



Inverclyde Council Case Study

Inverclyde Council showcases Archangel's ambient assisted living platform



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Background

Inverclyde Council on Scotland's west coast is showcasing a range of IoT and sensor technologies aimed at helping people live safer, happier and ultimately longer lives in their own homes.

Representing a holistic approach to health and social care, the project is being delivered with Archangel's Ambient Assisted Living platform to integrate all of the various technologies delivering predictive and preventative care.

Our solution

The solution incorporates the Ambient Assisted Living platform integrated with an IoT (Internet of Things) multi sensor, SOS button and LoRa Hub, and includes Archangel's Freedom app.

By accessing the platform's rules engine, Inverclyde alerts are configured and then sent to responders or family, either as a broadcast or cascade.

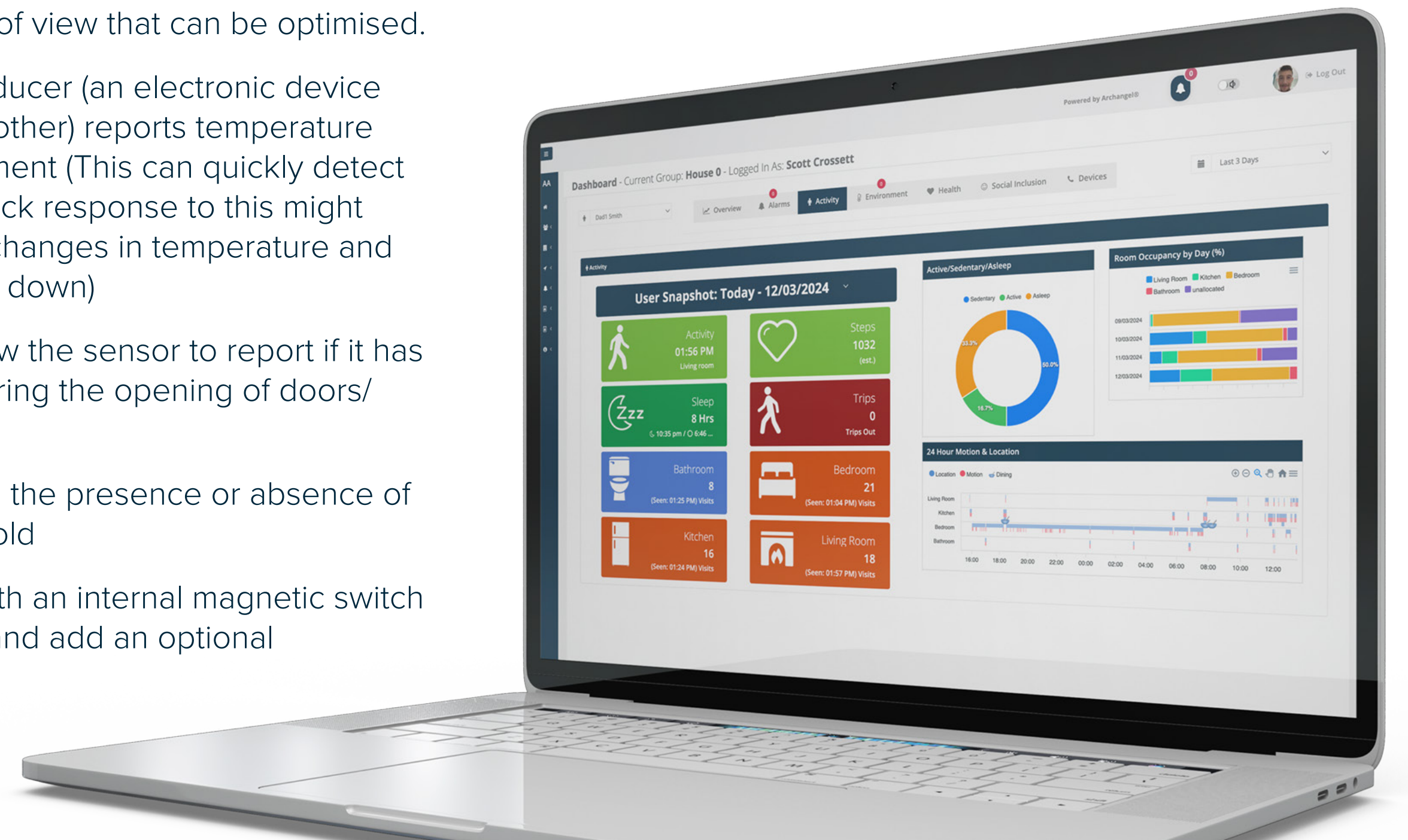
The Freedom app detects movement and fall detection and instantly alerts Archangel if an emergency happens

The platform shows a range of daily living activities including:

- Reports of motion and activity in the field of view that can be optimised.
- Temperature & Relative Humidity: A transducer (an electronic device that converts energy from one form to another) reports temperature and relative humidity of the local environment (This can quickly detect any fuel poverty issues for example. A quick response to this might be the platform advising the end user of changes in temperature and encourage heating to be turned on, up or down)
- Accelerometer: Configurable triggers allow the sensor to report if it has been moved (applications include monitoring the opening of doors/drawers/cabinets.
- Light Detection: A light transducer reports the presence or absence of light using a configurable intensity threshold
- Magnetic Switch: Digital on/off sensing with an internal magnetic switch (the sensor can be fixed to a door frame and add an optional magnet to monitor activity)

Implementation and impact

All IoT sensors were connected to the platform before being shipped out to Inverclyde which means that everything was plug and play out of the box and easily and rapidly incorporated into the interior of the property.



The results

Alerts can be raised from the Archangel platform to report safety aspects eg: the door being opened after 11PM. Alerts to this can be triggered via the Amazon suite that would encourage the individual to close the door and/or be raised to family or responders.

The platform and sensors allow Inverclyde to ambiently monitor health indicators, including:

-  **Sleep pattern**
-  **Step count**
-  **Activity level**
-  **Room temperature**
-  **Bathroom usage**
-  **Humidity**
-  **Room occupancy**

Conclusion

The range and effectiveness of the incorporated technologies, when integrated with the Ambient Assisted Living platform and Freedom app, ensures that Inverclyde is set up to deliver predictive and preventative care so intervention can happen sooner. But if an emergency happens Archangel will instantly alert responders, such as health and care professionals, and family members about any incidents that may arise.

Donna Barr, Integrated Technology Enabled Care Co-Ordinator, Inverclyde HSCP said: *“The care technology enabled home of the future is now! This project shows how elderly and vulnerable individuals can continue living in their own properties safe in the knowledge that their wellbeing is being taken care of remotely and in a wholly non-invasive way.”*

Tom Morton, CEO of Archangel, commented: *“Inverclyde perfectly demonstrates the incredible potential of the very latest technologies to monitor the activities and daily routines of the end user and immediately alert relevant parties whenever there are any issues of concern. Responders and family members can then react in the appropriate manner to address the nature of these concerns.”*

“It’s a perfect example of how Archangel delivers a better way for care in the home in close collaboration with our partners,” added Tom.





If you want to find out more about the case study or how our platform could benefit your organisation then get in touch

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