The success of smart-home technology—much of it driven by optics and photonics—will depend on users making it part of their everyday routines. A 2020 study in *Frontiers in Psychology* considered user-centered scenarios for smart-home solutions—focusing on different needs for different stages of life.

### Issues
- Health problems
- Mobility difficulties
- Low physical activity
- Social isolation
- Fear of new technology

### Needs
- Therapy and telemedicine
- Automation of daily routines
- Assist activities
- Family interaction
- Simple to use technology

### Smart Solution: A centralized system that assures privacy and automatically supports users without need to directly manipulate devices.

### Focus
- Sensors provide reminders for medicine and monitor for crisis situations
- Helper robots perform household tasks

### Sensing
- Sensors monitor health/stress levels and provide guidance
- Family room equipped with family-friendly AI educational and exercise programs

### Source:

Photos: Getty Images / Infographic: Alessia Kirkland