

The Glenbarr Model

Future-Proof Heritage

Fortiter: Building Scotland's Digital Estate.

Presented by

Lizzie McAlister

Website

spirit-of-scotland.uk

Web Version: 1.0

Introduction to
The Glenbarr Model

The mission is simple - safeguard Clan MacAlister's heritage and Scotland's story - while creating a sustainable, land-rooted future. We fuse heritage with smart-agri, digital infrastructure, and renewable intelligence that respects the land, not replaces it. Each phase of this model restores value, culture, and confidence - proving that Scotland's spirit can power the future without surrendering the past.

This model ensures that what once defined Scotland's resilience, will now define its regeneration. The past built our foundations - ***the future will honour them.***



Why does it matter so much?

Glenbarr Abbey stands as one of Scotland's last living testiments to Clan history and Scottish heritage. She also stands as a trusted keeper of many of Scottish history's most precious artifacts.

Why Bother?

Why I'll Fight, Even Against - All Odds.

What began almost five years ago, as a long personal fight for health, and for my life back. Became a fight for truth. Personal loss, denial of care, and a system looping in failure. Resulting in ''*avoidable outcomes*'', but at least, with a future. I learned how easily *institutions,* forget the people they exist to help. In the darkest hours, I found strength not in policies or the NHS - but in the legacy of my ancestors. From Border Reivers and my grandad, John "*Gunner*" Thomson, who fought through two world wars. To the military honour, heraldry and defiance of Clan MacAlister - *their courage*, became my compass.

My motivation is simple; silence and acceptance in health, heritage, or humanity - are not virtues, but warnings. Every time we look away, decline advances. Until the forgotten becomes lost, and what we fail to defend - *is no longer there.*

I'd rather take a long shot - than no shot, at all.

I chose not to accept the path that betrayal - and bureaucracy - set for Glenbarr Abbey. Backed by faith, focus, and family - I built my own way forward. This is all I have, for now. I know what Starlink can enable - *and what belief can build*. Glenbarr Abbey stands as Scotland's test site for a new model - one where technology protects culture instead of consuming it. Starlink gives Scotland more than signal - it gives sovereignty over our story, heritage with purpose - a future worth building. This is where heritage meets horizon - *where innovation becomes preservation.*



CLAN BEFORE CROWN

Tech & Tradition United

Main Revenue Streams

The Glenbarr Model fuses Scotland’s heritage with innovation - preserving history while building the future. It’s a revival rooted in land and powered by technology, where restoration creates revenue and legacy fuels innovation.

Through satellite ground stations, smart-agri test beds, and both physical and digital museums, Glenbarr becomes a living ecosystem of heritage and enterprise. This isn’t just preservation - it’s regeneration. A model proving that Scotland’s past and future can thrive together, side by side, under one enduring roof.

Glenbarr Abbey will stand not only as a Clan seat restored, but as a national beacon for how heritage can evolve, inspire, and sustain. Where Scotland’s spirit once defended its land, it now powers its future.



Heritage Powered by Space

30-Acre Core + Hill Access for Phase 1

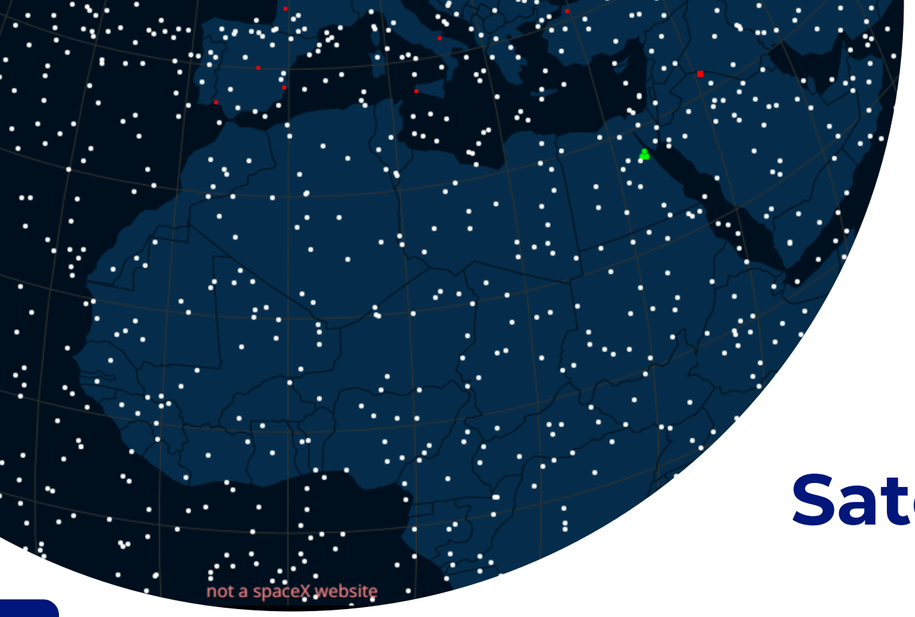
This is where Scotland’s past meets the technology shaping its future. Beneath centuries-old stone, new infrastructure is built - a satellite ground-station network turning heritage land into a launchpad for innovation. Each “bed” connects Glenbarr to the world’s most advanced constellations - Starlink, OneWeb, and future orbital networks - creating a steady, land-based income that funds the Abbey’s restoration. What once guarded clan legacy now safeguards digital communication: signal, data, and heritage, intertwined.

- **High Margins:** After setup, each new station delivers ~70% profit, with shared power and fibre cutting overheads.
- **Scalable Growth:** Expanding 3 → 9 → 20 beds follows proven models like KSAT - each antenna compounds returns.
- **Fast ROI:** Break-even by Year 3, >250% ROI in five years, and ~£1.5M annual yield at full capacity.
- **Prime Location:** Glenbarr’s coastal latitude and isolation make it ideal for a regional ground-station hub.
- **Heritage Funded by Tech:** Profits feed directly into Abbey restoration - innovation over exploitation.



Proving heritage land can serve modern purpose - delivering data, education, and opportunity while preserving Scotland’s history in the process.

Transforming a rural coastline into a connected hub for research, agri-tech innovation and education, for generations to come.



Huge Market Oppertunity

Satellite Ground Stations = Zero In Scotland

01

Zero Starlink Ground Stations in Scotland

Scotland currently has no operational Starlink ground station sites. Satellites do pass over Scotland constantly but there are zero registered Starlink ground stations within Scotland itself.

02

Scotland Signal, Scottish Connectivity

Scotland depends on southern UK or continental relay points for connectivity, which introduces latency and limits redundancy.

03

Localised Data Relay & Sovereign Signal

Data transmission can route directly through Scottish soil - ensuring faster, more secure, and sovereign control of communications infrastructure. ***This reduces dependence on foreign or southern relay points.***

04

Gateway to Northern Europe & the Arctic

Scotland’s latitude makes it a natural bridge between the UK, Nordic nations, and Arctic routes, positioning it as a strategic hub for low-orbit and polar connectivity.

Scotland

Has **ZERO STARLINK** Satellites

Why does it matter so much?

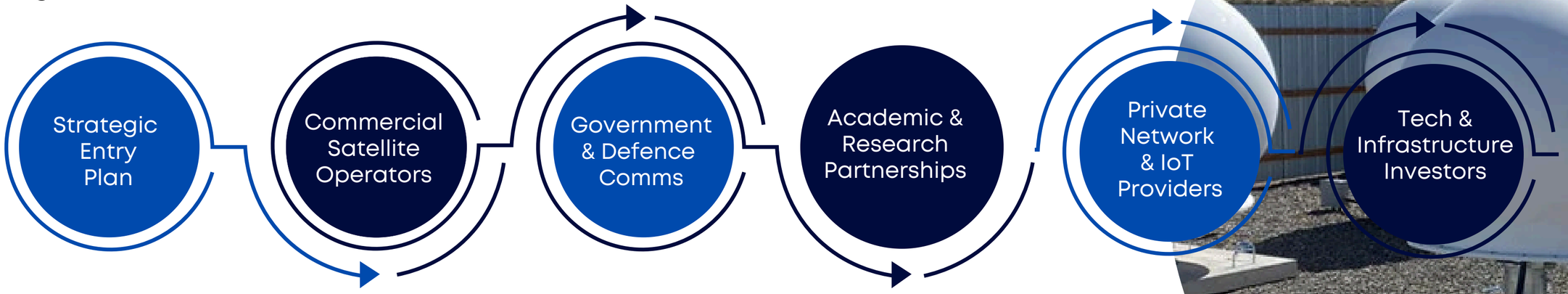
Glenbarr Abbey stands as a beacon in the digital era - where heritage meets orbit. What you see is the dawn of a new age: thousands of active Low Earth Orbit satellites, each a node in a vast global network delivering internet, telemetry, security, climate intelligence, and high-frequency signal capability.

Every signal from orbit strengthens Scotland's link to the world.

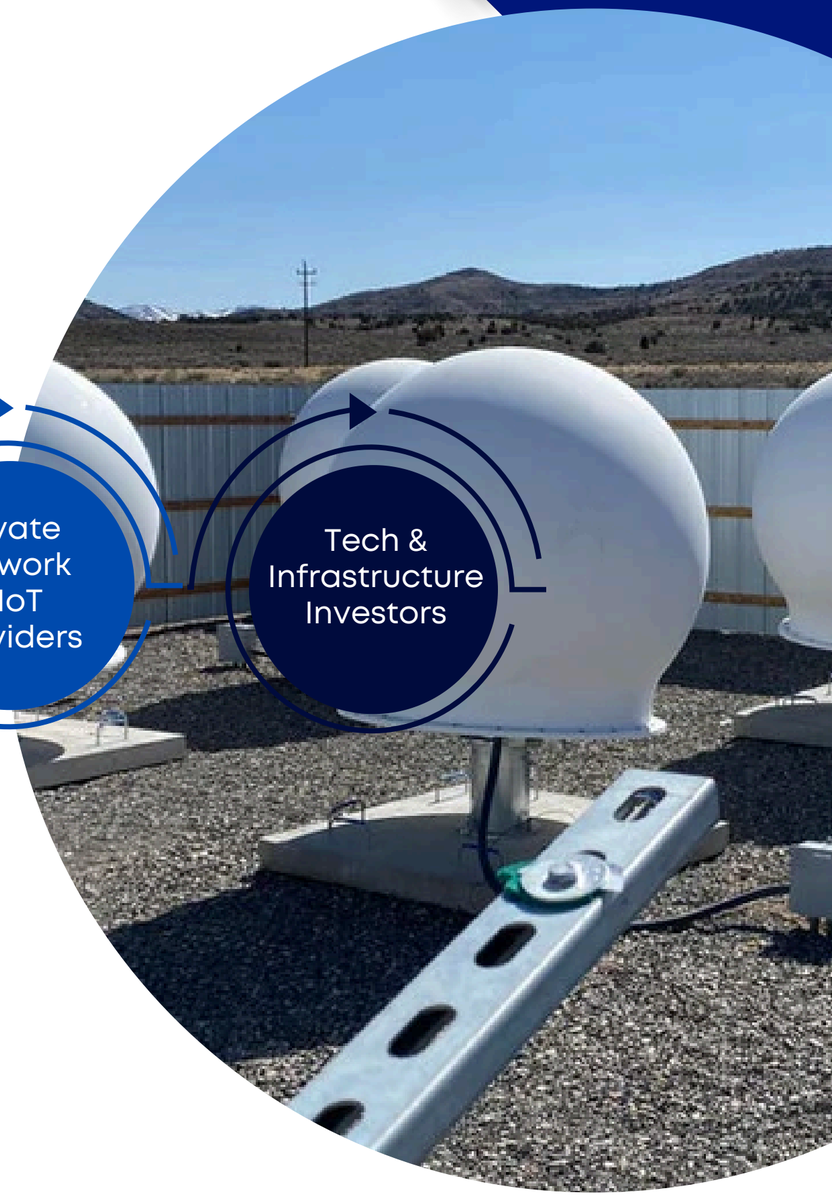

157ms
Prime for Signal
Especially Glenbarr Abbey
447.9km
STARLINK-33904
582.5km
STARLINK-5612
Isle of Man
581.9km
STARLINK-3678
K-32000
545.2km
STARLINK-3756
STARLINK-1337
480.9km
545.1km
STARLINK-4265
452.4km
STARLINK-34311
STARLINK-34328
552.7km
STARLINK-2061
544.9km
STARLINK-4558
552.4km
STARLINK-1551
480.4km
STARLINK-32340
Elfordstown
480.3km
STARLINK-31016
544.6km
STARLINK-4475
480.3km
STARLINK-30716
544.7km
STARLINK-3740
552.1km
365.2km
STARLINK-11233
Chalfont Grove
544.8km
364.4km
STARLINK-11410
480.4km
STARLINK-30437
STARLINK-34082
Gravelines France
Goonhilly Earth Station
551.8km
STARLINK-1543
551.8km
STARLINK-2627
2025-07-15: 9113
6738 1152

Phase 1: Growth
Satellite Ground Stations

Phase 1 transforms Glenbarr Abbey's 30-acre core + hill access into a living bridge between past and future - where signal, science, and Scottish history converge. A revival driven by digital innovation, not dictated by government agendas - or destructive "green" legislation.



Phase 1 lays the commercial and technical foundation for a profitable satellite-station network at Glenbarr Abbey. Through phased leases, research collaborations, and smart infrastructure, the site evolves from heritage landmark to regional node - generating steady returns while preserving Scotland's legacy.





1: Strategic Entry Plan

Phased outreach - Commercial, Academic, Government. Build traction through early NDAs and pilot leases.

2: Commercial Satellite Operators

Starlink, OneWeb, Kuiper, Telesat, Planet Labs. Redundant LEO gateways for data relay.



3: Academic & Research Partnerships

Strathclyde, Glasgow, Heriot-Watt, Edinburgh, UKSA. Live RF satellite feeds, Smart-Agri, & Earth-observation research.



4: Government & Defence Comms

UK Space Command, Dstl, ESA, NATO, US AFRL. Secure, low-EMI rural node under UK jurisdiction.



4: Private Network & IoT Providers

Inmarsat, Iridium, Skylo, Viasat, Marine Telemetry. Maritime corridor coverage across Irish Sea & North Atlantic.



6: Tech & Infra' Investors

Scottish Investment Bank, Seraphim Space VC, UKSA. Heritage + digital infrastructure model with impact.

Starlink doesn’t just connect homes & businesses

- it connects heritage.

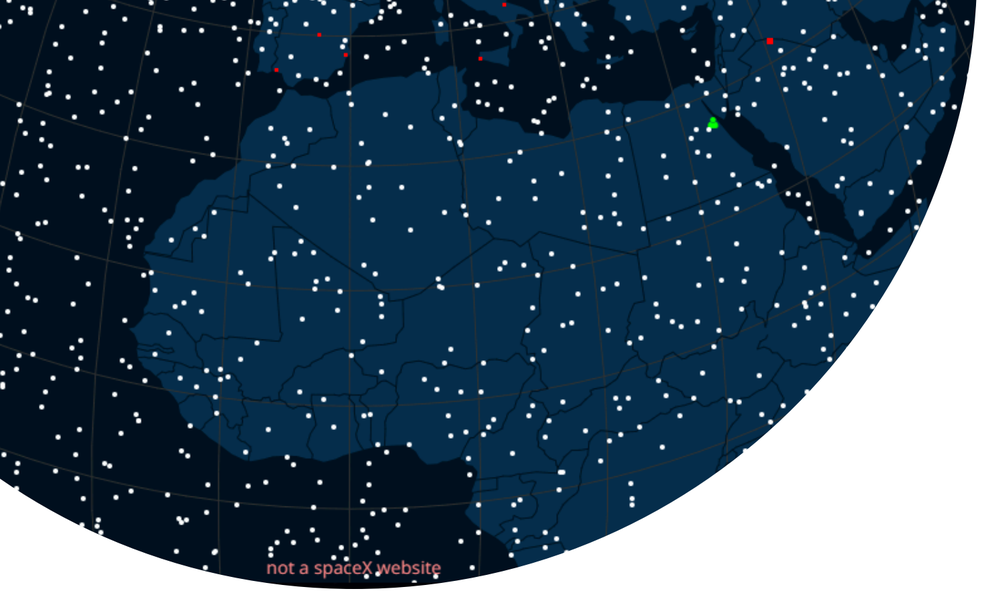


Through signal, Scotland can secure its soul - and its sovereignty.

Depicting major LEO satellite operator - ***not partners or investors***.



Depicting major LEO satellite operators - not partners or investors.



Year 1: Costs

Approx: £90k for Startup

01

Seed & Bridge Capital

Initial angel or family-office funding covers setup of the first satellite bed, site power and control systems. This early proof stage secures momentum and credibility for larger investment rounds.

02

Grants & Public Funds

Targeted heritage and conservation grants offset restoration and compliance costs in Year 1. Blending public funding with private capital reduces risk and demonstrates cultural value.

03

Debt & Social Impact Loans

Low-interest heritage or impact loans bridge timing gaps before revenue stabilises. Structured repayment over 5–10 years supports continuous build without cash-flow strain.

04

Equity & Reinvestment

As leases activate, net returns are reinvested into restoration and expansion. Equity partners gain sustainable yield while strengthening Scotland’s first heritage-tech model.

Phase 2: Agri-Tech

Smart-Agriculture & Robotics Testing

Smart-Agri Integration

Phase 2 establishes Glenbarr Abbey as a live test environment for smart-agriculture and autonomous robotics. Using precision sensors, IoT networks, and satellite connectivity, the estate becomes a working prototype for next-generation rural innovation.

Robotics & Data Systems

The Agri-Tech hub will host prototype trials for automated planting, soil analytics, and AI crop mapping. By pairing robotics with live satellite data, Glenbarr can demonstrate how traditional land becomes a data-driven research asset for the UK's agri-tech sector.



Sustainable Food & Research Growth

Beyond testing, Glenbarr's greenhouses and field labs will support vertical farming, hydroponics, and regenerative cultivation methods. Profits and partnerships from these programs feed back into restoration funding - proving that heritage estates can lead the sustainable-tech economy.



Market Oppertunity

Smart-Agriculture & Robotics Testing

01

Rapidly Growing Agri-Tech Sector

The global smart-agriculture market is projected to exceed £25 billion by 2030, driven by automation and food-security demands. Scotland's rural estates are uniquely positioned to serve as real-world testbeds for this growth.

02

Demand for Robotics Test Environments

Agri-robotics firms need controlled outdoor and greenhouse sites to trial autonomous systems safely. Glenbarr offers secure, low-interference land with integrated connectivity - ideal for prototype development and data validation.

03

Academic & Industry Collaboration Potential

Universities and agri-tech startups increasingly seek live-data partnerships with working farms. A facility like Glenbarr enables joint R&D, linking satellite analytics, crop science, and machine learning on one site.

04

Sustainable Revenue & Regional Impact

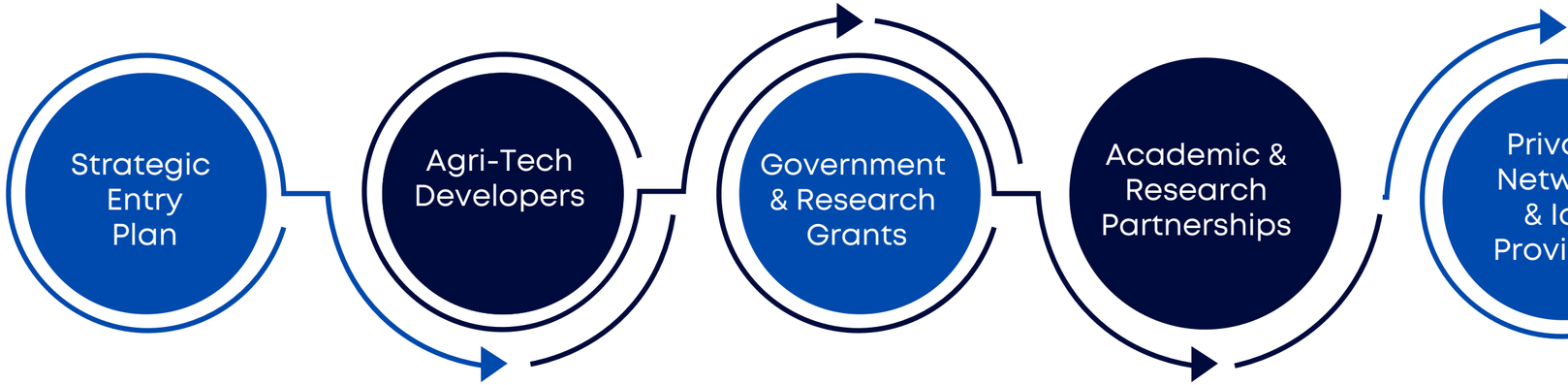
Each partnership or pilot generates dual value — research income and proof of innovation within rural Scotland. This model attracts investors focused on sustainability, automation, and net-zero food production.

Phase 2: Growth (Smart-Agri)

Smart-Agriculture & Robotics Testing Facilites

Phase 2 develops Glenbarr Abbey into Scotland's first rural smart-agri hub - uniting technology, research, and enterprise to drive sustainable food systems and long-term economic growth.

Through research partnerships, automated systems, and precision-farming innovation, the estate evolves into a model of sustainable technology rooted in Scottish land and heritage.





Phase 2 develops Glenbarr Abbey into a commercial testbed for smart-agri and robotics enterprises. With scalable infrastructure, R&D partnerships, and high-value trials, the site generates recurring revenue while advancing the UK's sustainable-farming and automation sectors.

Phase 3: Digital Twin

Online Archive & Location Aware Tour App

Digital Preservation & Access

Phase 3 creates a full digital twin of Glenbarr Abbey - a high-fidelity 3D archive that preserves every artifact, document, and architectural detail. Visitors, scholars, and clan members worldwide will be able to explore the Abbey virtually, safeguarding its history while expanding access beyond its walls.



Location-Aware Tour Experience

A mobile app integrates GPS and AR technology to deliver immersive, location-aware storytelling within the Abbey grounds. Visitors can scan artifacts or rooms to unlock historic audio, clan stories, and digital reconstructions - blending heritage with interactive technology.

Global Heritage Platform

The Digital Twin becomes part of a wider online archive connecting Glenbarr Abbey to Scotland's national heritage network. By combining 3D models, genealogy records, and satellite data, it establishes Glenbarr as a living museum of Scottish identity, accessible anywhere in the world.

Phase 4: Repair & Re-Build

Historic Conservation: Full Restoration

Structural Stabilisation & Roofing Works

Phase 4 begins with essential roofing and structural repairs to secure the Abbey's fabric against further decay. This stage prioritises weatherproofing, masonry consolidation, and preservation of historic materials using traditional techniques.

Interior Restoration & Conservation

Once watertight, restoration focuses on internal spaces, repairing and restoring original (where possible) timber, stone, marble finishes while retaining original craftsmanship. Each room will be restored in sequence, guided by specialist conservation architects and Scottish heritage specialists.

Systems Renewal & Reopening Preparation

Modern infrastructure will be integrated discreetly - including security, electrical, heating, digital and security systems compatible with heritage standards. These upgrades prepare Glenbarr Abbey for safe public access, ensuring it reopens as both a living museum and working estate.



RESTORATION COST: 10M

Phase 5: Re-Open Glenbarr

Pre-Booked Museum Tours & Cultural Exhibitions

Phase 5 marks the return of Glenbarr Abbey as a living heritage site - restored, reimagined, and reopened to the public. With pre-booked tours, digital access, and curated exhibitions, the Abbey will reconnect visitors with centuries of Scottish craftsmanship, culture, and clan history.

This phase balances preservation with experience. The goal is to create a self-sustaining heritage destination where history is shared through guided learning, immersive storytelling, and technology-driven engagement that attracts global visitors year-round.

- Reopening repositions Glenbarr as both a national heritage site and an international cultural destination.
- The Abbey's model proves restoration can be self-funded through experience, education, and technology-driven access.



PRE-BOOKED MUSEUM TOURS

LOCATION BASED APP

HISTORICAL / CULTURAL EVENTS & EXHIBITIONS

MEMBERS WING, ACCOMODATION SUITES & CEREMONIAL HALL



Clan MacAlister

Defenders of the Western Isles

Born of defiance, built on duty, remembered in glory.

01

Clan MacAlister: Defenders of the Isles

From Somerled's defiance to Alasdair Mor's leadership - Clan MacAlister was born in resistance. Forged in the fight for Scotland's freedom, our legacy began not in comfort, but in courage.

02

Clan Motto "Fortiter" - Go Boldly

Our Clan's motto "Fortiter", as defenders of the Western seaboard, from Kintyre to the Isles. Clan heritage is - strength in the sword-arm, loyalty in blood, and boldness in heart.

03

Geographic Reach Across Isles & Mainland

From Kintyre and Tarbert through Glenbarr to Strathaird in Skye and parts of Arran & Bute. MacAlister Clan influence extended across sea and land.

04

Coat of Arms, Family Crest & Honour

The Clan MacAlister Coat of Arms, Crest, and Tartans, declare duty, devotion and defiance - a legacy 800 years strong, forged in courage, honour, and boldness in heart.









Thank You
For Your Attention

Phone
07703 319 059

Email
lizzie@spirit-of-scotland.uk

Website
spirit-of-scotland.uk

Spirit of Scotland









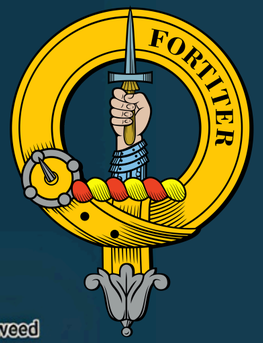




Glenbarr Abbey

Glenbarr, Kintyre

SCOTLAND





Depicting major LEO satellite operators - not partners or investors.