

# The NeAT Workshop – Independent Living

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Supporting Independence

- Unitary – contiguous boundary with PCT & Acute Trust
- Population 244k in 2001 (now c 254k)
  - 40% under 25
  - 61% from non-White ethnic groups
  - 17.3% had "limiting long-term illness"
  - Over 100 languages spoken
  - 13.3k all-pensioner households
- 36.22 sq. km.

- Assisting vulnerable people to live independently, in control, with dignity and purpose...
- ...by helping manage the risks
- Newham Council, Newham Homes, NHS trusts, Police, Fire Service and voluntary bodies
- 4000+ installations by end 2007/8, & carer recording
- Strong desire to add telehealth monitoring

# Components of a Telecare System



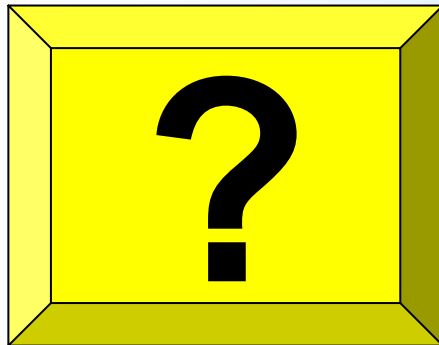
**SMART Sensors**



**Wireless alarm**



**Advanced Lifeline Unit**



**Appropriate Response**



**Control Centre**

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# “Standard” sensor set

- 2x smoke
- 2x flood
- Extreme temperature
- PIR
- Pendant
- Carephone

# Four of the biggest reasons why people opt for institutional care in Newham

- Carer exhaustion
- Regular enuresis
- Falls
- Distraction burglary

Therefore need to expand/personalise  
assessment & range of kit considered  
& consider context

eg consider:

- Bed sensor
- Chair sensor
- Falls detector
- Enuresis sensor
- Novel PIR uses
- Cooker/gas sensor shut off
- Bogus caller protector
- Door sensor/communicator
- Domiciliary care

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# Financial Benefits

- Residential care

Nursing care

care

**Quality of life improvement  
is greater benefit!**

- Hospital care
- Ambulance/A&E

# It's more than just the kit

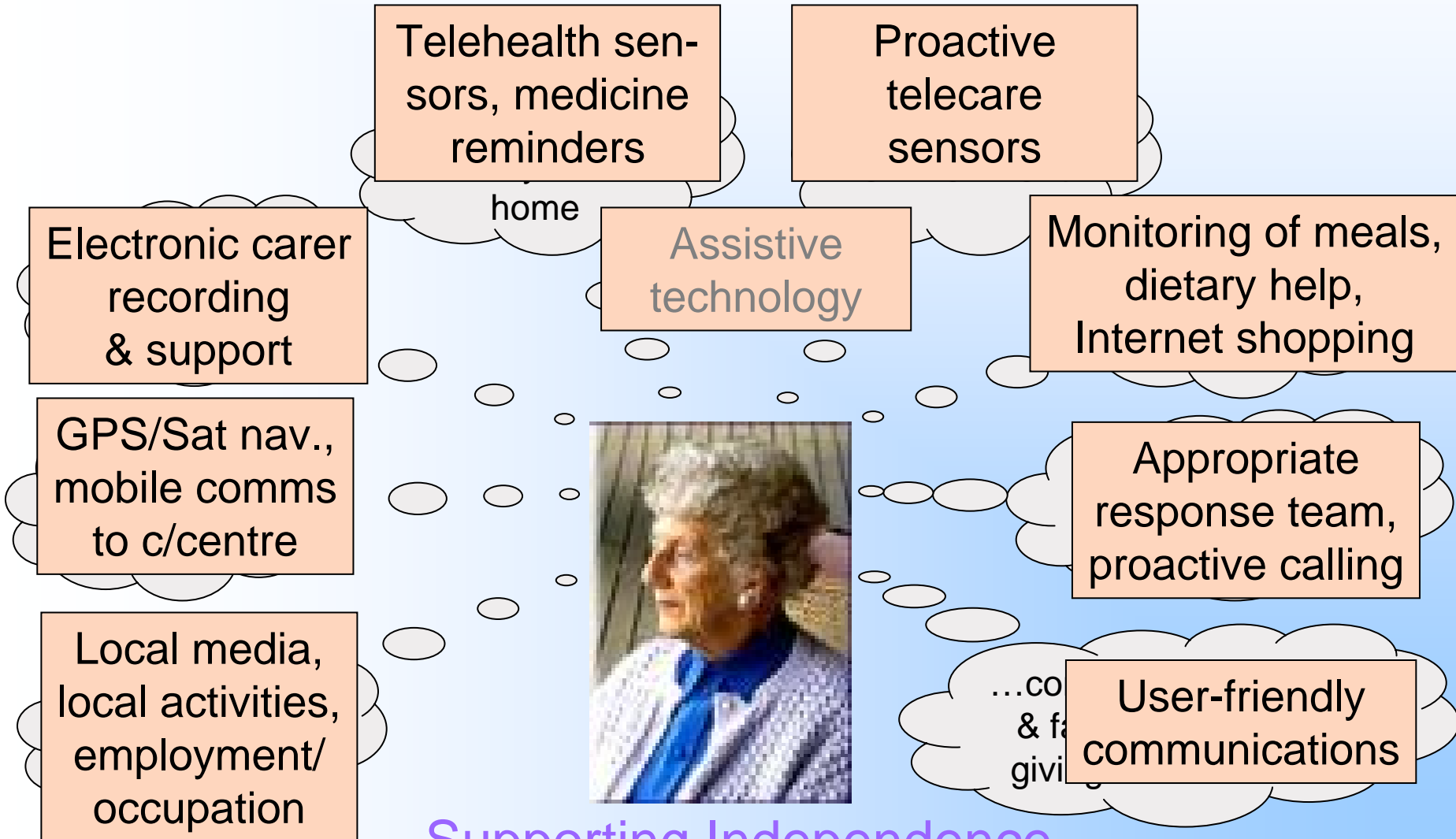
- Telecare offers a better way of caring for many users so need to
  - ...build into care p'ways
  - ...totally involve practitioners
  - ...engage all partners
- And need to establish protocols
- ...integrate systems
- ...change processes
- Challenge 'as is' metrics

# Some Issues

- Securing the right referrals
- Dementia
- Lost kit
- Influencing third party providers
- Appropriate response
- Payer  $\neq$  beneficiary

# Putting telecare in perspective

# ... To have the independent types needs...



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# ...and supported by:

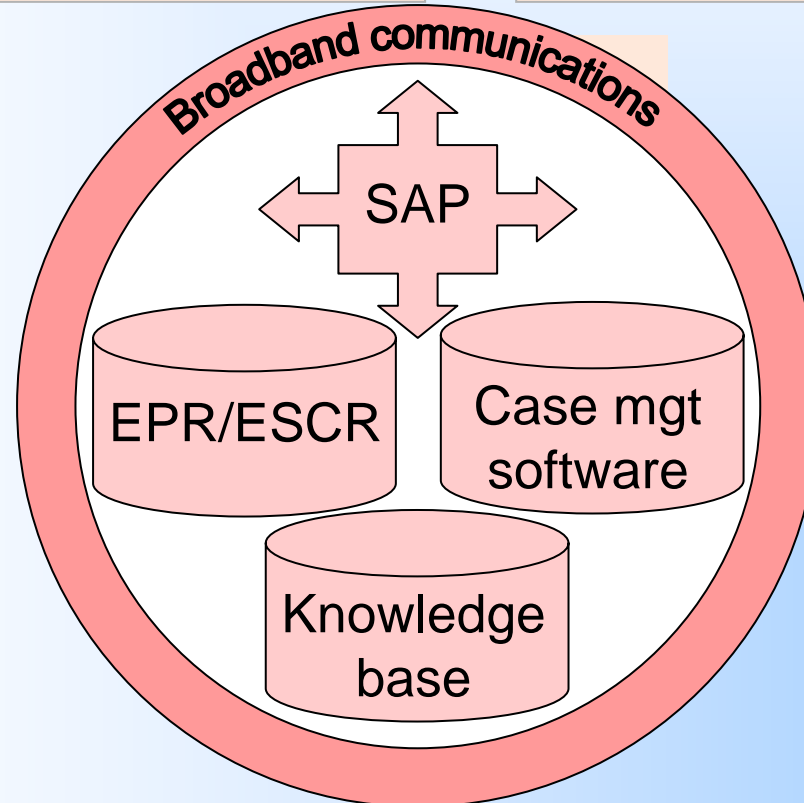
Telehealth sensors, medicine reminders

Proactive telecare sensors

Electronic carer recording & support

GPS/Sat nav., mobile comms to c/centre

Local media, local activities, employment/occupation



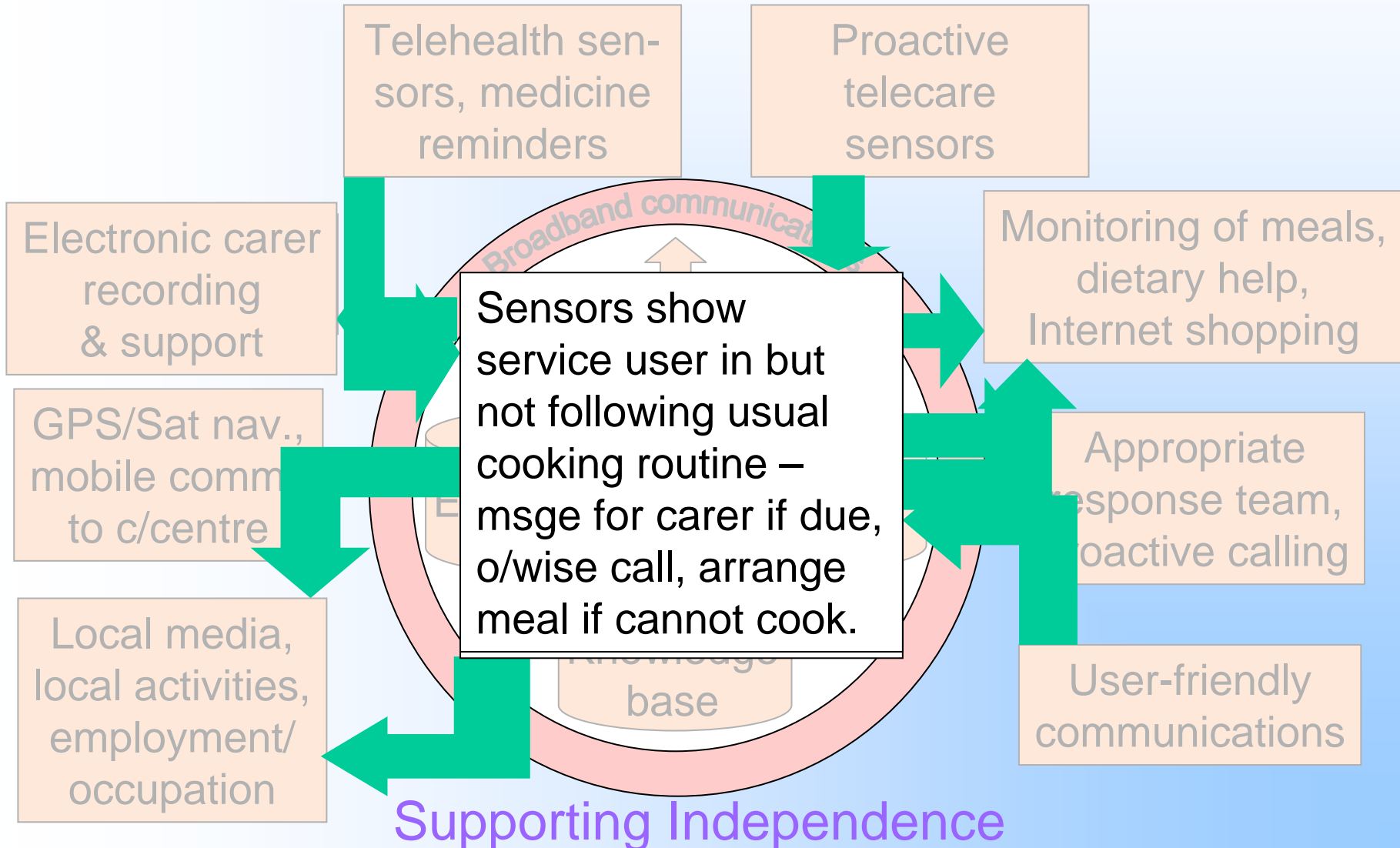
Monitoring of meals, dietary help, Internet shopping

Appropriate response team, proactive calling

User-friendly communications

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...so they can interwork,  
eg:

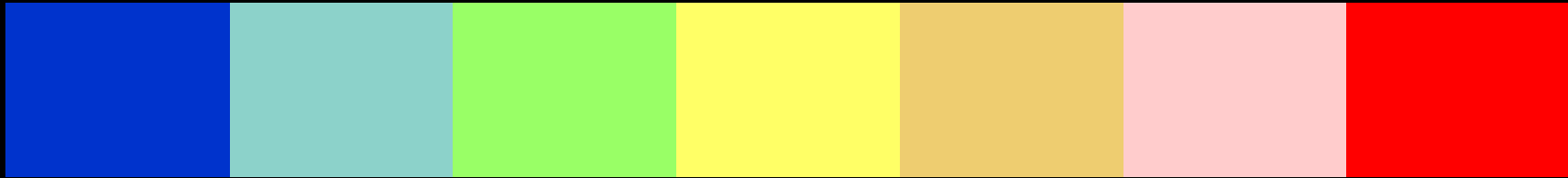


# Telecare & Telehealth Applications Continuum

**SECURITY**

**SOCIAL**

**NURSING**



**ENVIRON  
MENTAL**

**SAFETY**

**PERSONAL MEDICAL**

fire,  
floods,  
high temps,  
low temps,  
air quality,  
noise,  
hygiene

Intruders,  
bogus callers  
door status

wandering,  
falls, CO gas,  
scalds,  
unburnt CH<sub>4</sub>,  
tampering,  
cooker/μwave  
misuse

use of bed,  
little movement,  
bath monitor,  
lack of contact,  
poor nutrition

incontinence,  
pressure areas,  
chronic disease  
symptoms,  
medication compliance

cardiac  
arrhythmia,  
asthma attack,  
hypoglycemia  
epileptic  
seizure,  
blocked  
catheter,  
apnoea

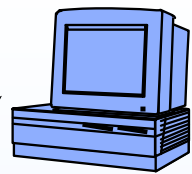
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# Emergency Response Team

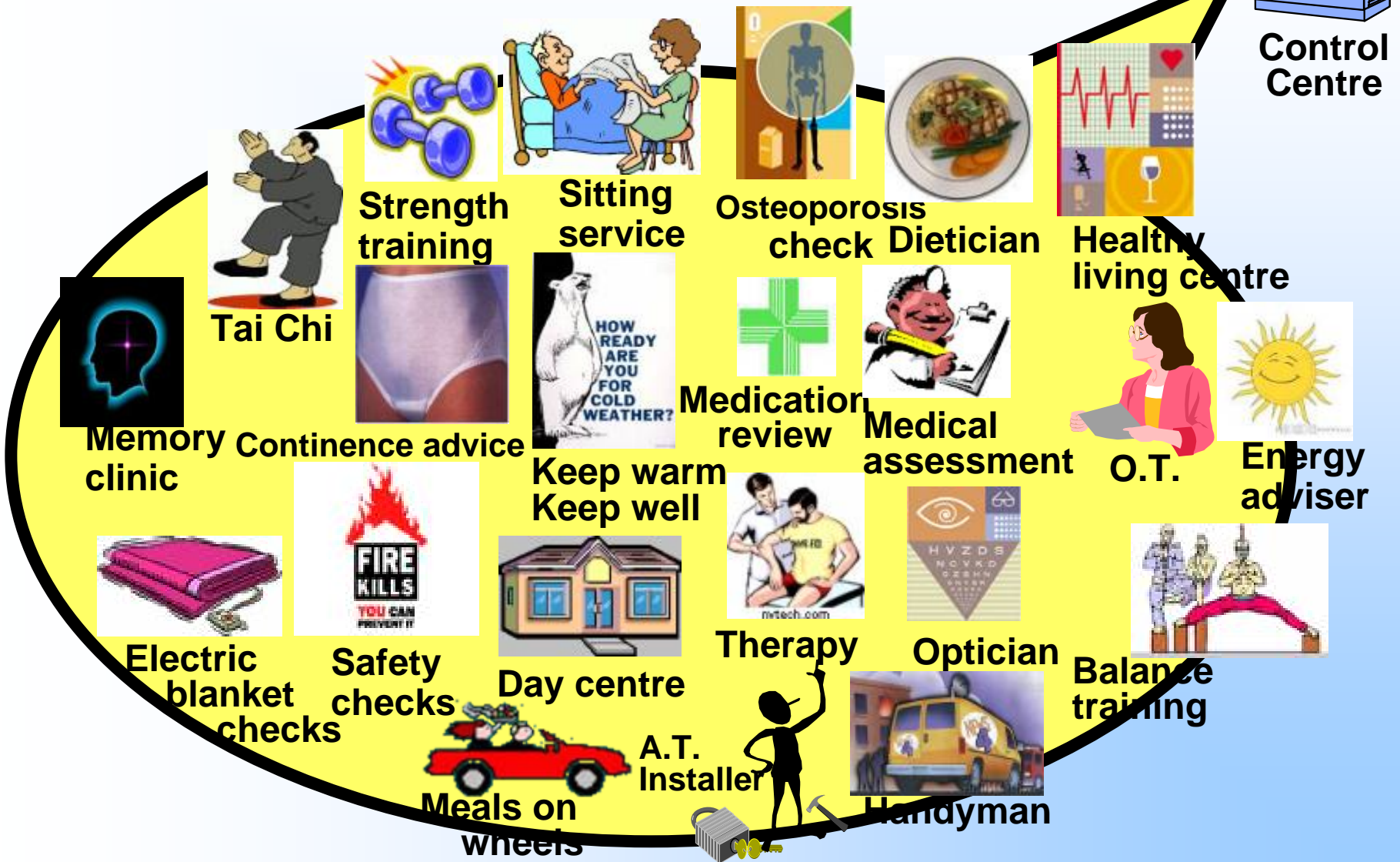


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# Integrated Care Team

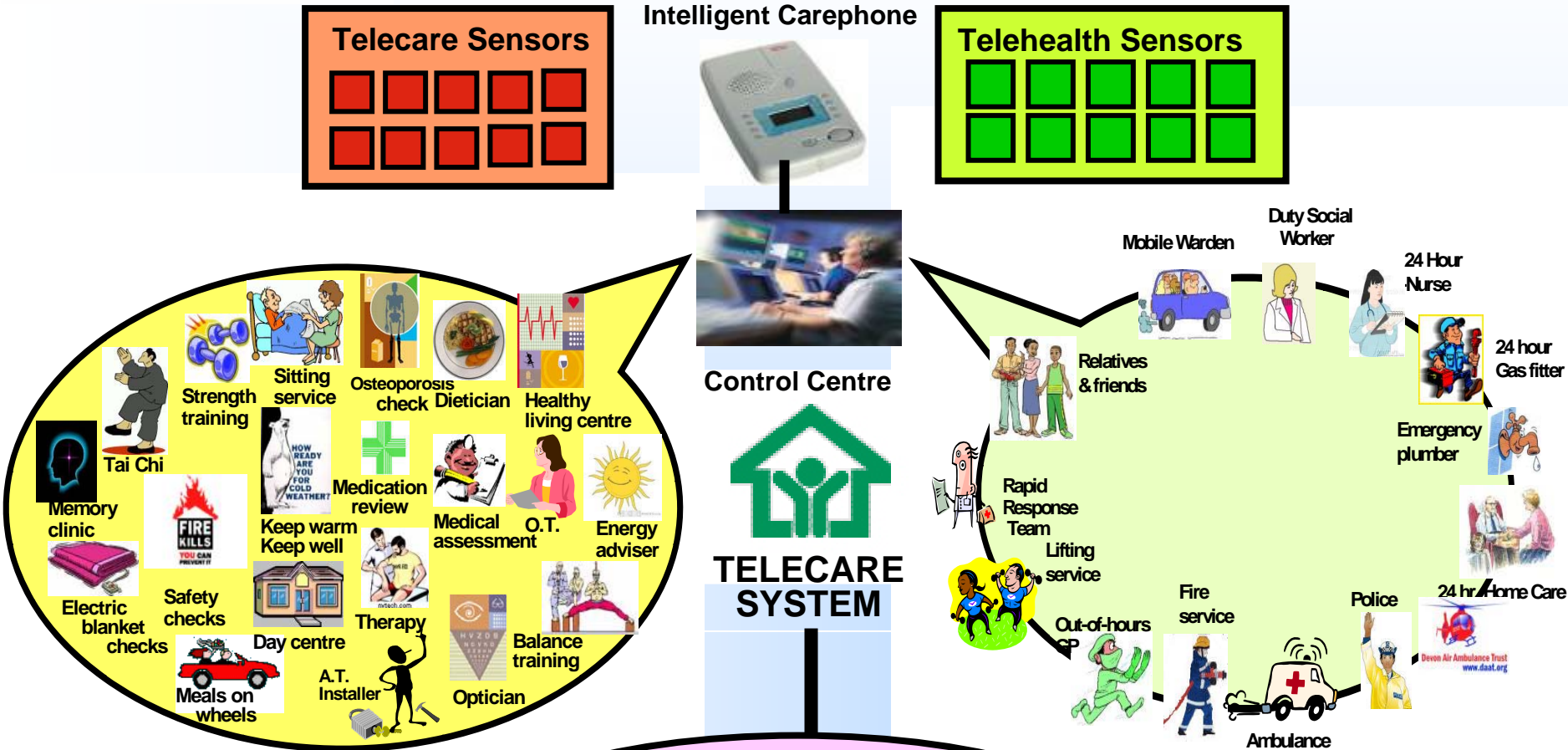


**Control Centre**



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# The Full Telecare Model



Applied to individual assessed need through care package

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Thank you

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