

## Engaging Older Adults to guide low-cost non-wearable sensor technology development to age in place

### Survey findings

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### INTRO

- Cost-conscious, convenient in-home sensing will assist with chronic disease management, and become part of a long-term plan to support our aging population and shrinking healthcare workforce.

### METHODS

1. N = 112
2. In-person and on-line surveys
3. Tested with chi-square statistical test in SPSS

### RESULTS

- Opinions and preferences for sensor type/number/install location, and data sharing significantly differed ( $p < 0.05$ ) by home living arrangements (independent, 55+ or continuous care communities).
- Changes in technology use were observed pre- versus post- COVID. Respondents living in 55+ and continuous-care housing were more comfortable with having sensors installed in their homes than those in community dwelling independent housing

### DISCUSSION

- Our surveys determined that our sensor system must be flexible enough to accommodate individuals at different life phases and comfort levels, with different home environments and support systems

### FINANCIAL DISCLOSURE

- NSF grant # 1951880

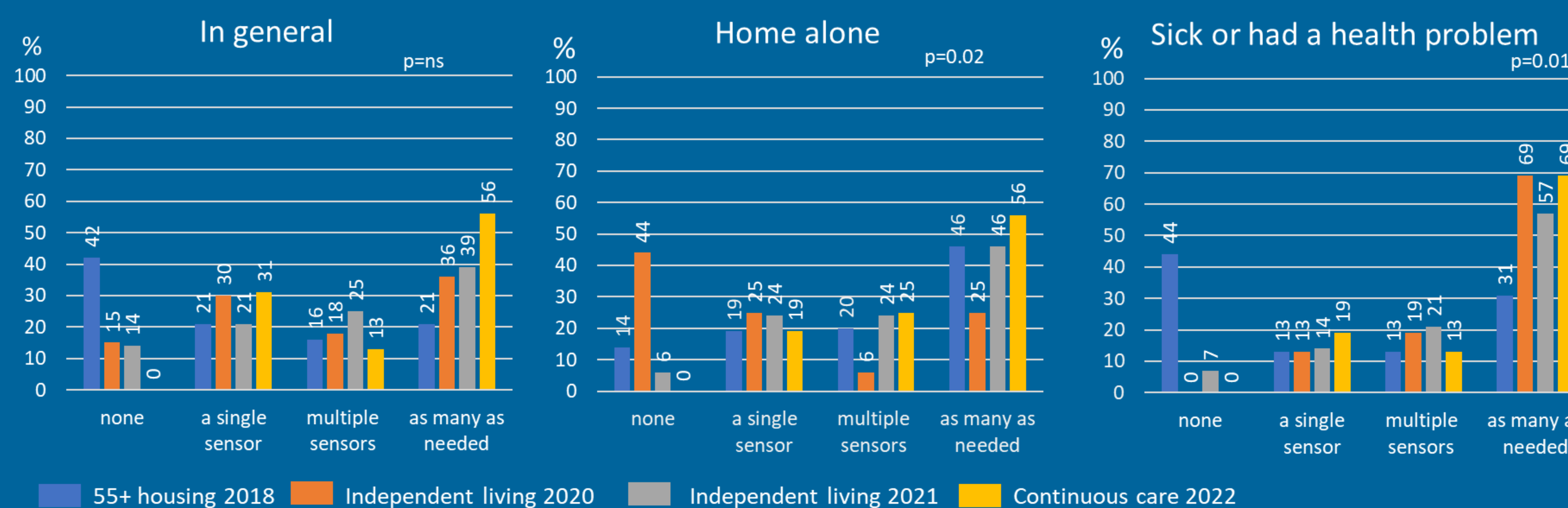


Contact Information:

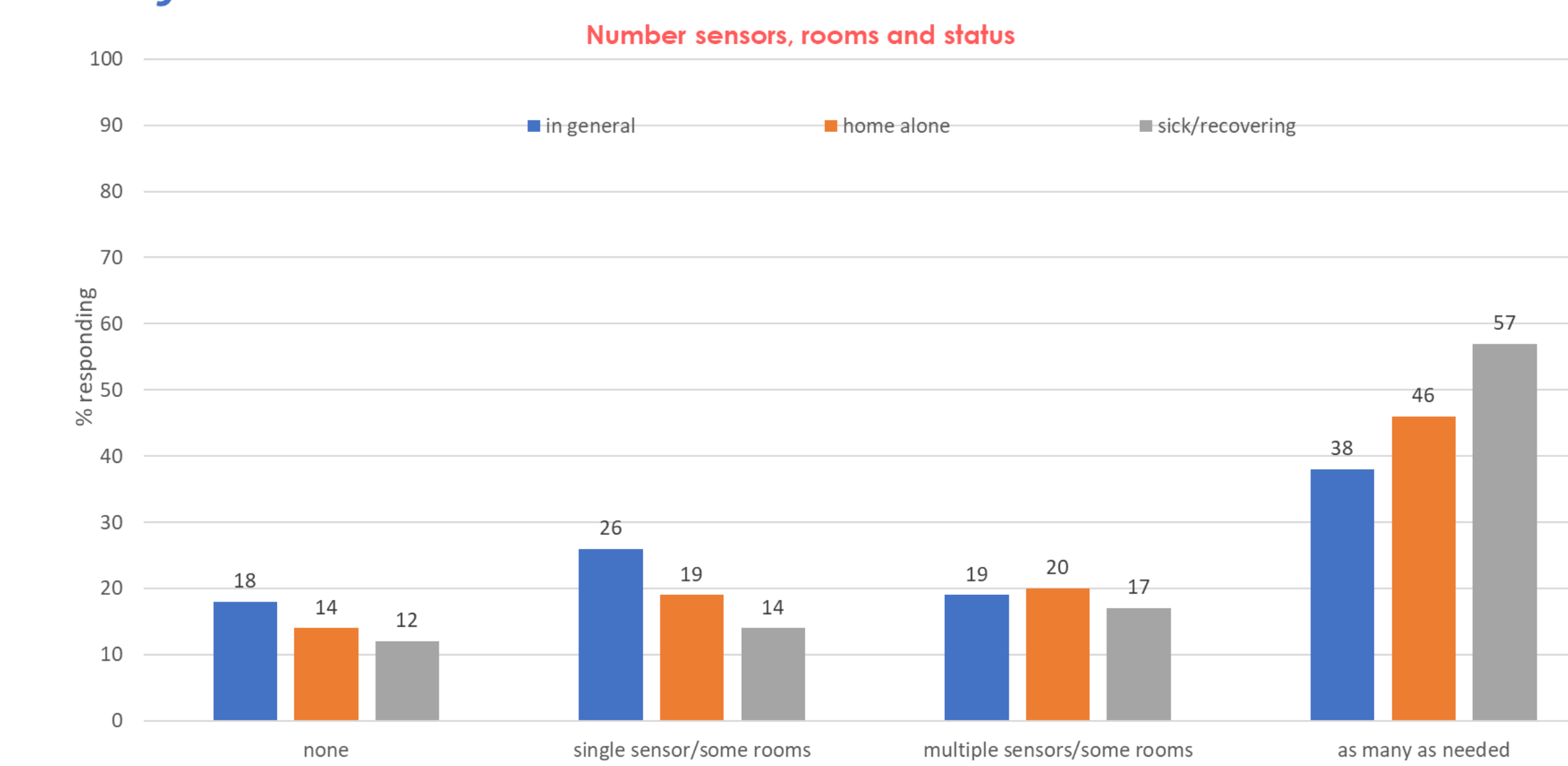
elinor.schoenfeld@stonybrook.edu  
If interested in collaboration, please use this QR code to enter our REDCap survey to provide your contact information



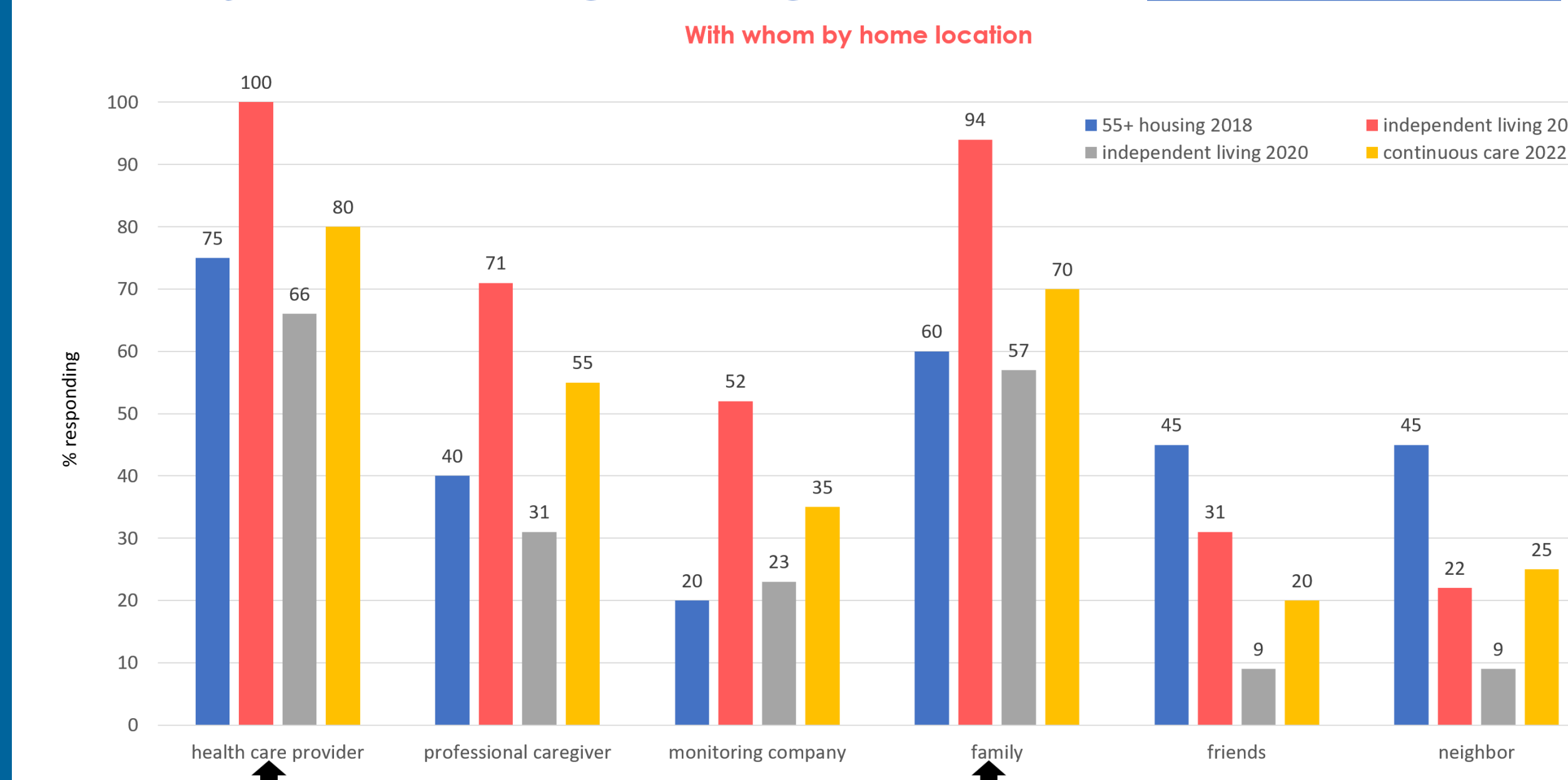
# Obtaining insights from diverse end-user groups is essential to achieving success in technology development and implementation for aging in place. Technology must be flexible enough to address individual preferences for use, data sharing and security to facilitate acceptance.



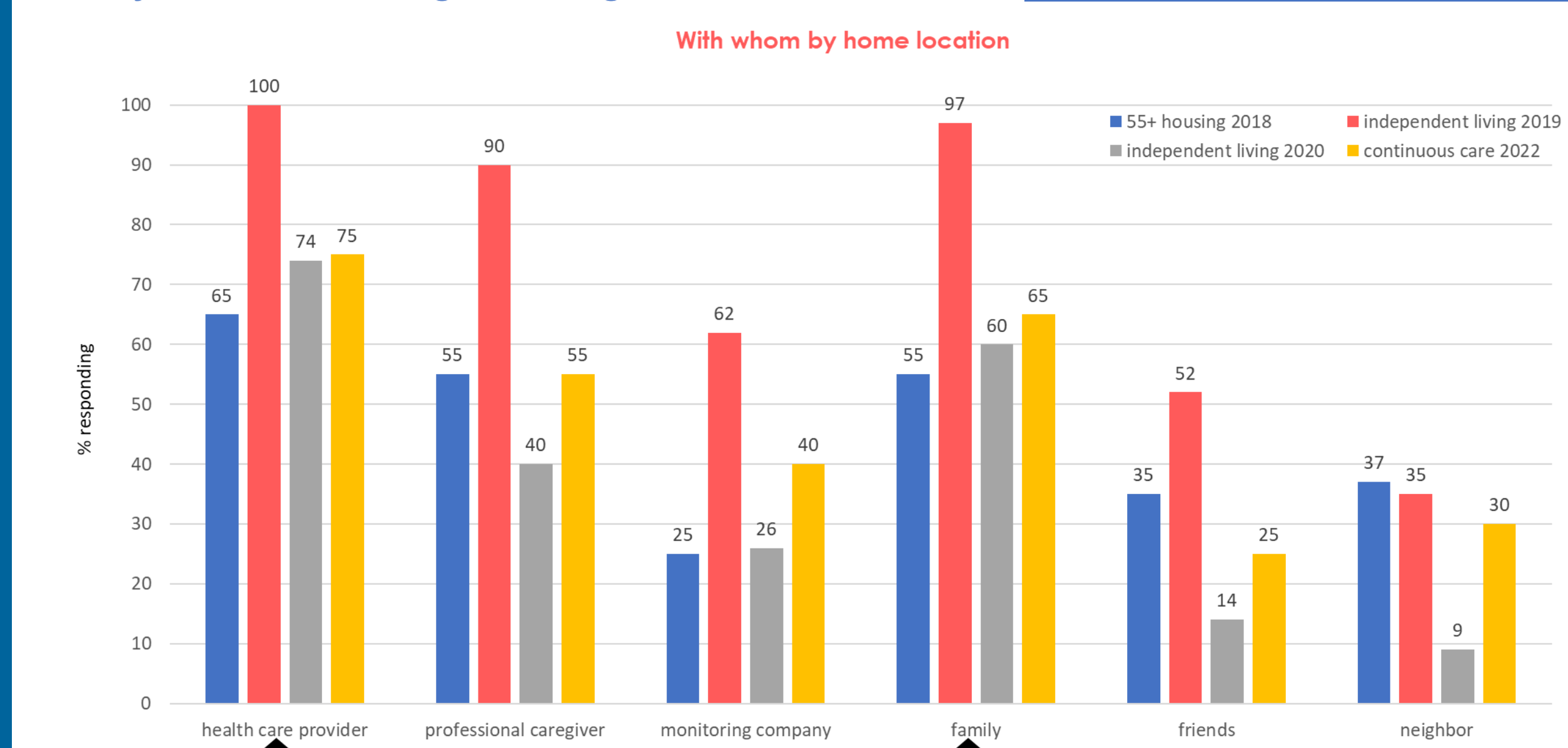
### Comfort with home installed wireless radio sensors



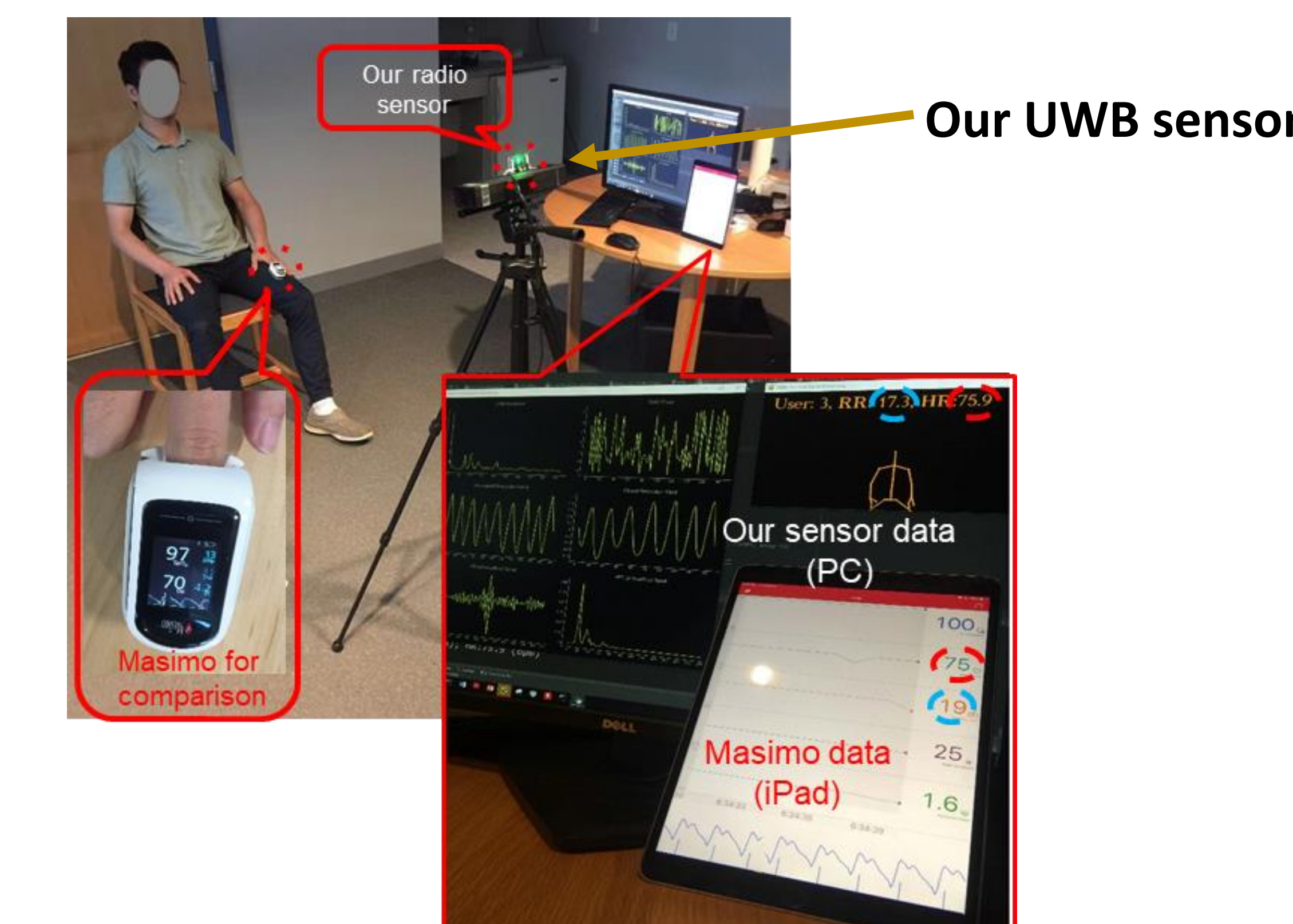
### Comfort with sharing sensor generated data on a regular basis



### Comfort with sharing sensor generated data when sick or recovering from illness



- Participants were more comfortable sharing data with health care providers and family members independent of health status
- Comfort level with all other groups increased when sick or recovering



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