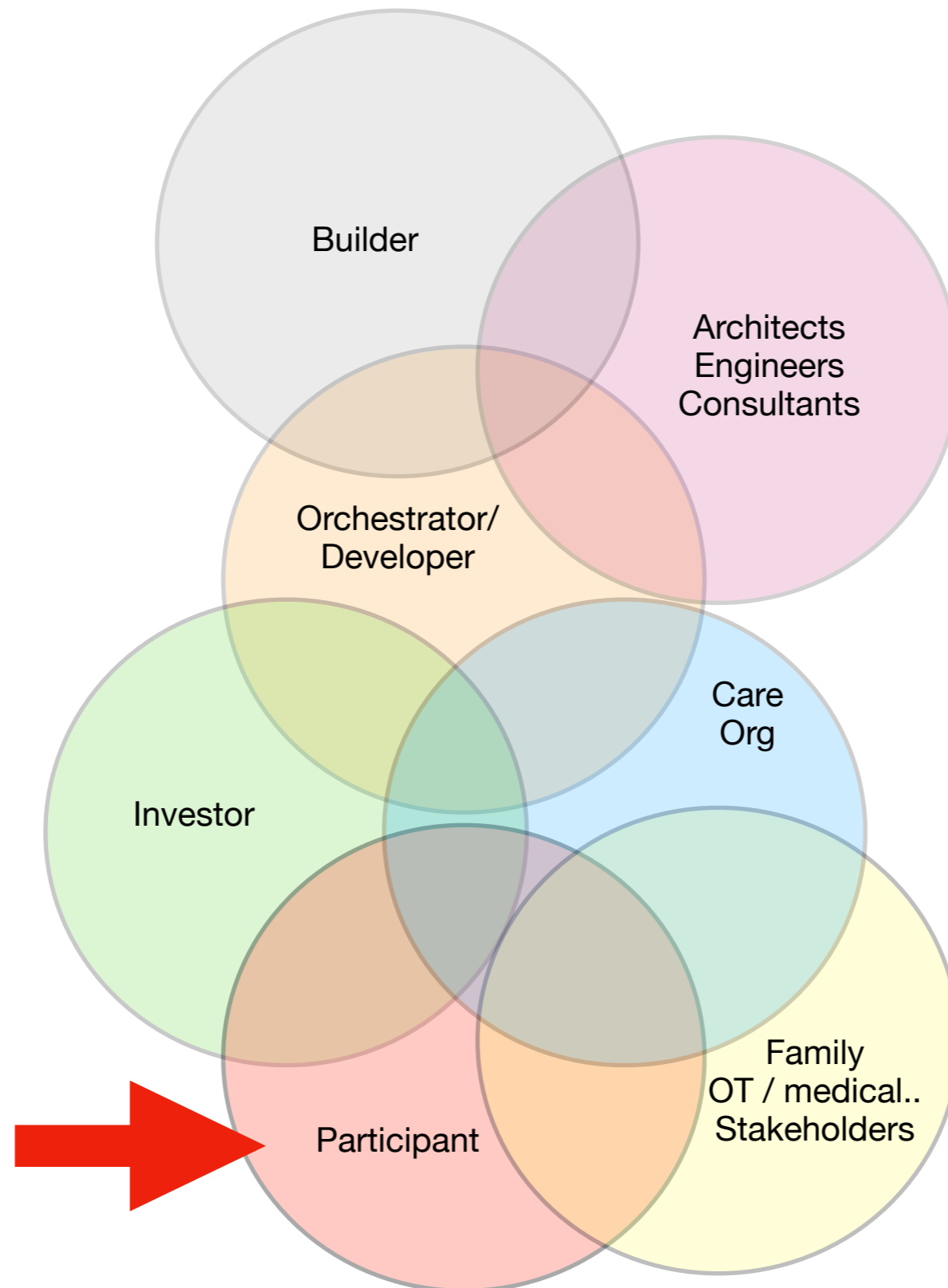


Special Disability Accommodation SDA

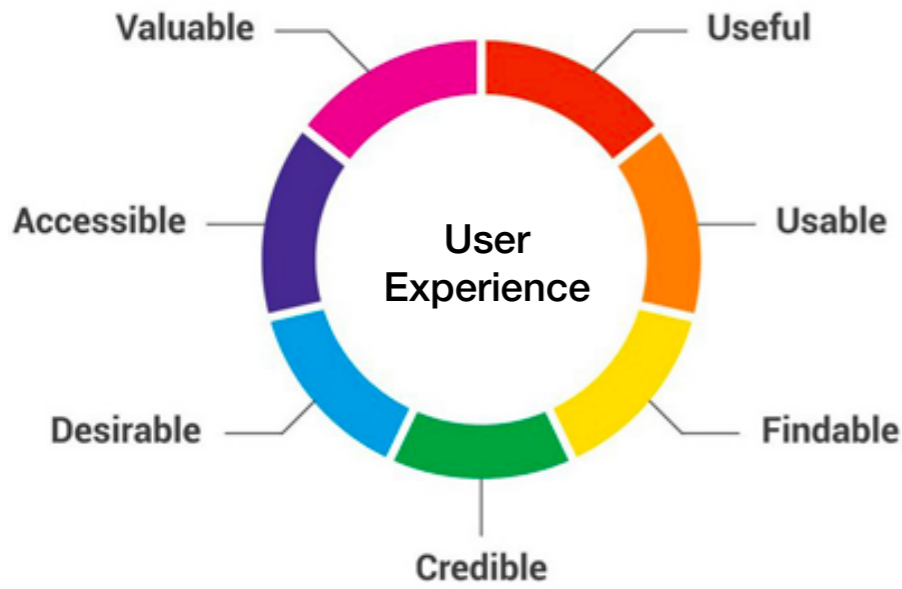


Beyond Automation and User Experience
Improving care and outcomes
with
Assistive Technology for SDA & SIL

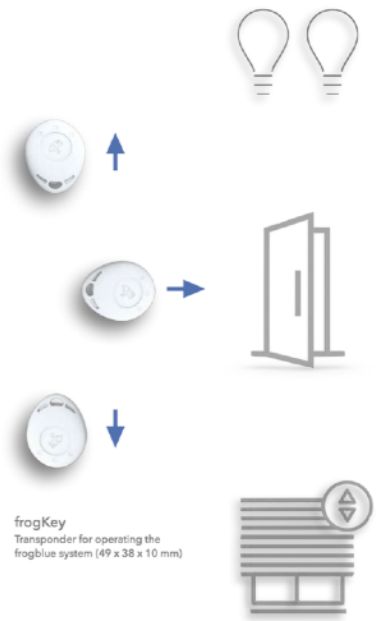
Participant Choice & Control



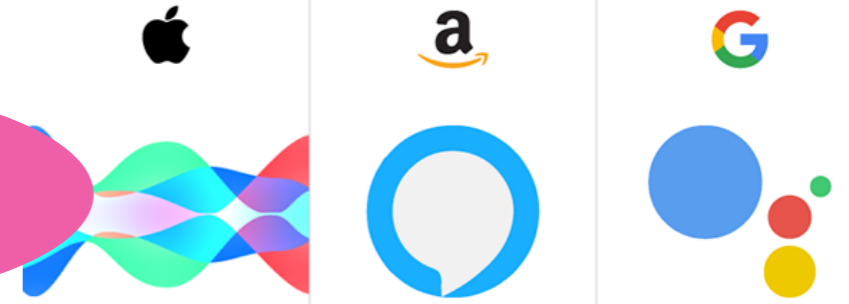
Choice, Control & UX



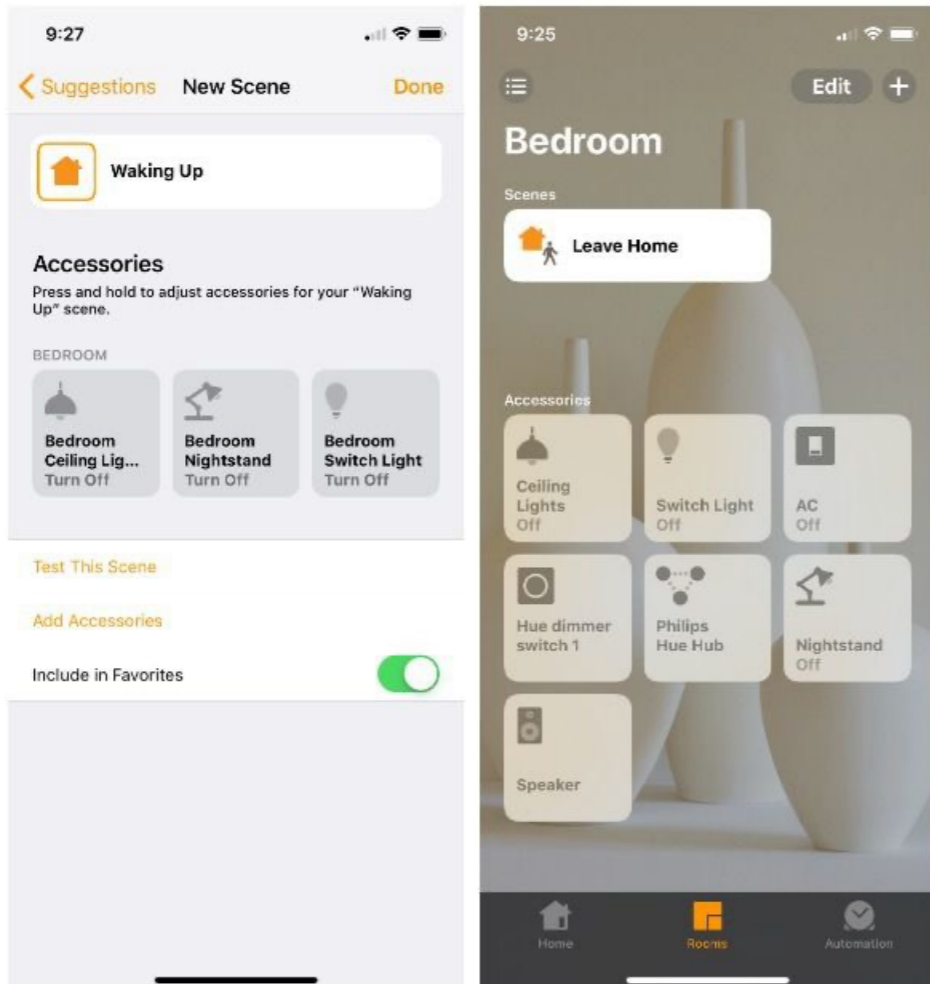
Transponder Control



Voice Control



App Control



Participant control fully customisable

Beyond scheduling and automation....

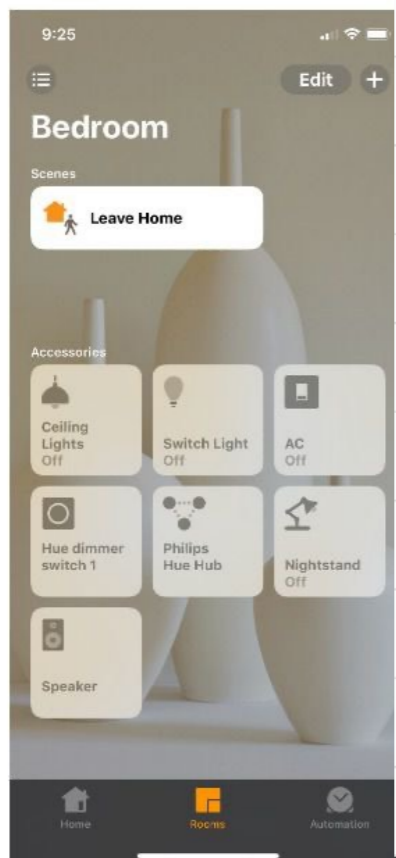
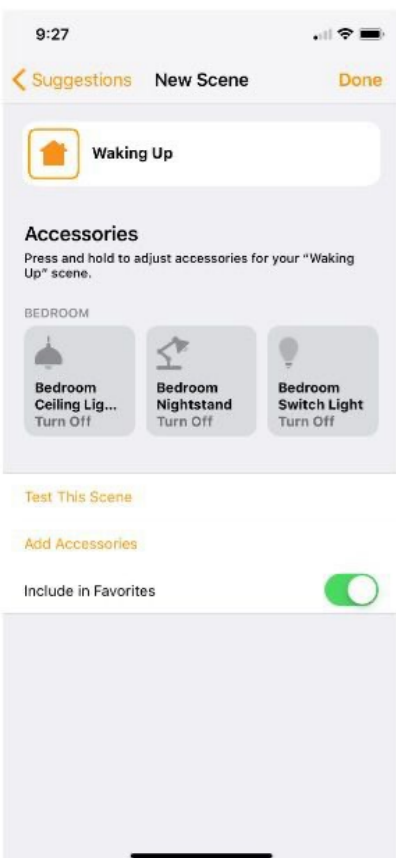
- Control and status for switches, dimmers, shutters and own area (and common area if permitted)
- App available for Apple Watch
- Support for Siri Shortcuts
- Multiple tablets, smart phones and computers
- Free visualisation based on floor plan or photo of the interior
- Display of values like temperature, humidity, etc
- Extensive thermostat control options
- Intercom control (if permitted)
- Audio/video integration; Complete Sonos integration
- RGB and RGBW support (for DMX led or Philips Hue, e.g.)
- Security : Access restriction with PIN code, TouchID or FaceID
- Privacy : Participants can have different internet restrictions.



World's most advanced voice control



	APPLE HOMEKIT	AMAZON ALEXA	GOOGLE HOME
Dimming actuator	✓	✓	✓
Switch / switch actuator	✓	✓	✓
Thermostat	✓	✓	✓
Push button / switch	✓	✓	✓
Scene button	✓	✓	✓
Blinds actuator	✓	✓	✓
Temperature sensor	✓	✓	✓
Fan (beta)	✓	✓	✓
Valve	✓	-	✓
Humidity	✓	-	✓
Contact sensor	✓	-	✓
Smoke sensor	✓	-	✓
Leak sensor	✓	-	✓
CO sensor	✓	-	✓
Light intensity	✓	-	-
Occupancy sensor	✓	-	-
Motion sensor	✓	-	-
CO2 sensor	✓	-	-
Stateless button	✓	-	-



iBeacon location detection: contextual control

Location detection

With the xter iBeacons and NFC tags, it is possible to add location based intelligence to the automated home or building. Because the xter app on your device can detect exactly where you are, it is possible to start an automation depending on your location in the building and always show you the most relevant part of the visualization in the app. It is also possible to gain access to restricted parts of the automation by scanning an NFC-tag from an authorized device.

Start the right scenario when someone enters a room, open the gate when an authorized person arrives or unblock certain controls by reading an NFC tag.

The iBeacons and NFC tags are separately available. Ask your installation professional for the possibilities. For the iBeacons and NFC a separate manual is available.



Circadian Rhythm Lighting

Healthcare

Tuned LEDs 'gives care home residents better sleep'

8 October 2020

f t in



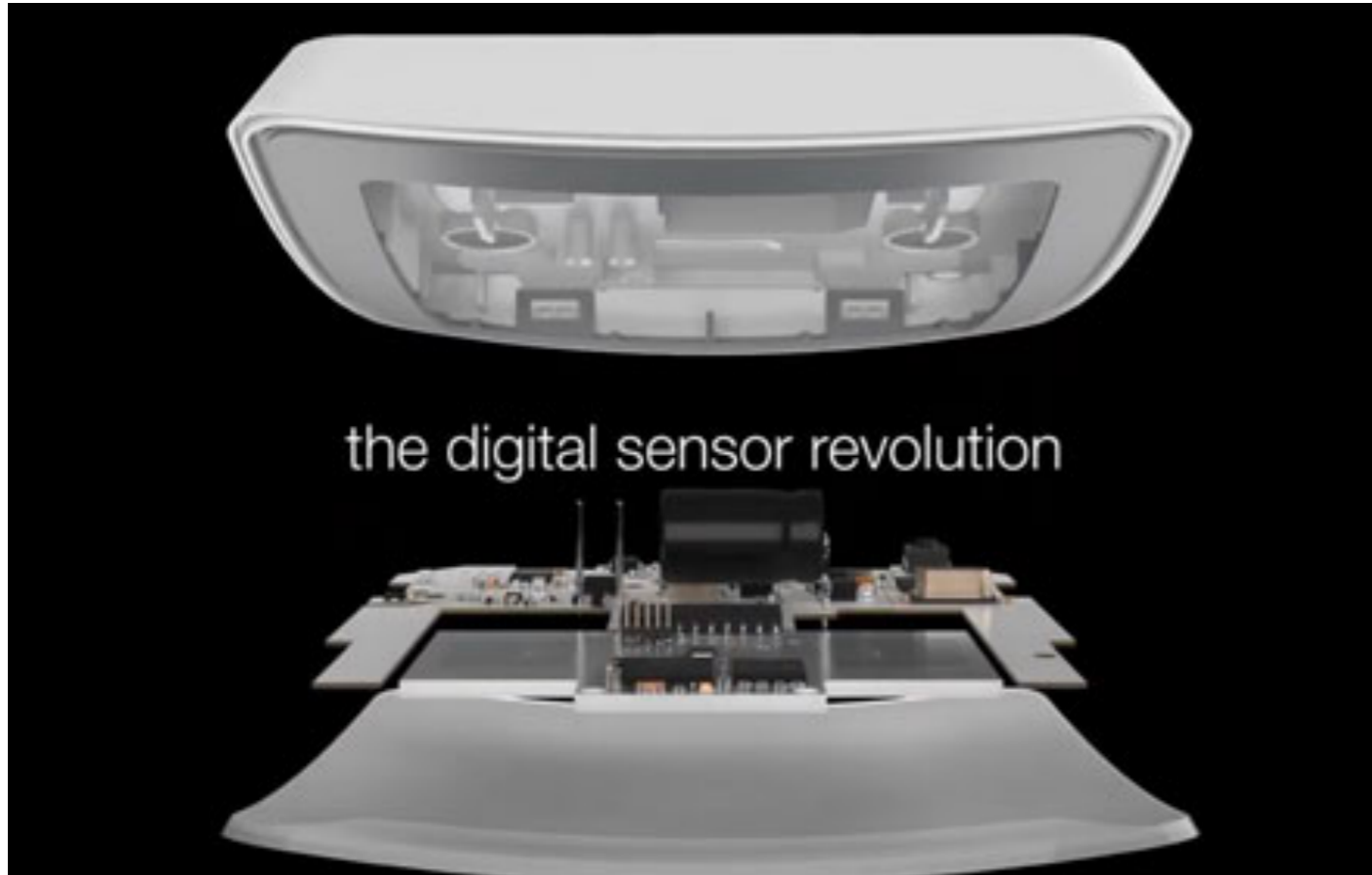
The experiment, at a 99-bed nursing home in Sacramento, California, showed that, on average, residents experienced 3.6 nighttime sleep disturbances with static lighting compared to 1.8 with tuned lighting.

Credit: Shutterstock

It's well known that nursing home residents tend to fall asleep at all hours of the day, and during the night, and that their sleep may be interrupted by periods of wakefulness.

It represents a vicious cycle of fragmented sleep that can place residents at risk for poor health outcomes, including depression and increased frailty, said Rosa Baier, an associate professor at the Brown University.

TruePresence®



True Presence® detects micro movements : breathing while asleep.

Single sensor to integrate air quality, temperature, humidity, electrical, security, emergency response and care provision.

With *certainty* on presence and absence.



The elephant in the energy efficiency room



Sensors only
turning lights off
is so 1990's

1 degree = 6%
HVAC energy savings

Certainty on
presence and absence
enables dynamic
adjustment
optimising efficiency
without compromising
user comfort



Importance of Integrated Control



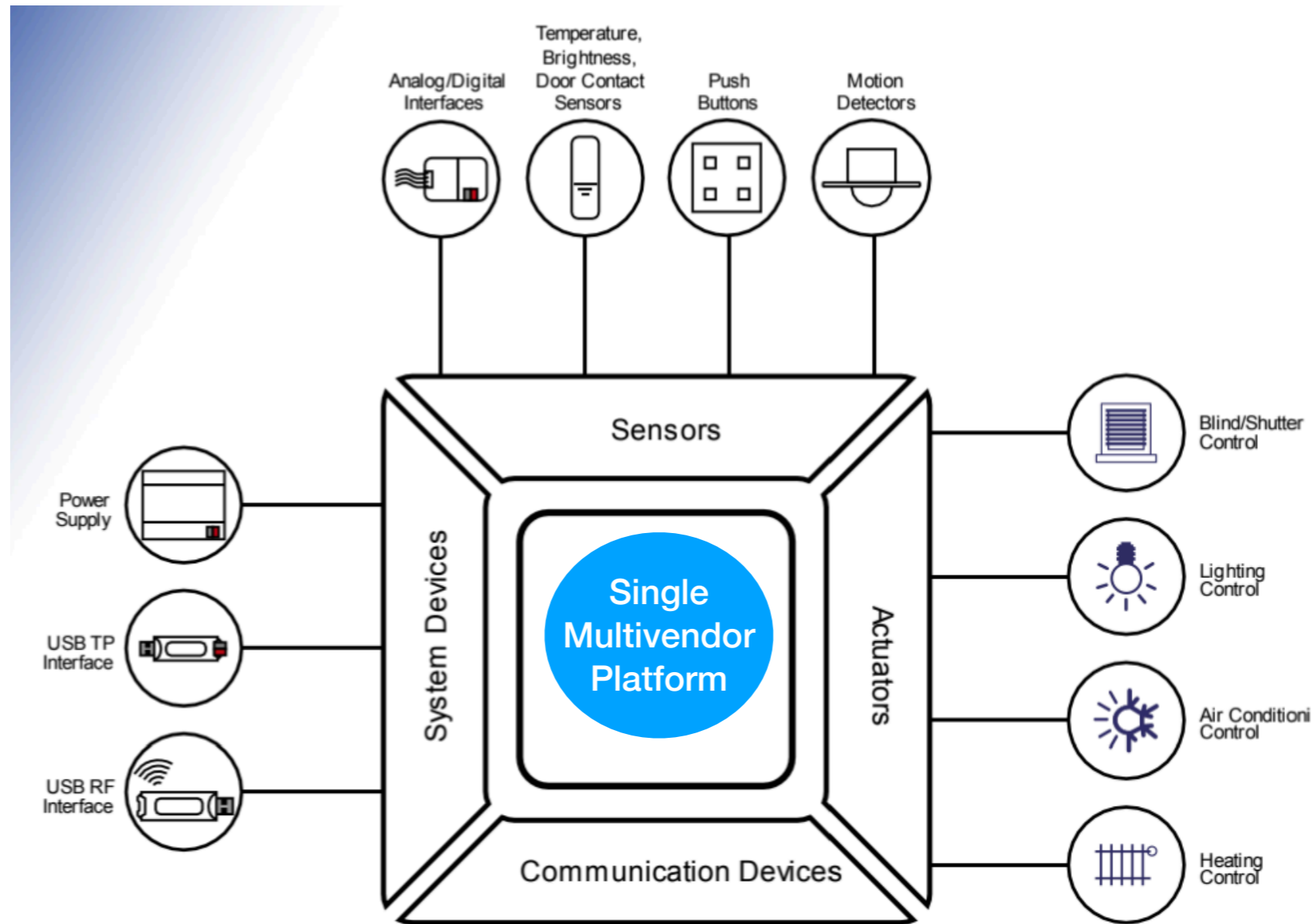
Scene setting is MORE than just changing colour on your Hue lamps !!

“**Set Cooking Scene**” might include:

- Adjust lighting in kitchen
- Play favourite cooking music playlist
- Adjust height of countertops
- Lift/lower/access packed cookware
- Cool temp in kitchen
- Increase ventilation in kitchen
- Open bin cupboard

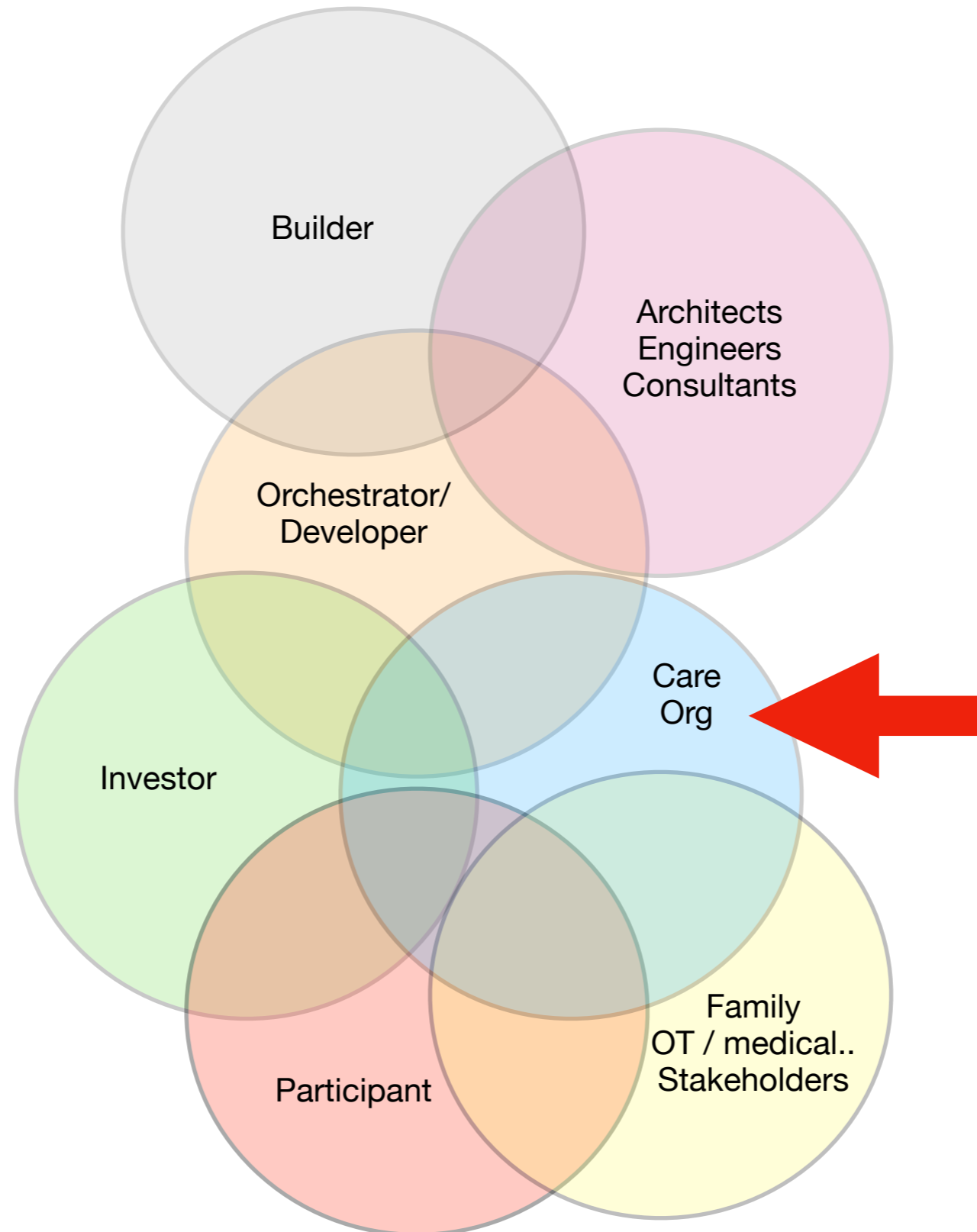


Historic building service silos won't work



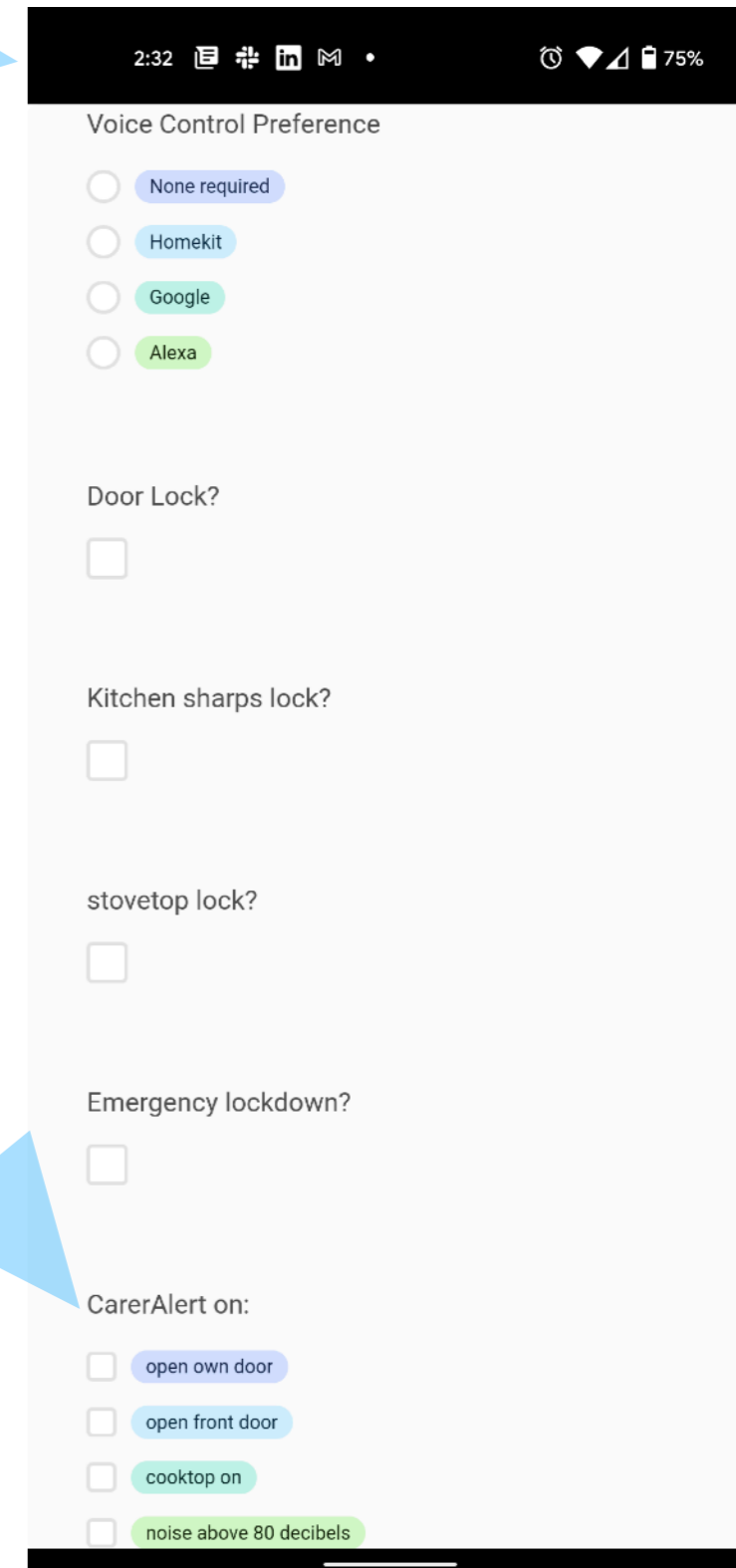
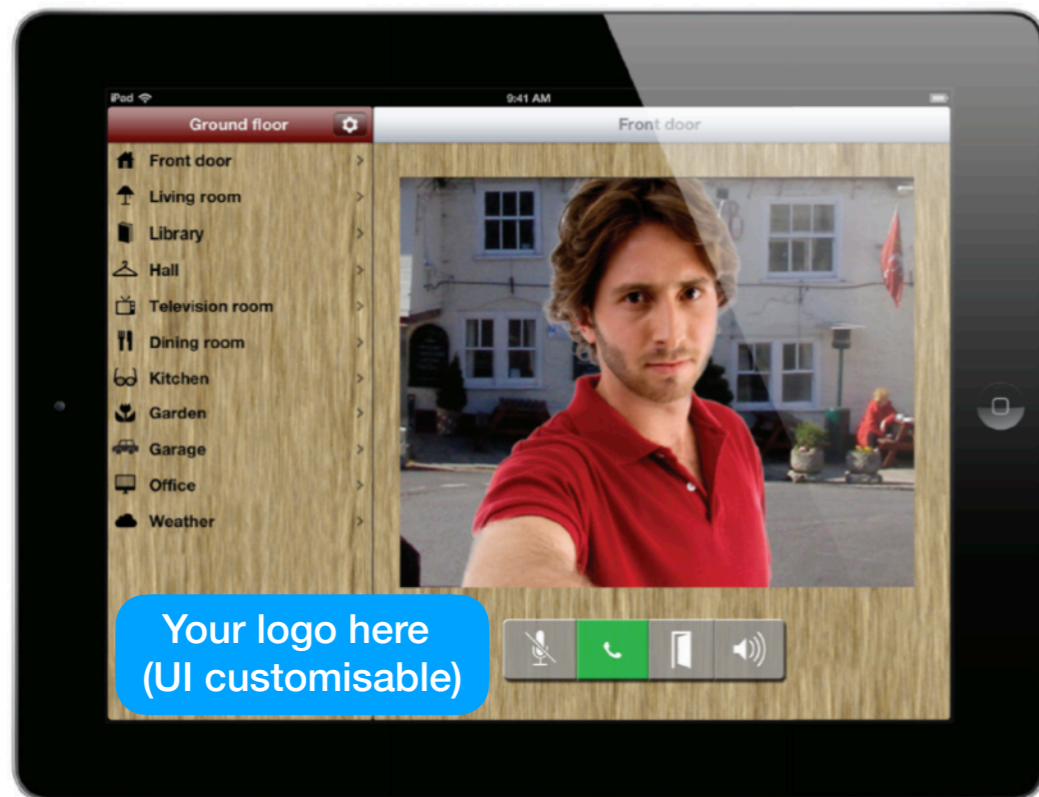
Multivendor = Future-proof

Empowered, Scalable, Distributed Management



Technology assisting carers & their organisations

- Mobile “Onboarding checklist” to customise facility for incoming participant
- Ability to enforce IT policy of carers remotely (walled off from participants)
- Ability to manage digital keys for carers and service providers for access control
- Ability to log and audit arrival & departure of carers and service providers for compliance and billing
- Outsourcing of monitoring and remote testing of emergency lights, lighting, fire alarms, internet connections, and individual control of participant IT policy.
- Flexibility to cater for almost all desired alerts and scenarios regardless of needs of participant
- Branded user interface of carer control



Control & awareness for optimal care



Quick QR code scan set up for new/ substitute carers

- Add snapshot to push message (eg maintenance or emergency shutdown) from the app
- Visualisation and control of the whole building
- Security camera view and control
- (Video) intercom control
- Charts and statistics
- Alert service for receiving messages sms/email
- Access to the alert service log with snapshot viewer
- Ability to change schedules and alert rules
- Presence simulation control



Custom alerts to improve care



If participant is in the bathroom
for longer than 30 minutes,
trigger a carer alert.

If participant is not out of bed by 10am,
trigger a carer alert.

This is deduced by
movement type

If VOC or CO2 levels go above
given threshold,
open/close windows or
increase HVAC ventilation.

Digital Keys and Access Control



Easy digital key distribution
from central hub

Integrates with Intercom
Bank level security

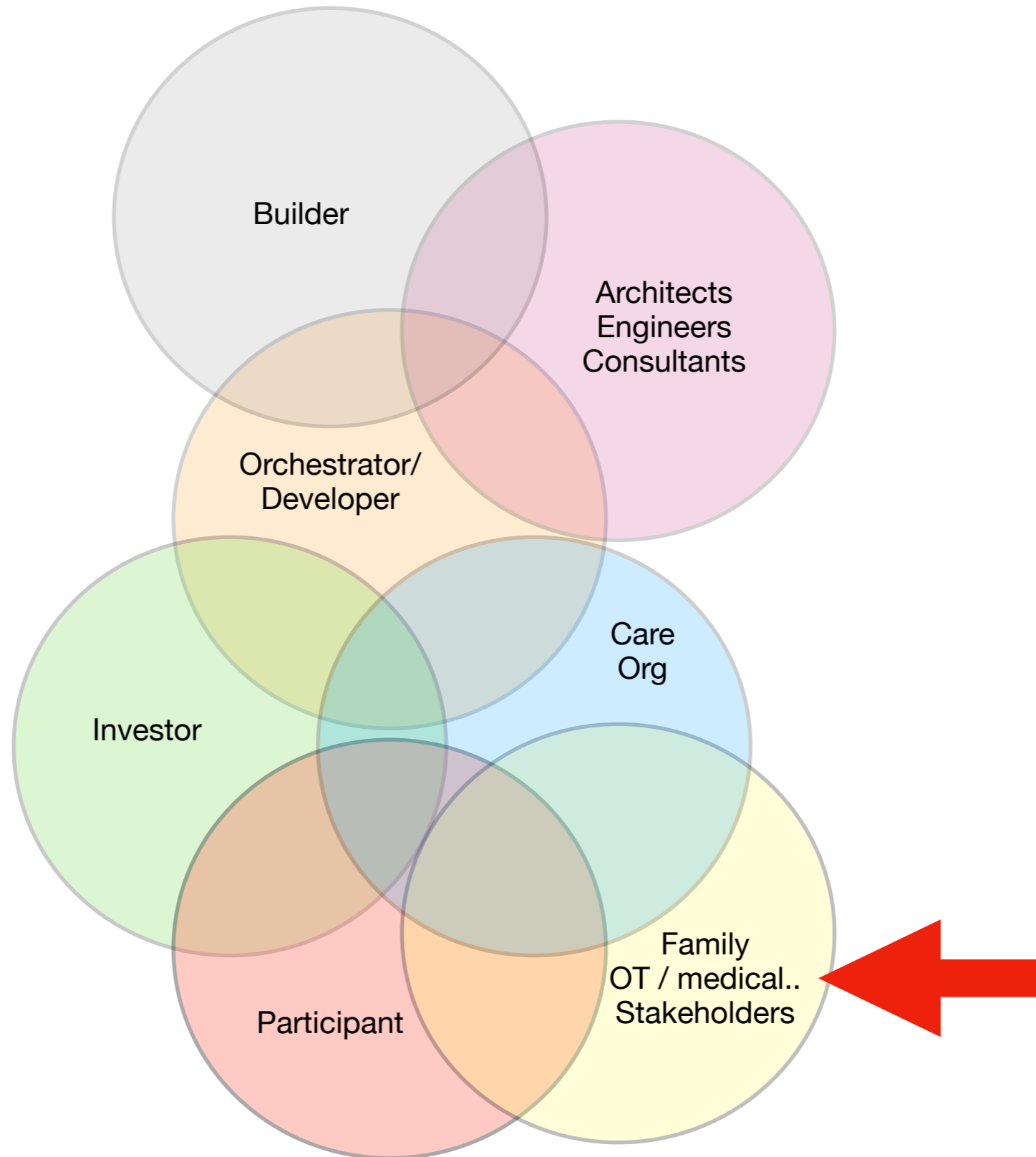
Multiple operating options:

- Press button while phone in pocket
- Tap a button in the app (contactless)
- Move towards door
- Card wave (like store payments)

Free digital keys !



Extended Stakeholders



Innovation & R&D



Share selected variables with family, medical staff and other authorised stakeholders.
Securely.
Non-intrusively.

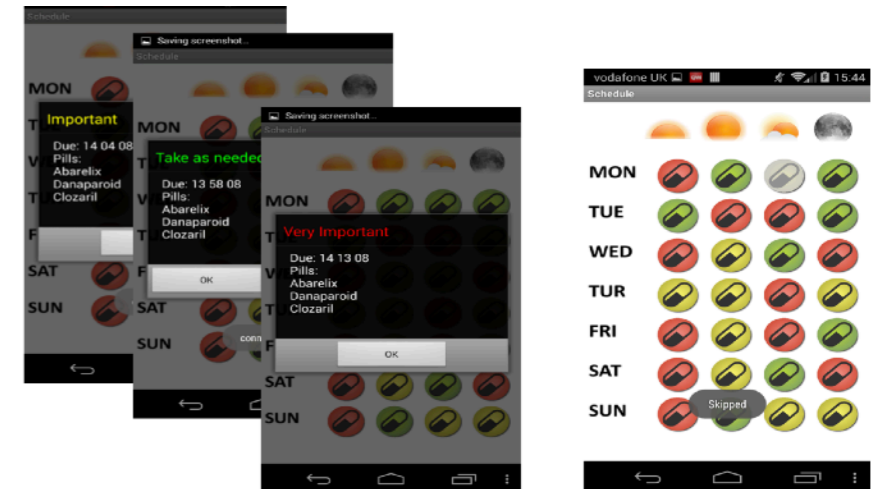
Service providers (digital key logs)

Monthly reports on energy use (meters extra)

Weekly alerts for carer to snapshot
"Fridge contents" message

Pressure sensors measuring sleep times

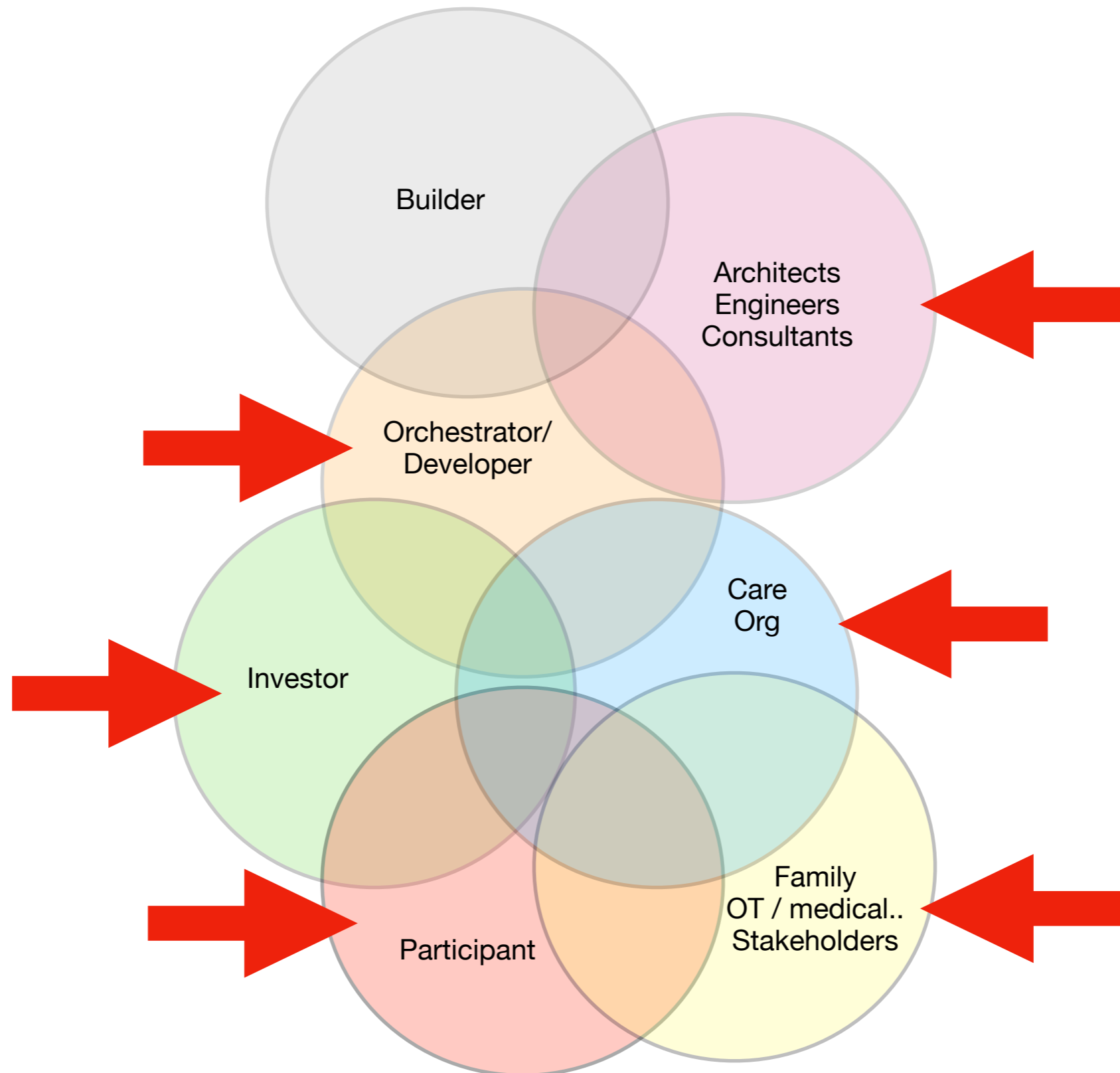
Logging of medication or time critical services



Currently in R&D
medication
compliance



Technology platform can align stakeholders



Tech Platform is a STRATEGIC decision

Elements of ideal technology

Cost Effective Base Build

- Zero additional foundation cost
- Linear costs - pay as you extend
- Options to suit budget constraints
- No vendor lock-in & rent seeking



Cater for ANY participant need

- Flexible - tailor for any requirement
- Menu option - **integration** into platform
- Voice, AV, app/tablet auto-logic
- Analytics & improved care outcomes



Modular & Modifiable

- World's largest range +8000 devices
- Easily & quick tailoring : participant changes
- Modular - Remove & redeploy components
- All components **integrate and interoperate**



Future-Proof

- Global "battle-tested" platform
- Multi-vendor** (no single vendor risk)
- Open** / competitive ecosystem
- Catering for future innovation

