

# Assistive Technology for Aging Adults: Safety & Cognition



**MERCARIK**  
ASSISTIVE TECHNOLOGY FOR INDEPENDENCE

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Mercarik



Strengthening Caregiver Roles. Identifying Care Receiver Needs.

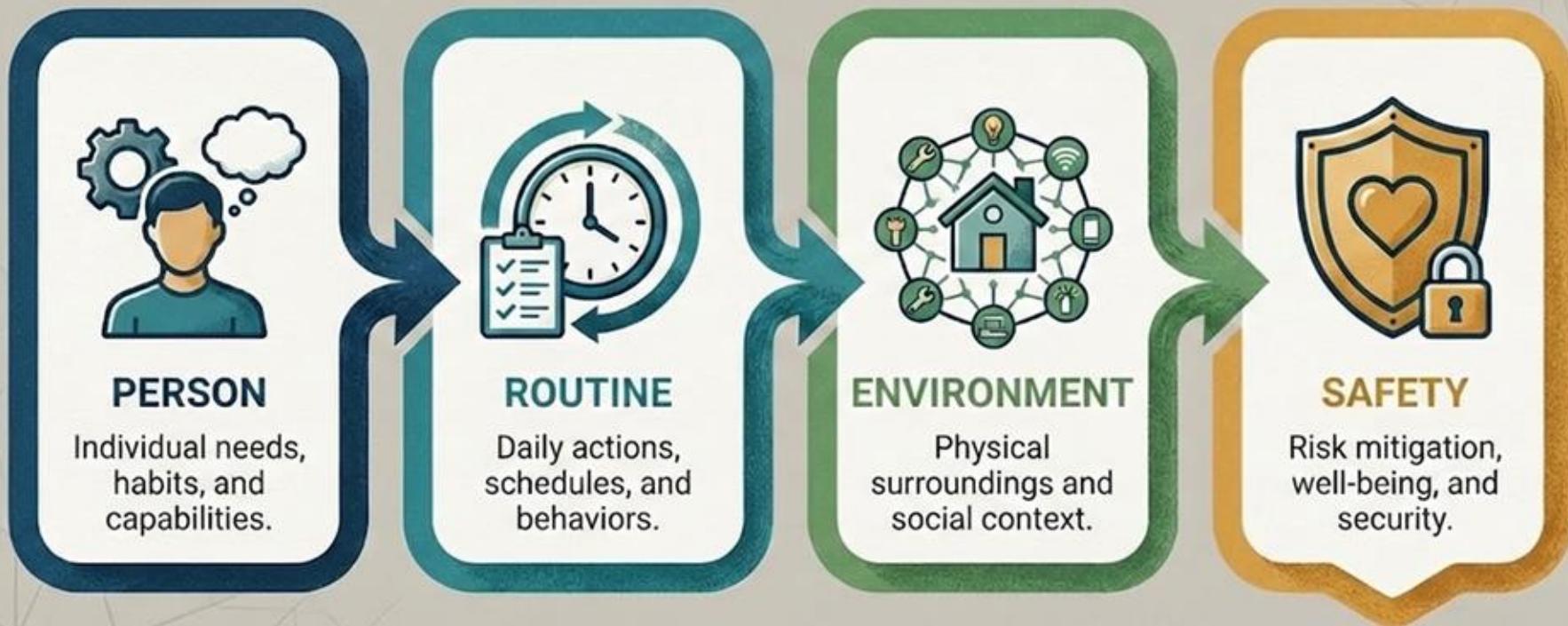
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# How We Think About Safety & Cognition

- Focus on routines, decision-making, and real-world risk
- Cognition and safety are closely connected
- Goal: reduce cognitive load—not add complexity
- Technology must support people and systems

# The Pathway to Safety

Connecting Person, Routine, and Environment for Secure Outcomes



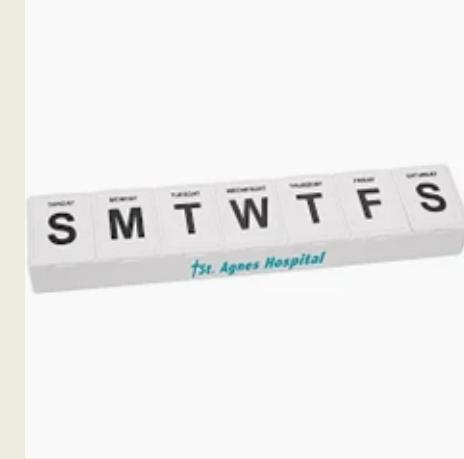
# Emergency Response & Reassurance (PERS)

- Wearable PERS (pendant or wrist)
- Automatic fall detection
- Mobile GPS-enabled systems
- Two-way voice response



# Medication & Health-Related Safety

- Timed medication reminders
- Locked automated pill dispensers
- Alerts for missed doses
- Automation level must match need



# Routines, Prompts & Cognitive Support

- Smart speakers for reminders
- Schedules and prompts
- Timers and task sequencing
- Predictability improves safety



# Environmental Safety & Prevention

- Automatic stove shut-off
- Motion-activated lighting
- Door and exit alerts
- Environmental supports reduce memory demands

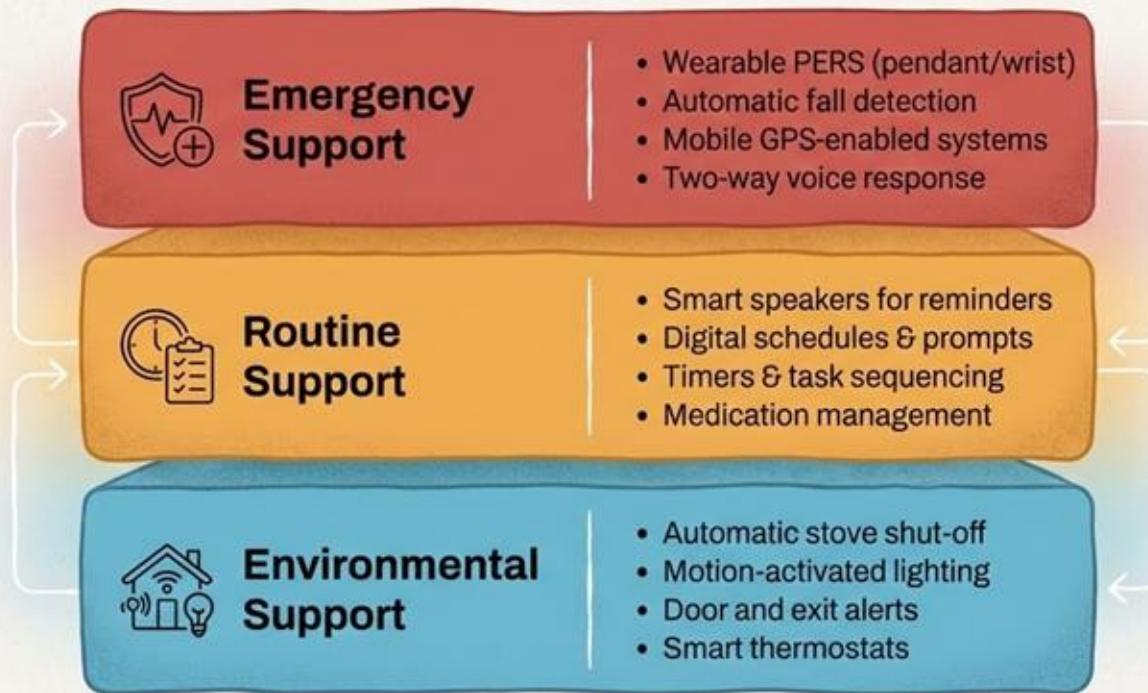


# Layered Supports & Key Takeaways

- Complex needs require layered solutions
- Team collaboration is especially important in these situations
- Combine emergency, routine, and environment supports
- No single best device—only best fit
- Training and follow-up prevent abandonment

# Layered Assistive Technology Supports

Combining emergency, routine, and environmental systems for comprehensive safety and cognition support



# When to Refer: AT to support Safety & Cognition

- Repeated safety incidents
- Medication errors
- Missed routines or appointments
- Increased supervision needs
- Technology already purchased but unused
- Staff or caregivers unsure how to support safely



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# Wrapping up

- These tools scale well in shared living settings
- Most effective when integrated into service models
- Collaboration makes technology sustainable