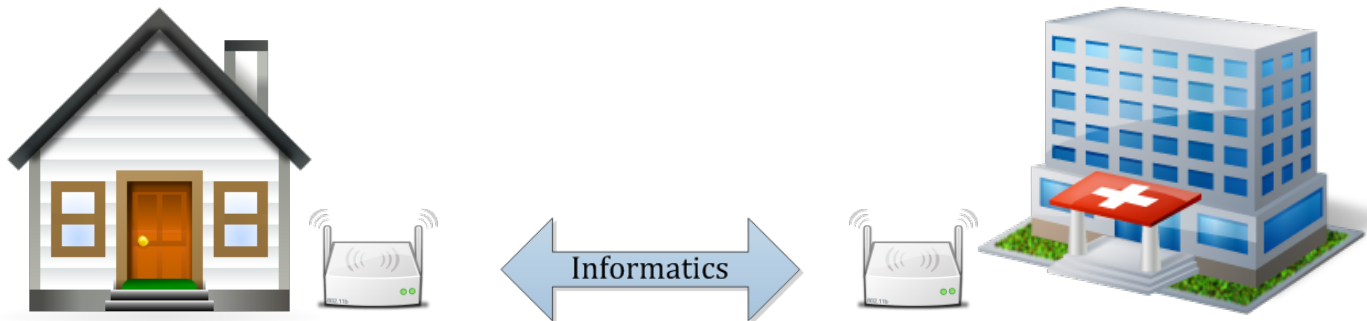


# HomeSHARE and Information Security Questions

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# Broad Research Goal



Older Adults and  
Smart Technologies



Organizations and  
Information Systems

# Diversity of Devices

1. Installed (“smart home” devices such as motion sensors)



2. Mobile (smart phone, tablets, personal health devices)



3. Wearable (smart watch, activity monitors, smart textiles)



# Challenges

- Technology

- Rapid change
- Usability
- Acceptability
- Abandonment
- Diversity of devices
- Battery life

- Data

- Usefulness
- Quality (Timeliness, Completeness, Accuracy)
- Formats
- Storage and Hosting
- Security

# Information Security Questions

1. How do we manage challenges of siloed data from individual vendors?
  - a) Who really owns these data?
  - b) What are the implications of a vendor change in data management policy?
  - c) Changes in subscriber model?
  - d) Changes in ownership/bankruptcy?
  
2. Is it wise to store device data in clinical data warehouses?
  - a) Any personal data merged with health data also becomes health data
  - b) These data are then covered by HIPAA
  
3. What is the best model for a financially sustainable open platform that allows secure data management at the device, home hub, and internet server levels?
  - a) Should this platform be HIPAA compliant or should that be handled by a separate system that federates non-health data with clinical data?