



Concept Brief – Working Title: “Dragon’s Eye | Llygad y Ddraig”

A national digital artwork and environmental observatory from the Welsh School of Ascension Techniques (WSAT) & KJC Industrial

Summary

“Dragon’s Eye” will create a network of solar-powered 4 K camera stations positioned on Wales’s most iconic high points. Each unit will stream real-time imagery of weather, light and landscape through wsat.cymru, transforming the nation’s horizons into a living public artwork. The project merges engineering precision with artistic vision, turning the Welsh sky into a continuously unfolding film of place and time.

Objectives

- Celebrate Welsh landscape, heritage and innovation through digital art.
- Provide open access, educational livestreams for schools and communities.
- Showcase sustainable technology: solar power, secure data links, remote management.
- Strengthen Wales’s international cultural profile through collaboration between art, science and industry.

Pilot & Expansion Plan

Phase	Location	Purpose
Pilot #1	Cefn Bryn / Maen Ceti	Proof-of-concept installation; community launch Spring 2026.
Pilot #2	Kilvey Hill Transmission Tower	Urban test site; integrate broadcast partners (BBC Sounds).
Expansion 2026–27	Rhossili Radar Station • Cernydd Carmel • Preseli • Wenvoe • Carreg Cennin Castle	Full “Dragon’s Eye” constellation across Wales.

Partners & Supporters (proposed)

- Arts Council of Wales – core project funding.
- Sony UK Technology Centre Pencoed – 4 K camera technology partner.
- BBC Sounds / BBC Wales – audio collaboration and outreach.
- CADW / NRW / Gower Society / Swansea Council – site permissions and heritage engagement.
- Starlink / SpaceX – satellite data connectivity.
- WSAT / KJC Industrial – project management, access engineering, installation, and safety (RAMS, IRATA).

Technical Outline

Each installation will include:

- 4 K camera with weather-proof housing and remote orientation.
- Solar + battery power unit.
- Secure data uplink (satellite / 4 G / 5 G / microwave).
- 24 / 7 stream to WSAT portal with optional harmonic soundtrack feed.
- Annual maintenance by KJC Industrial rope-access technicians.

Budget Headings (pilot phase)

Equipment | Installation & Access | Permissions | Web & Data Hosting | Community Outreach | Insurance | Contingency.

(Approx. £25 000–£30 000 pilot value, with in-kind contributions from KJC Industrial & WSAT.)

Why WSAT & KJC

With over a decade of specialist high-access engineering and an embedded understanding of Wales's geography and heritage, KJC Industrial / WSAT are uniquely placed to deliver this project safely and sensitively. The partnership unites technical capability, creative vision, and a deep custodianship of place.

Timeline

Stage	Date
Project development & funding applications	2025 Q1–Q4
Pilot installations (Cefn Bryn / Kilvey Hill)	Spring 2026
Public launch + education programme	Summer 2026
National roll-out (remaining five sites)	Autumn 2026 – Winter 2027

Conclusion & Impact

Wales's natural beauty and heritage are globally recognised, yet much of its daily splendour — its shifting skies, light and weather — remains unseen except by those on the ground. Dragon's Eye | Llygad y Ddraig transforms that invisibility into access.

Problem: Limited public visibility of the living Welsh landscape in real time; few opportunities to merge technology, heritage, and art at a national scale.

Action: Install a network of sustainable, high-altitude 4 K observation points livestreaming to the WSAT portal, uniting engineers, artists, communities and young learners through shared experience.

Impact: A permanent digital artwork connecting Wales's past to its technological future; a tool for education, tourism, and cultural pride; and a model for how creative engineering can serve environmental awareness.

Through this pilot, WSAT and KJC Industrial will demonstrate how technical expertise, cultural stewardship, and creative vision can work together to make the invisible visible — and remind the world that Wales's horizons belong to everyone.

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