BeSure is a set of services designed to help vulnerable people (frail elderly, people with dementia, people with autism etc) live independently at home for as long as possible, and a Person who Cares be sure that they are ok.

The services are designed around these concepts:

**Providing a warm, dry and safe home**
Monitoring the status of a home and providing end users with data and notifications when any action is required. Extensions can be provided for fire, flood, and unusual activity in non-safe areas around the home and immediate surroundings.

**Living well inside the home**
Caregiver is notified of potential issues and changes in behavioral patterns that concern physical health and well-being (ADL), such as movement, eating regularly, hygiene, sleep and keeping the home temperature in a desirable range.

**Managing outside the home**
Notification to caregivers if there is an unexpected departure from a person’s safe environment, with an option to locate loved ones.

* Each service can be delivered independently or in combination with others.
**BeSure** is a set of services designed to help vulnerable people (frail elderly, people with dementia, people with autism etc) live independently at home for as long as possible, and a Person who Cares **be sure that they are ok**.

The services are designed around these concepts:

- **Providing a warm, dry and safe home**
  Monitoring the status of a home and providing end users with data and notifications when any action is required. Extensions can be provided for fire, flood, and unusual activity in non-safe areas around the home and immediate surroundings.

- **Living well inside the home**
  Caregiver is notified of potential issues and changes in behavioral patterns that concern physical health and well-being (ADL), such as movement, eating regularly, hygiene, sleep and keeping the home temperature in a desirable range.

- **Managing outside the home**
  Notification to caregivers if there is an unexpected departure from a person’s safe environment, with an option to locate loved ones.

*Each service can be delivered independently or in combination with others.*
**Warm, Dry, Safe Homes**

- **Esperanto Road**
  - Last transmission received: 2019-09-28 15:45:00

**Home Health**

<table>
<thead>
<tr>
<th>Zones</th>
<th>Temperature</th>
<th>Humidity</th>
<th>Light</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
</tr>
<tr>
<td>Bedroom</td>
<td>15</td>
<td>18</td>
<td>60</td>
</tr>
<tr>
<td>Bathroom</td>
<td>15</td>
<td>17</td>
<td>62</td>
</tr>
<tr>
<td>Kitchen</td>
<td>15</td>
<td>18</td>
<td>58</td>
</tr>
<tr>
<td>Living</td>
<td>15</td>
<td>18</td>
<td>59</td>
</tr>
</tbody>
</table>
LIVING WELL AT HOME

Esperanto Road
Last transmission received: 2019-09-28 15:45:00

Movement detected

Shower(s) detected at 06:00.

Bedroom
From | To  | Duration
---   | --- | ------
02:00 | 04:00 | 3 hr(s)
20:00 | 23:00 | 4 hr(s)

Zones

Today's Temperature
Maximum: 20.7° 03:45 PM
Minimum: 14.9° 08:15 AM
Average: 17.5°

Week's Activity
4% Movement
**Conceptual Architecture**

**The solution comprises:**

- Room sensors connected via the LoRaWAN network (Numbers of devices vary based on service)
- Software back-end and user interface for data ingestion, processing and access
- Extract/API to allow connection to systems for reporting and analysis
Devices

-> **Includes** - temperature sensor, humidity sensor, light sensor, motion sensor (PIR), CO2 sensor (optional)

-> **Battery powered** - 5-7 year life

-> **Range** - 5km line of sight, approx 2km in cities

-> **Transmit** - every 15 mins (configurable)

-> **LoRaWAN** - Public/ hybrid/ private

-> **Install** - adhesive
Measurements

- **Temperature** - cold, heat loss, within World Health Organisation temperature guidance, fuel poverty
- **Damp** - humidity, dampness index, interventions
- **Movement** - some, none, patterns and abnormalities (e.g. sunsetting)
- **Nourishment** - has a regular mealtime behaviour
- **Sleep** - has a regular nocturnal/sleep pattern
- **Hygiene** - has a regular shower/bathing routine
- **Social** - leaves house, sees people
- **Routine** - variation from own pattern
Benefits

➔ Increase ability to live independently
➔ Reduce caregiver burden and stress
➔ Delay admission to Residential Care
Developed with the market - Our team

- Designed and tested with people being monitored, their families and sector partners
- Leveraging leading edge technology and data research capability
- Strong industry and business experience:
  - Matt.hector-taylor@besuresolutions.com
  - wendy.ralph@besuresolutions.com