



# STACK CARE

AI driven spatial awareness,  
mapping, data science, and  
notifications in multiple  
environments

# The UK Senior Demographic

- *Our 2015 population had...“more than three million people aged over 80 years old. By 2030, this figure is projected to almost double, and by 2050 reach eight million”* [1]
- *“25 years from now, one in every four in Britain will be 65+. Ready or not, the “silver tsunami” is coming, and it is coming fast”* [2]
- *“Interventions...have significant potential to affect health in old age”* [3]
- *“Technology is likely to play an increasingly important role in providing health and care support... This may include the mainstreaming of technology-enabled care services, for example home health monitoring tools”* [3]

[1]: <https://www.england.nhs.uk/blog/catherine-thompson/>

[2]: <https://servicedepartmentnews.com/features/get-ready-for-the-silver-tsunami/>

[3]: [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/816458/future-of-an-ageing-population.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/816458/future-of-an-ageing-population.pdf)

# Quality Care At Home

- “UK found to be most established market for telemedicine among five EU countries” [4]
- New technologies are making **Quality Care At Home** possible for more people:
  - ➔ **Remote patient monitoring**
  - ➔ **Primary-care visits via Telehealth**
  - ➔ **Passive monitoring technology**
- Enables skilled nursing-facility services at home
- Quicker release from hospital

[4]: <https://www.pharmaceutical-technology.com/dashboards/surveys-dashboards/uk-found-to-be-most-established-market-for-telemedicine-among-five-eu-countries/>

# What if...



... you can see that Mrs. Jones may be suffering from a UTI before she does...



... you can prevent Mr. Lee from laying on the floor for hours after a fall...



... you can see that the temperature is too high for Mrs. Marin's safety...



... you can see that Mr. Amar isn't sleeping at night...



... you can detect the early signs of cognitive decline for Mrs. Roberts...



... you can know if Mrs. Roy exits her apartment during the night...

## A Few Numbers\*

- “Lie time,” or the duration of time spent alone helpless after a fall, is a direct predictor of the likelihood of recovery after falls
- For those who received help within one hour, rate for mortality or injury is considerably decreased (to just 12%)
- 82% of falls occur at night or early in the morning
- Poor sleep leads to 30 to 40 % increased risk of subsequent falls
- Frequent urination, increased thirst and hunger are number one symptoms of diabetes; and a typical indicator for UTIs
- Only 14% of seniors wear their PERS pendant daily, and even fewer at night

\* Various studies and research: NIH, AARP, KFF

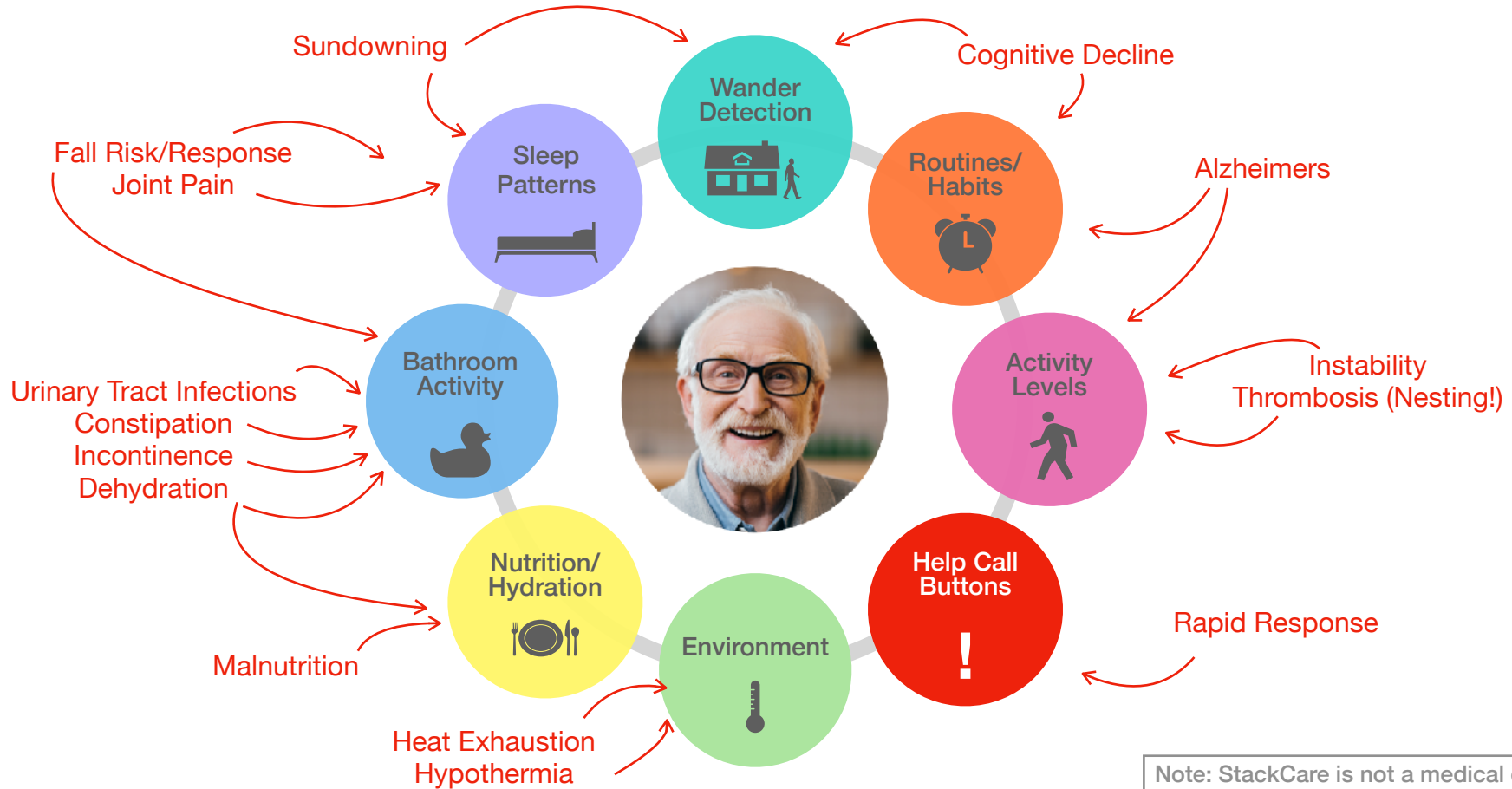
## So what is StackCare?



- Passive monitoring system
- Small infrared motion sensors and data science analyze typical activity patterns
- Identifies unusual activity or behavior 24/7
- Alerts caregivers and family of issues
- Notifications sent via app and web portal
- No cameras, no microphones, no wearables

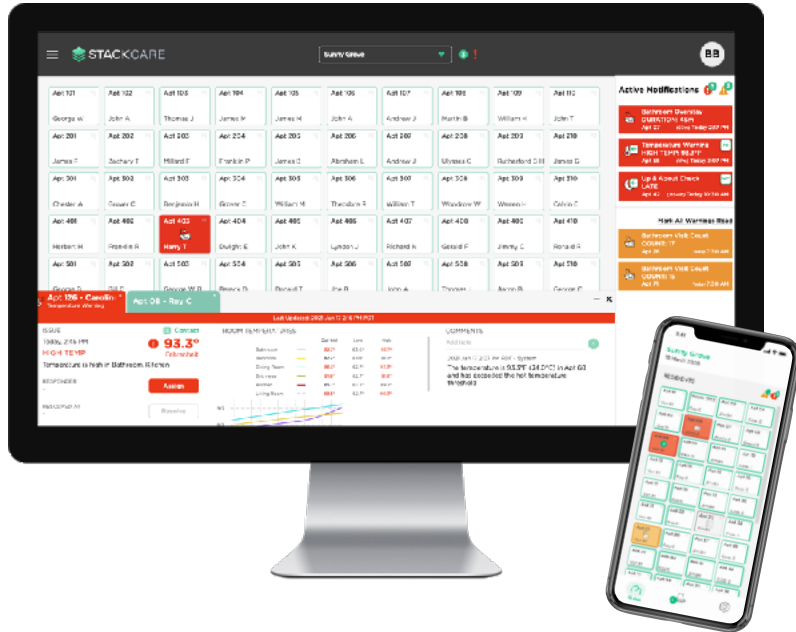
With StackCare, residents are **never completely alone!**

# StackCare Considers Multiple Issues



Note: StackCare is not a medical device

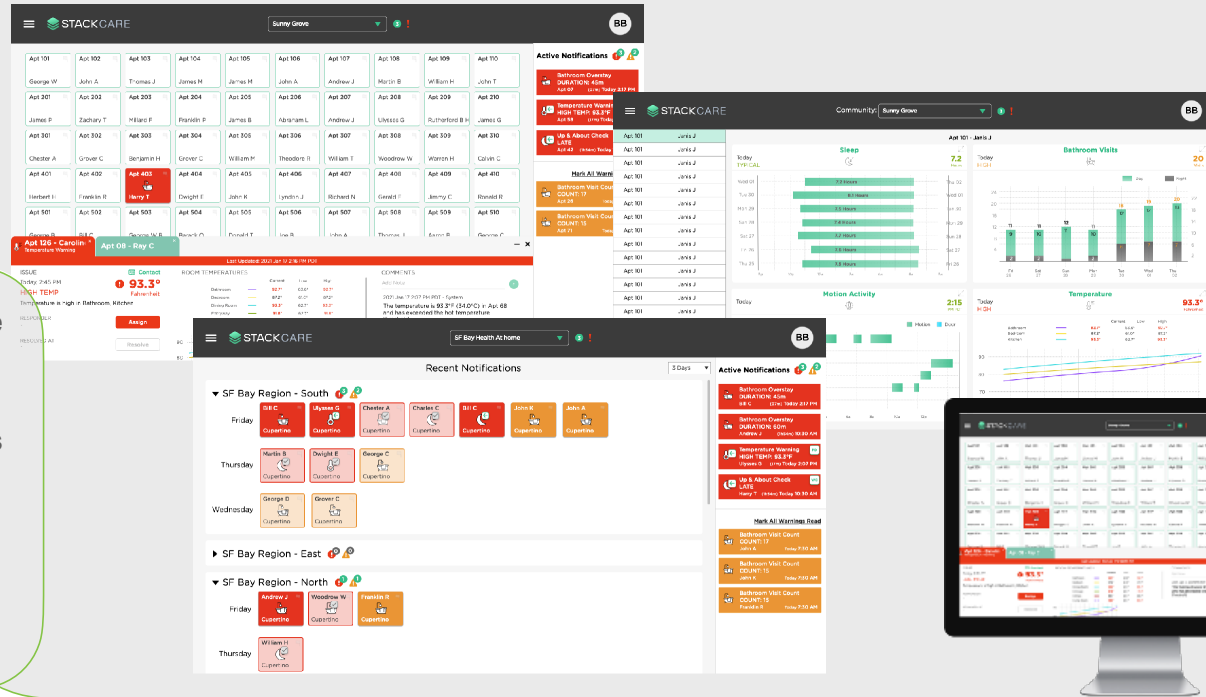
# Notifications pushed to mobile app and desktop portal





# Dashboards and Analytics For Professional Care

- Web App + Mobile
- Customizable
- Assignable events
- Recorded history
- Analytics
- Etc,



# Workload

1. Use StackCare **reactively**: responding to notifications/alerts
  - Rapid response to issues that would otherwise be invisible
  - Records events and resolutions
2. Use StackCare **proactively**: selectively take advantage of all the data and actionable insights StackCare provides
  - Enhance senior's care plan
  - Intervene early to help seniors stay healthier for longer
  - Additional information for medical providers



**STACKCARE**

**Thank You!**