

# Welcome to the Plexal Ecosystem

# Plexal

## The innovation and growth company

We enable the ecosystems that deliver the UK’s science and technology agenda - at home and abroad.

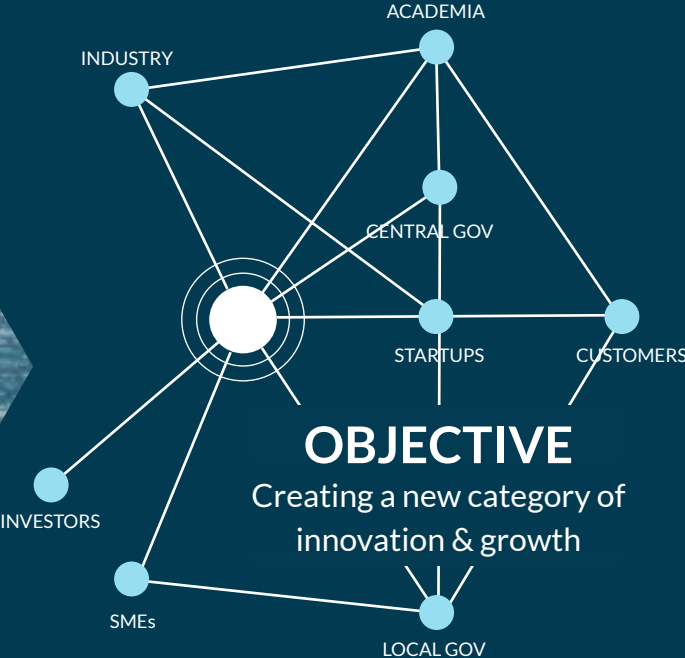
We’re a trusted partner of local, national and international governments and the tech industry.

Our work progresses the UK towards becoming a science and tech superpower and supports economic and social prosperity – locally and globally.



### OUR HERITAGE

2012 Olympic legacy  
Here East



### OBJECTIVE

Creating a new category of  
innovation & growth

### MISSION

Government led



National  
Security &  
Defence



Science &  
technology



Local  
Government  
clusters

### OUTCOMES

Economic growth,  
Technology adoption,  
Social prosperity



## Get to know our ecosystem

This is a snapshot of companies that we have actively scouted through our innovation projects or have been through our acceleration programmes. They are part of our ecosystem across the UK and span AI, quantum and advanced communications technologies.

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[advai.co.uk](https://advai.co.uk) | [contact@advai.co.uk](mailto:contact@advai.co.uk)

Advai accelerate AI adoption with AI assurance – identifying and mitigating points of AI failure. At the frontier of AI, Advai discovers where AI will fail, and why. Advai's mission is to increase the adoption and automation of AI across all domains and businesses, enabling customers to understand the limits and possibilities of their AI.



[aquarktechnologies.com](https://aquarktechnologies.com) | [info@aquarktechnologies.com](mailto:info@aquarktechnologies.com)

Aquark takes quantum technology out of tightly controlled lab conditions and into the real world. Aquark is improving the size, weight, power and cost of quantum devices. Aquark creates portable and robust hardware for quantum sensing, quantum computing and quantum communications, with solutions based on a simplified cooling platform (Supermolasses). In 2024, they announced a €5m funding round and a successful trial of technology at sea with the Royal Navy.



[delta-g.co.uk](https://delta-g.co.uk) | [info@delta-g.co.uk](mailto:info@delta-g.co.uk)

Delta.g is a deep tech company building robust, portable gravity gradient sensors to accurately detect 'buried' features. With a pioneering and powerful quantum technology-based capability, it makes it possible to successfully detect 'buried' features from their gravitation pull alone. After spinning out from the University of Birmingham in 2023, Delta.g is on a mission to make gravity sensing technology as ubiquitous as GPS, radar and telecoms.



[egregious.ai](https://egregious.ai) | [Linkedin](#)

Egregious is an advanced research and intelligence lab established to defend humans from AI. Human-driven AI is fuelling the spread of scams, disinformation and deception online: Egregious develops AI ready social media intelligence tools to detect and counter the misuse of AI against humans. Egregious achieves this through insights and data analysis, cloud-based narrative analysis, data acquisition, integration of information security tools, narrative risk management and advisory services.



[fuzzylabs.ai](https://fuzzylabs.ai) | [talk@fuzzylabs.ai](mailto:talk@fuzzylabs.ai)

Fuzzy Labs are fuelling AI innovation with open source MLOps, to help build and productionise AI models. With a depth of understanding of the best open-source tools available, Fuzzy Labs help businesses adapt and scale – to keep pace with AI's astonishing rate of change. Based in Manchester, Fuzzy Labs is an experienced team of engineers and data science specialists, all passionate about the power of open source MLOps.



[harmonic.security](https://harmonic.security) | [Linkedin](#)

Harmonic provides a smarter alternative to traditional data security methods, which are failing to keep pace with the rapid advancements in GenAI. Harmonic's solutions are designed to give security professionals the tools and visibility they need to safeguard sensitive, unstructured data effectively – without compromising on efficiency.



[honeypotdb.com](https://honeypotdb.com) | [hello@honeypotdb.com](mailto:hello@honeypotdb.com)

HoneypotDB generates clear and actionable threat intelligence based on the real world activity of cyber adversaries. By providing insight into the mechanics behind an attack, it enables a clear understanding of the threat: not just how to detect it. Tried and tested in the wild, all the intelligence is derived from real world attack data, made open and accessible.



[lab-1.com](https://lab-1.com) | [Linkedin](#)

Lab 1 is the leading exposed data intelligence platform. Gen AI agents continually monitor exposed data, providing high fidelity intelligence – allowing users to know both IF and HOW they are at risk, helping to close the loop faster. With 29 billion data entries under management, and 626 entities added every second, it can analyse data 41 times quicker. By monitoring and capturing incident data, Lab 1 has now captured over 30TB of data extracting tens of millions of files from thousands of incidents. A team of world-class data scientists, engineers and entrepreneurs combine to harness a unique skill set and decades of experience in AI, big data engineering and dark web access.





[mindgard.ai](https://mindgard.ai) | [sales@mindgard.ai](mailto:sales@mindgard.ai)

Mindgard secures AI systems from new threats that traditional application security tools cannot address. Mindgard's Offensive Security for AI is an automated red teaming solution that identifies and resolves AI-specific risks that can only be detected during runtime. Mindgard is award winning – including Best AI Solution and Best New Company at the SC Awards Europe 2025, being Infosecurity Europe's 2024 winner for UK's Most Innovative Cyber SME, and one of Sifted's rising stars.



[mode.black](https://mode.black) | [info@mode.black](mailto:info@mode.black)

Mode Black is pushing the limits of free space optical communications. By combining ultra-low size, weight and power with symmetrical bandwidth and a wide field of view, this breakthrough wireless communications technology enables a new era of secure meshed communications. The benefits of laser-based wireless systems can now be realised for a wide range of static and mobile applications. Mode Black's transceivers are flexible and adaptable, having been designed to suit a variety of platforms and uses. Fast and simple deployment is enabled by advanced link acquisition technology combined with standard interfaces.



[m2lasers.com](https://m2lasers.com) | [mail@m2lasers.com](mailto:mail@m2lasers.com)

A photonics and quantum technology company, M SQUARED is on a mission to harness the power of light to change the world. The light-based applications are used in a number of fields, including quantum technology, biophotonics and chemical sensing and are put to use in a wide-range of sectors including advanced manufacturing, oil and gas research, space technology and the medical sector – where cross-sector partnerships have led to breakthroughs in areas as diverse as dementia research, cancer diagnosis and whiskey maturation. It's already established as one of the UK's most innovative, disruptive technology businesses - recognised by the Sunday Times Fast Track 100 and Export Track 100 and awarded the prestigious Queen's Award for Enterprise in Innovation in 2016 and International Trade in 2017.



[originmatters.co](https://originmatters.co) | [Linkedin](#)

Origin Matters guarantee trust and traceability in AI driven decisions by proving decisions are verifiable, compliant and bias mitigated without exposing sensitive data or algorithms. This empowers enterprises to adopt AI with confidence knowing they will be compliant and secure. This is achieved through a cryptographic trust layer for AI that integrates seamlessly with enterprise workflows. Use case examples include AI driven decisions, file sharing, IoT security, file systems, application security and immutable audit.



Quantum Base

[quantumbase.com](https://quantumbase.com) | [info@quantumbase.com](mailto:info@quantumbase.com)

Quantum Base is pioneering a new global standard in preventing counterfeiting and securing physical products through its patented Q-ID® solution. Quantum Base is developing and scaling its Q-ID® solution – a quantum-secure unique fingerprint that cannot be copied, cloned or faked. The Q-ID®'s atomic-level security stops counterfeits and prevents fraud, signalling a major step change in product authentication and brand protection. Using a standard smartphone camera, you can scan the Q-ID® tag, generating an array of product information and allowing for rapid authentication and verification.



[saifautonomy.ai](https://saifautonomy.ai) | [info@SAIFautonomy.ai](mailto:info@SAIFautonomy.ai)

SAIF makes autonomous systems safe by pioneering safeguards for embodied AI. A significant barrier to the widespread adoption of autonomous systems is the complexity and non-determinism of the technology that controls them. SAIF's vision is to be leaders in autonomous systems assurance, pioneering trustworthy autonomy for humanity. Its software enables assured, trustworthy deployment of both traditional deterministic autonomy and AI or novel control methods, in any application, for the first time. It achieves this with no need for data or communications links and is beginning the journey by applying its tech to autonomous systems in the aerospace and land domains. SAIF offers licensing and SaaS development options to OEMs, system integrators, operators, and regulators, ultimately ensuring safety in autonomous systems everywhere.



[stealthium.com](https://stealthium.com) | [info@stealthium.io](mailto:info@stealthium.io)

Stealthium can dissect any software at runtime and spot malicious behaviour. It executes any software in secure instances, get insights into runtime behaviour at highest granularity, and get AI assisted analysis to spot malicious behaviour quickly to correlate known malicious behaviour of current cyber attacks.



[tulpa.ai](https://tulpa.ai) | [Linkedin](#)

Generative AI and reinforcement learning are powerful techniques for creating AI agents, but they can be unreliable or difficult to interpret, posing risks and raising safety concerns. Tulpa's approach to developing and deploying agents is grounded in the need to ensure that a human can interpret and control what those agents do, and to understand why. This high-trust relationship between a human and machine intelligence is what Tulpa calls 'human-machine teaming'.

Combining behavioural science and machine learning, Tulpa rapidly captures and encodes knowledge from experts. Agents are able to fully explain why they took, or are proposing to take, a course of actions, which is a significant boost to assist and inform the work of experts.



[umbrasystems.uk](https://umbrasystems.uk) | [info@umbrasystems.uk](mailto:info@umbrasystems.uk)

Umbra Systems was founded by a team of experienced, dedicated engineers based in Manchester. Having recognised the flaws and impracticalities of cloud storage providers, Umbra set out to revolutionise the sector by offering a clever solution to data vulnerability, uptime and security. Umbra is backed by experienced industry CIOs who see the importance of making a change to the way we store data in the cloud, and its technology is endorsed by a former Royal Navy Cryptographer and Professor of Cyber Security Simon Shepherd.

Umbra's mission is to make secure, reliable storage as simple as possible. Umbra virtual-on-prem appears like local network storage but silently stores data across 7 cloud providers as immutable, undecryptable shadows. This enables immutable, secure, offsite storage without relying on any provider (including Umbra).



[sentinelresilience.com](https://sentinelresilience.com) | [enquiries@sentinelresilience.com](mailto:enquiries@sentinelresilience.com)

YUDU Sentinel is a secure out-of-band communication platform operating independently of an organisation's primary network. This ensures critical communications can continue uninterrupted if a primary network is compromised or unavailable.

Applications include cyber response (keeping teams connected in the event of a cyber or ransomware attack), corporate resilience (enhancing incident response, crisis management and business continuity) and physical security (supporting venues with mass alerting for example).

## Thank you

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For more information on Plexal or any of the companies within our ecosystem please contact [connect@plexal.com](mailto:connect@plexal.com)

[plexal.com](https://plexal.com)





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