



**S5GConnect**  
Dumfries

# Innovation Challenge 2

## About

The Scotland 5G Centre has worked with the challenge owners Dumfries and Galloway Health & Social Care Partnership and Scottish Care to prioritise and review current challenges. The challenges presented are formed from the Sustainability and Modernisation (SAM) Programme in Dumfries and Galloway.

SAM is a new, local change programme established to provide a focus on transforming the way in which health and social care is delivered. SAM aims to promote and drive local change to enable care and support to be delivered in a more effective and efficient way that meets people's needs in the **right place, at the right time, every time.**

The collaboration of partners on this innovation challenge are all committed to supporting the winning companies to integrate their solution post the 12-week programme. We aim to work together to tie in the connectivity solution with those who have identified these challenges.

## What is Innovation Challenge 2?

The S5GC has worked with partners to establish the framework of Innovation Challenges which have been presented. Innovation Challenge 2 is as follows:

### Digital at Home to enable Home Monitoring and Self-Management

We are interested in companies that can propose a 5G enabled solution to address issues around:

- Enabling self-management of chronic conditions at home.
- Using digital tools to enable people and partners to deliver care more efficiently.
- Independent living and enhances quality of life.
- Support for informal care givers.
- Enhanced home environmental monitoring.
- The replacement of analogue to digital in connectivity by 2025.
- Digital being a choice.

“At home” care in this context can also refer to those living independently within managed housing environments. There is also an opportunity for companies to address the switch from analogue to digital within this challenge to ensure services are maintained at a minimum of current standards.

### **What might a project in this category look like?**

Here at the S5GC, we have no preconceived ideas of what innovation looks like. We exist to support the successful development & deployment of your products and/or services. However, we have considered the subject matter and are happy to provide some guidance as to what a project *may* look like. The guidance provided is therefore for illustrative purposes only & should be viewed as non-exhaustive.

A 5G product or service might;

- Be a smart or connected device or product which monitors usage / act as reminders.
- Facilitate 24/7 monitoring of people in their own homes or care environment, through sensors and/or wearables.
- Be an applications that interacts with connected devices and enable near real-time monitoring of device status, sensor information and user actions.
- Be a development of standard interfaces to enable efficient integration of multiple systems, including such examples as Alexa, Google Home, etc.
- Help facilitate machine learning, whilst allowing more devices to be connected together; allowing for data analysis and effective interventions.
- Help review of ‘environmental’ conditions or external factors which plays a part in care and well-being.
- Utilise Smart Home Technologies as a communication tool.
- Help applications that enable remote monitoring and management of home care devices including wearables.
- Remind users about their medication intakes and health related activities.
- Provide interactive applications that helps users to follow certain actions without human intervention.
- Be augmented and interactive support delivered remotely to assist patients at home.
- Incorporate smart packaging technology, potentially allowing health and/or social care providers to track patient adherence.
- Provide health care and social care workers with a suite of connected monitoring solutions, replacing analogue, and offers swift interventions.
- Deliver imaging solutions which allow for swift diagnosis.
- Allow for data sharing between multiple clinicians / departments.