



JOINTLY PRESENT

BLUE CATALYST CHALLENGE

Digital Booklet

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Arkadiah Technology



arkadiahrestores.earth

Scaling



Singapore

Technology focus: Digital twin technology; LiDAR mapping; Geospatial mapping; Project development

Description

Arkadiah Technology is an AI-driven nature technology firm bringing natural capital management into the digital age to scale global restoration. By fusing multi-modal data from LiDAR, aerial, and satellite sources, Arkadiah creates high-resolution "digital twins" of diverse ecosystems including tropical forests, peatlands, and mangroves, down to the individual tree level. The company develops carbon projects and provides dMRV services, with a proprietary stack that is 10x faster and unlocks significantly more carbon value through rigorous ground-truthing. Arkadiah delivers the scientific transparency required to transform degraded landscapes into high-quality, investable nature-positive assets.

Traction

Arkadiah has assessed over 5 million hectares across 9 countries spanning tropical forests, peatlands, and mangroves. They have developed tech-driven carbon projects and clients include Shell, Golden Agri-Resources, aDryada and Pollination.

Ask

Seeking landscape partners across Southeast Asia and Latin America (project developers, plantations, government programs) to scale LiDAR-dMRV, and buyers ready to anchor offtake from our Article 6 pipeline.

atdepth



atdepth



atdepth.org

Scaling



United States

Technology focus: Digital twin technology; Carbon flux measurement

Description

atdepth is building the ocean intelligence infrastructure for blue carbon ecosystems through Ocean Digital Twins (ODTs): GPU-accelerated, physics-resolving ocean models with targeted in-situ monitoring and remote sensing that capture carbon dynamics in 3D, in real time, at any scale. Their technology quantifies the lateral carbon export from coastal ecosystems into adjacent ocean waters, a currently unaccounted fraction of total sequestration based on traditional methods and remote sensing or biomass-only approaches. 100x faster than legacy ocean models, atdepth makes MRV processes for ocean-based carbon activities operational, cost-effective, and independent.

Traction

Founded in 2023, atdepth has generated close to \$1M in commercial revenue, and secured ~\$4M in non-dilutive grant funding, including from the US Department of Energy, NASA's Carbon Monitoring System program, and MassCEC.

Ask

What would you learn if you could measure your ocean project with detailed simulations and in-situ ground-truthing? Tell us your challenges - we'd love to explore what's possible together.

Blue Mangrove Solutions



 bluemangrove.com.au

 Australia

Early-stage

Technology focus: End-to-end mangrove restoration

Description

Blue Mangrove Solutions delivers end-to-end mangrove restoration — de-risking, safeguarding and scaling projects from feasibility through to long-term operations. The integrated solution spans project feasibility (hydrology, species-site fit, community readiness), forestry-grade field operations, and a proprietary containerised ebb-and-flow nursery proven across 9+ species and built on exclusive technology partnerships. Delivered within a blended-finance framework, aligned to ESG, blue carbon and biodiversity requirements, with MRV built in from project inception. Where conditions allow, restoration is designed to integrate with complementary livelihood programmes including marine aquaculture.

Traction

Successfully deployed with TotalEnergies in Papua New Guinea under the Zero Net Deforestation program — a containerised nursery operational on-site, producing field-ready seedlings at scale. The company is advancing deployments in Saudi Arabia.

Ask

Not raising capital. We need project flow: introductions to developers, off-takers, DFIs and governments; early-stage project leads; and pilot sites we can deploy within 6 months.

Fairatmos



 fairatmos.com

Scaling

 Indonesia

Technology focus: Geospatial mapping; Improving sapling mortality; Project development; Digital workflow platform

Description

Fairatmos streamlines upstream blue carbon project readiness through its integrated platforms, AtmosCheck and AtmosRestore, building an end-to-end ecosystem that de-risks early-stage project development. AtmosCheck enables rapid, data-driven site eligibility assessments using remote sensing and machine learning. It compresses what traditionally requires ~3 months and ~USD 50,000 of technical assessment into a 3-second, no-cost screening, allowing users to evaluate site eligibility and carbon potential against established standards criteria. AtmosRestore is a tech-enabled smart nursery system designed to improve sapling survival rates through controlled growth environments, remote hydrological management, and IoT-based monitoring.

Traction

A tech-enabled carbon project developer in Southeast Asia with seed funding raised, the company has assessed over 80 million hectares across the region via AtmosCheck and is working across 19 projects, representing an estimated total of 820 million tCO₂e in potential.

Ask

We are seeking asset owners, investors, and offtakers to develop, finance, and scale high-integrity blue carbon and landscape restoration projects across Southeast Asia.

Inverto Earth



 inverto.earth

Early-stage

 Switzerland

Technology focus: Geospatial mapping; Improving sapling mortality;
Digital workflow platform

Description

Inverto Earth has built a geospatial AI and robotics platform, InvertoBlue, for blue carbon projects to reduce uncertainty, minimise costs, and standardise complex MRV workflows. By combining multiple data layers (sat, lidar, ground), it builds hyper-local, high-accuracy models that enable low-cost feasibility screening of project sites before capital is committed. Its patent-pending biodegradable Seed Darts optimise the cost and scale of mangrove establishment during short planting windows in dynamic coastal environments. Their integrated digital MRV solution lets projects plan and monitor their sites with high confidence, minimal effort, and full alignment with carbon methodologies.

Traction

Inverto Earth has raised \$300K in grant funding for technology development and has generated more than \$500k in annual revenue in 2025. They are currently raising an equity round with a lead investor secured.

Ask

We're looking for pilots, projects, and partners for hyperlocal suitability mapping (hydrology), high-yield planting, sapling growth monitoring and carbon dMRV with low uncertainty.

Kanop

 kanop.io

 France

kanop

Scaling

Technology focus: Geospatial mapping; Digital workflow platform

Description

Kanop combines artificial intelligence and satellite imagery to measure environmental impacts of nature-based projects. Kanop aims to automate the entire carbon project lifecycle, from opportunity assessment through design, validation, and monitoring, using proprietary deep learning models and platforms. Delivering accurate measurements of canopy height, aboveground biomass, carbon stocks, land use changes, and biodiversity indicators by fusing multispectral optical, SAR, and LiDAR imagery, their AI agents reduce project development time by 80% and verification costs by 50%.

Traction

Kanop's key clients include Schneider Electric, Mars, ClimatePartners, Shell, Goodcarbon, Ponterra and Wovoka. The company has analyzed 27M+ hectares across 5 continents and delivered 30+ successful projects including 3 blue carbon projects. Revenue grew 55% in 2025 from both recurring SaaS subscriptions and project-based revenue.

Ask

Please connect us with nature-based solutions market participants, particularly corporate and financial investors and project developers.

Kumi Analytics



 kumianalytics.com

Scaling

 Singapore

Technology focus: Geospatial mapping

Description

Kumi Analytics is an environmental intelligence company and a global leader in high-integrity blue carbon remote sensing. Their technology leverages high-resolution satellite imagery and machine learning to quantify, track, and validate carbon stocks, track deforestation, and assess water quality. By fusing multiple satellite data sets, the solution penetrates dense cloud cover and mangrove canopies to accurately estimate "under the brush" biomass. This provides accuracy that optical and LiDAR only methods cannot achieve, enabling reliable, audit-grade results that underpin the valuation of coastal ecosystems.

Traction

With customers worldwide, Kumi supports financial institutions, governments, NGOs, impact funds, and project developers in the NbS space. Kumi co-authored the OxCarbon Mangrove Methodology and in Feb 2026, launched a Blue Carbon Consortium with industry stakeholders across five countries to improve blue carbon methodology and tools development.

Ask

We're seeking strategic partners, customers, and investors to scale high-integrity environmental intelligence that will power carbon offset projects, corporate insetting programs, or nature-based disclosures for organizations worldwide.

Space Intelligence



 space-intelligence.com

Scaling

 United Kingdom

Technology focus: Geospatial mapping

Description

Space Intelligence provides full-lifecycle nature-based project support for developers, managers, and corporate buyers. Their data and platform empower users to effectively screen, assess, and monitor carbon project portfolios. The underlying tech stack is powered by audit-grade proprietary nature data created by combining petabytes of optical, radar, and spaceborne LiDAR imagery, analysed using ML models trained by a team of ecologists and carbon scientists. With over 3 billion hectares mapped across the tropics, this data underpins baseline risk maps for Verra's VM0048 and supports EUDR compliance.

Traction

Customers include Apple, Shell, Equinor, New Forests, Climate Asset Management, Verra, on top of providing screening and advanced due diligence for Symbiosis Coalition. They also partner with Abatable and IntercontinentalExchange to support EUDR compliance and Scope 3 emissions reporting. Raised >\$11M in funding, with 36 experts in Edinburgh and Singapore.

Ask

To meet strategic partners / investors who appreciate our role providing infrastructure for development of environmental markets, and understand the huge opportunity presented by the development of Article 6.

Spygen



 spygen.com

Scaling

 France

Technology focus: Biodiversity monitoring

Description

Founded in 2011, SPYGEN is a pioneering environmental DNA company that monitors biodiversity by detecting DNA traces in water and soil samples. They detect rare, cryptic species and reconstruct multi-taxa community composition with high sensitivity and reproducibility. By generating standardized and comparable datasets using eDNA across time, sites and regions, SPYGEN empowers local stakeholders to move from approximate assessments to evidence-based ecosystem management through robust ecological baselines and practical, scalable, and cost-effective long-term monitoring.

Traction

SPYGEN works with companies, governments, environmental managers, universities and NGOs. It has mapped fish communities along 2000 km of Mediterranean coast and conducted biodiversity surveys in mangroves in Africa and Mauritius, in the Amazon rainforest, Southeast Asia parks and major rivers worldwide, delivering ecosystem health indicators.

Ask

SPYGEN seeks partners to deploy its eDNA methods worldwide, expand its user network, and strengthen biodiversity conservation through large-scale environmental monitoring and impactful collaborative projects.

Straatos



 straatos.io

Early-stage

 Switzerland

Technology focus: Digital workflow & MRV platform

Description

Straatos is a ground-to-ledger MRV platform that collects and processes field, community, satellite and scientific data with offline-capable tools equipped with automated syncing. The data is verified on a distributed blockchain to substantiate every carbon credit claim, and generates a digital PDD or Monitoring Report for direct upload to Verra Project Hub. They integrate complex project development and MRV components across geospatial mapping, biodiversity uncertainty, as well as stakeholder consultations, FPIC records, grievance logs, and co-benefits, to improve auditability and stakeholder trust.

Traction

In 2025, Straatos digitalised the Verra VM0033 methodology and completed the first fully digital submission of a VM0033 Carbon Project to Verra Project Hub with Allcot's ABC Mangrove Senegal. Straatos is currently raising their seed round, and has a pipeline of strategic partnerships with leading carbon market stakeholders, geospatial tool providers, and project developers.

Ask

We believe the future of climate action is collaborative. Straatos is looking for partners to deliver impact at scale through trusted digital infrastructure for blue carbon and nature markets.

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