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The James Hutton Institute employs over 500 scientists and support staff, making it one of the biggest research centres in the UK and the first of its type in Europe. Its research makes a major contribution to the understanding of key global issues, such as food, energy and environmental security, and the development and promotion of effective technological and management solutions.

Being one of the Scottish Government's main research providers in environmental, crop and food science, the James Hutton Institute plays a major role in the Scottish knowledge economy.



# Climate Innovation Hub

*Building a sustainable and resilient future through innovation and collaboration.*

This project is supported by the Macaulay Development Trust.

## Glensaugh Climate Innovation Hub

The new Climate Innovation Hub at Glensaugh Farm provides a unique collaborative space to develop, test and demonstrate new concepts for land use that seek to address the challenges associated with climate change.

From the novel application of sensors to monitor the environment, to new ways of valorising farm waste, the Climate Innovation Hub provides access to a real-world test site, on-site lab and work space and the opportunity to collaborate with our world-leading scientists across all our campuses to make a positive change to the world.

## What can the Climate Innovation Hub offer?

Working with the Climate Innovation Hub provides access to:

✓ the James Hutton Institute's world-leading expertise and specialist facilities in crops, soils and land use and environmental research

✓ office space and meeting rooms with videoconferencing

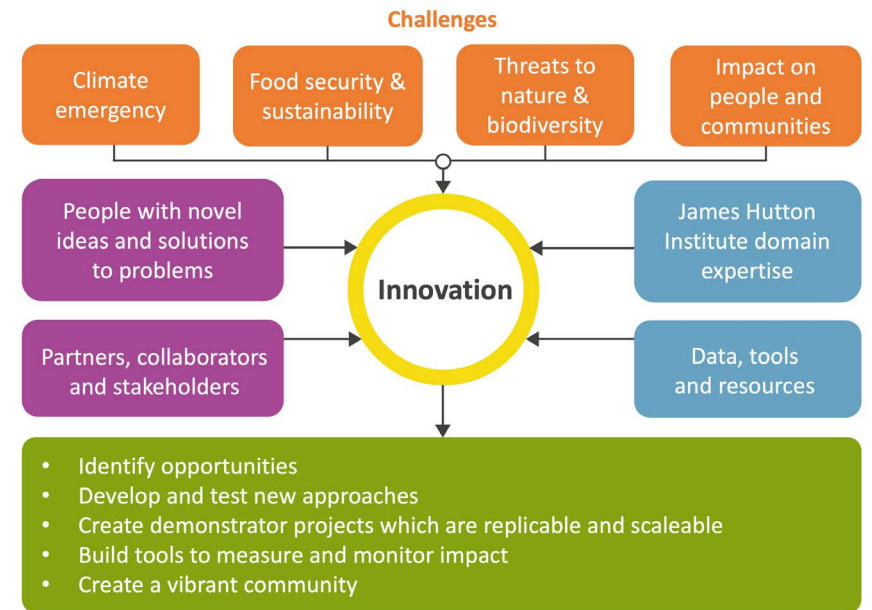
✓ shared lab space, equipped with a range of tools and equipment

✓ a wireless communications infrastructure to support remote sensor deployments

✓ a wide range of specialist analytical services including Environmental Technology Verification (BS EN ISO 14024), soil analysis, chemical analysis and FTIR spectroscopy

✓ Glensaugh's 1000ha upland site with pasture, moorland, peatland and woodland

## Building a hub of climate-positive innovation



## A unique location

The James Hutton Institute's Glensaugh Research Farm is located in north-east Scotland in the Grampian foothills. It has been a centre for wide-ranging research into environmental, economic and social aspects of farming for 80 years. It is managed as an upland livestock farm and features improved and extensive pastures, moorland, peatland and woodland.

Glensaugh has a significant collection of historical baseline data and scientific observation spanning many decades. It is a national monitoring centre for the Environmental Change Network (ECN), Cosmic-ray Soil Moisture Observing System UK (COSMOS-UK), and the Defra Acid deposition (UKEAP) network. It is also an Ecological Continuity Trust LTE/LTM Hub and a BIOSCAN-UK project site.

Glensaugh is home to the Climate-Positive Farming Initiative and the HydroGlen green hydrogen powered farming community demonstration project.

## The Centre for Smart Natural Capital

The Centre for Smart Natural Capital is based within the Climate Innovation Hub. Developed in collaboration with CENSIS, Scotland's Innovation Centre for sensing, imaging and Internet of Things (IoT), the Centre will provide a unique real world platform tailored to the development of smart sensing, monitoring and advanced computing and analytics needed to inform future land management decisions and support the growing field of natural capital.

The Centre will support farm and estate-wide remote sensor deployments and enable trials of the latest in monitoring technologies. Glensaugh provides an operationally challenging location to ensure these new technologies will work effectively in the real world.