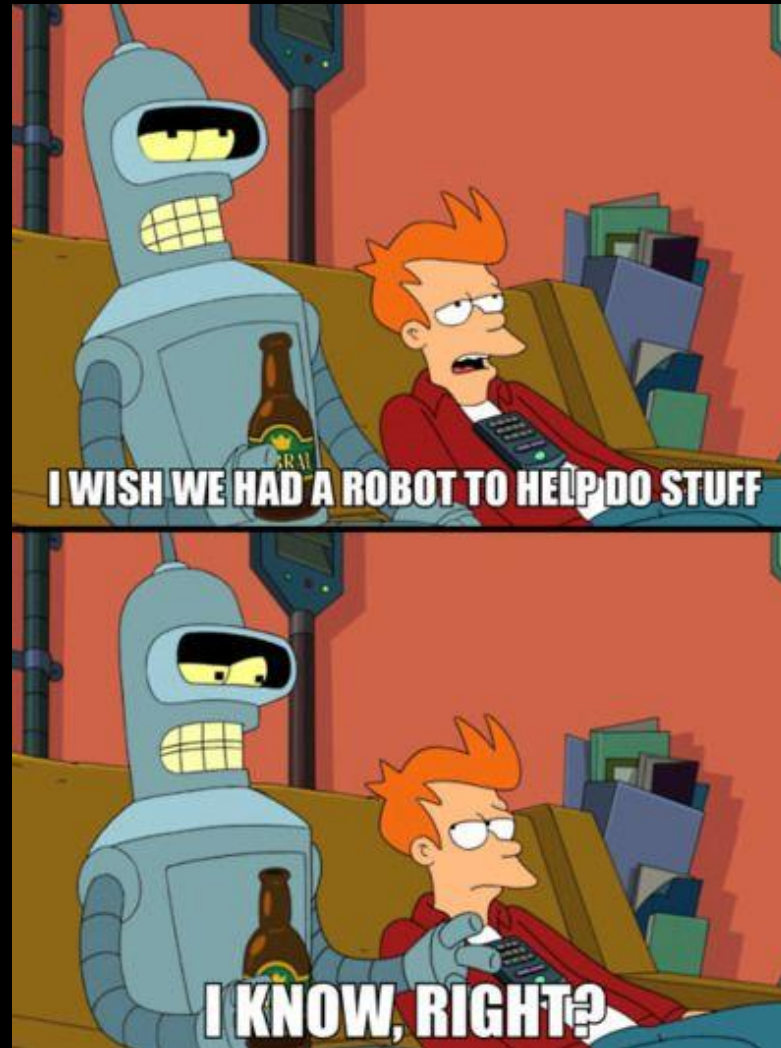**Combining lots of different pieces – Artificial Intelligence, MDPs, Machine Learning, Clinical Decision Support Systems, Robotics, Remote Sensing – into *layers*, in the same way a car engine has different components**

- Artificial Intelligence

- MDPs

- Machine Learning

- Clinical Decision Support

- Robotics

- Remote Sensing

- Spark Ignition

- Carburetor

- Fuel Injectors

- Piston/Engine Block

- Radiator

- Alternator

Questions? Contact Me:

- www.CaseyBennett.com
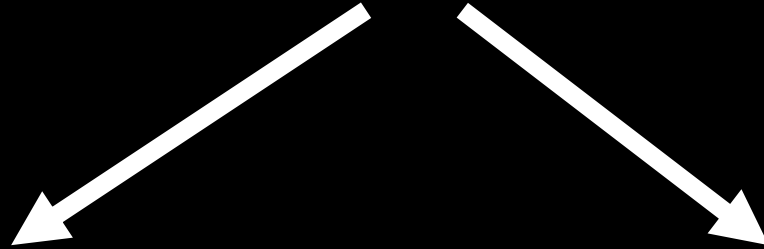
- cabennet@indiana.edu

- Casey.Bennett@CVShealth.com
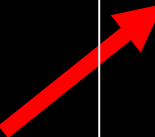
APPENDIX

Some Case Mgmt intervention examples …

Service Types
Care coordination among healthcare providers
Community resource referrals
Disease support services
Post-hospital care
Wellness services

Depression Interventions
Administer PHQ9
Assess Symptoms
Assess Med Adherence
Social Needs Assessment
Identify Treatment Barriers
Review Treatment Goals
Arrange PCP visit
Request Physician Med Review
Request Physician Tx Plan Change
Arrange Mental Health visit
Arrange EAP