



Technology with Impact

AXON α

Impact Companies | Axon Partners Group | 2025

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Note to Investors

Dear Investor,

I am pleased to share our approach to identifying and investing in the next generation of transformative technologies. We believe the most compelling opportunities today lie at the intersection of breakthrough innovation and large-scale market disruption.

Our investment thesis is built on a simple conviction: the largest market opportunities emerge when innovative technologies address fundamental problems at scale. We focus on companies that don't just incrementally improve existing solutions - they redefine entire industries through technological breakthroughs.

Each investment targets companies positioned to capture significant market share by delivering:

- **Technological Disruption** that creates new markets or transforms existing ones
- **Scalable Business Models** with clear paths to market leadership
- **Tangible Value Creation** that accelerates adoption and builds enduring competitive advantages

This document presents a selection of portfolio companies that exemplify our approach: breakthrough technologies addressing large market opportunities and generating measurable traction that drives adoption and market penetration.

These examples illustrate how we identify and back companies positioned to become category leaders by solving challenges that traditional solutions cannot address.

Sincerely,

Francisco Velázquez
Chairman and Managing Partner

Overview of Transformation Areas

At Axon, we focus our investments on five key transformation areas where technological innovation is creating significant social and environmental impact alongside financial returns:

1

ENERGY TRANSITION AND RESOURCE EFFICIENCY

Companies developing innovative solutions for energy storage, renewable generation, hydrogen production, and carbon capture, accelerating the transition to a more sustainable energy system.

2

INDUSTRIAL & DIGITAL TRANSFORMATION

Businesses applying digital technologies to transform traditional industries, enhance cybersecurity, and improve manufacturing processes, while increasing efficiency, safety, and sustainability.

3

MATERIALS INNOVATION AND CIRCULAR ECONOMY

Ventures creating breakthrough approaches to material design, resource optimization, and waste valorization, enabling a more efficient use of finite resources.

4

AEROSPACE INNOVATION & CONNECTIVITY

Organizations expanding access to space and developing advanced connectivity solutions, with applications ranging from environmental monitoring to serving remote communities.

5

ADVANCED COMPUTING & EMERGING TECHNOLOGIES

Pioneers in quantum computing, specialized AI hardware, fusion energy, and other frontier technologies that promise to transform fundamental aspects of society.

Disruptive Technology Portfolio Overview

Here is a complete list of our selected portfolio companies and their core disruptive technologies:

ENERGY TRANSITION AND RESOURCE EFFICIENCY

BUILD TO ZERO: ThermalBox thermal energy storage system

PHELAS: Pumped Heat Energy Storage (PHES) system

POWERCELL: S3 Power Stack and PowerCellution platform

PARALLEL CARBON: Dual Electrochemical Conversion (DEC) technology

ERCO: Integrated solar energy infrastructure and storage solutions

JOLT SOLUTIONS: Advanced electrode manufacturing for electrolyzers

MESCAP: Advanced metocean analysis for renewable energy development

INDUSTRIAL & DIGITAL TRANSFORMATION

UPTIME: AI-powered industrial asset monitoring platform

ENERGIOT: Self-powered grid monitoring sensors with energy harvesting

HEPTA: AI-powered grid infrastructure inspection platform

FRANCHETTI: AI-powered structural health monitoring for critical infrastructure

ARTECHE: Advanced instrument transformers & protection systems for smart grids

CY4GATE: Advanced cyber intelligence and electronic warfare platforms

KLIK ENERGY: Energy trading and demand response platform

ERREDUE: On-site industrial gas generation systems

OMER: Advanced railway interior materials and modular systems

Disruptive Technology Portfolio Overview

MATERIALS INNOVATION AND CIRCULAR ECONOMY

NEXTMOL: AI-powered molecular simulation platform

SEAB ENERGY: FLEXIBUSTER containerized anaerobic digestion system

LIBELIUM: Waspote sensor platform and Plug & Sense! IoT Solutions

AEROSPACE INNOVATION AND CONNECTIVITY

PLD SPACE: Miura reusable rocket family with TEPREL engines

EMBENTION: Veronte Autopilot systems and specialized UAV platforms

WSENSE: Underwater wireless communication systems for IoUT

ADVANCED COMPUTING AND EMERGING TECHNOLOGIES

QILIMANJARO: Analog quantum computing platform and Qibo framework

LIGHTON: Optical Processing Units for AI acceleration

NOVATRON: Compact fusion reactor technology

SYSDAT: Comprehensive digital transformation platform

Transformation Areas and Impact

1. ENERGY TRANSITION & RESOURCE EFFICIENCY

THE CONTEXT: the transition towards more efficient and sustainable energy systems represents one of the greatest innovation opportunities of our time, driven by technological advances and changes in consumer and regulatory preferences.

OUR COMPANIES IN THIS AREA:

Build To Zero

SECTOR: ENERGY STORAGE

LOCATION: SPAIN

DISRUPTIVE TECHNOLOGY:
THERMALBOX ENERGY STORAGE
SYSTEM

WEBSITE: www.buildtozero.es

FOUNDER: MIGUEL MÉNDEZ

COMPANY

Leading thermal energy storage company in Southern Europe with proprietary technology operating at industrial-grade temperatures up to 1000°C—significantly higher than competing solutions. Secured partnerships with major cement and steel manufacturers, positioning as go-to provider for high-temperature industrial applications where battery storage is impossible.

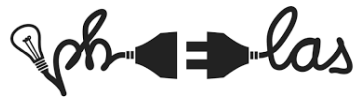
TECHNOLOGY

Their flagship ThermalBox technology is a thermal energy storage system that captures excess heat from industrial processes at high temperatures. The system uses advanced phase-change materials and proprietary heat exchange mechanisms to store thermal energy and release it when needed, functioning as an industrial thermal battery. Achieves breakthrough 85% round-trip efficiency with modular scalability from 1MWh to 100MWh+ and 25+ year operational life.



SOCIAL IMPACT

- Deployed across 12 industrial facilities delivering 15-25% energy cost reduction and 30% decrease in CO2 emissions
- 18-month ROI payback for manufacturers, protecting 2,000+ manufacturing jobs
- Prevents 150,000 tons CO2 emissions annually with potential to scale to millions of tons



Phelas

SECTOR: ENERGY STORAGE

LOCATION; GERMANY

DISRUPTIVE TECHNOLOGY: PUMPED
HEAT ENERGY STORAGE (PHES)
SYSTEM

WEBSITE: www.phelas.es

FOUNDER: JUSTIN SCHOLZ

COMPANY

Pioneered the only commercially viable long-duration energy storage technology storing renewable energy for weeks. Founded by MIT and Technical University of Berlin researchers with pilot projects across major European utilities and 12 patents in thermodynamic energy storage.

SOCIAL IMPACT

- Pilot installations enable 95%+ renewable integration in micro-grids proving viability for 100% renewable power systems
- Each 100MWh installation provides backup power for 50,000 households during emergencies
- Prevents 500,000+ tons CO₂ emissions per deployment while enabling energy independence for remote communities

TECHNOLOGY

Phelas has developed a Pumped Heat Energy Storage system that converts electrical energy to thermal energy through heating and cooling processes, then converts it back to electricity when needed. The system uses abundant, non-toxic materials and operates safely at atmospheric pressure. Achieves 75% round-trip efficiency for 4-168 hour storage with capital costs projected at \$100/kWh and 30+ year operational life.

Powercell Group

SECTOR: FUEL CELL TECHNOLOGY

LOCATION: SWEDEN

DISRUPTIVE TECHNOLOGY: S3 POWER STACK AND POWERCELLUTION PLATFORM

WEBSITE: www.powercellgroup.com

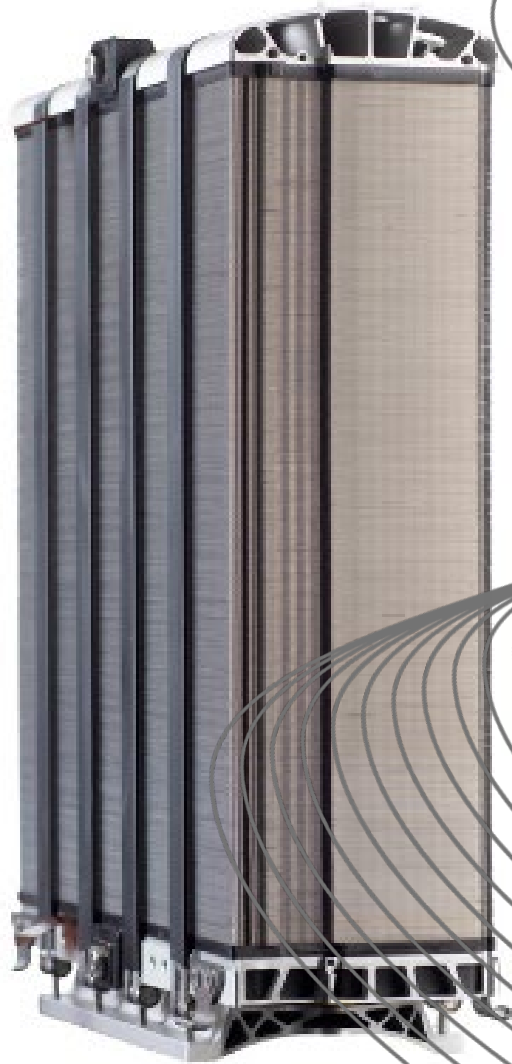
FOUNDER: SPIN-OUT VOLVO GROUP

COMPANY

Europe's leading fuel cell technology provider with highest power density stack in class. Partnerships with Bosch and Volvo Group, 100+ patents, and market leadership in maritime and heavy-duty transport where competitors struggle to achieve commercial viability.

TECHNOLOGY

PowerCell's core technology is the S3 Power Stack, an advanced proton exchange membrane (PEM) fuel cell stack. Their PowerCellution platform integrates these stacks into complete systems with control software optimized for various applications from automotive to marine and stationary power. Delivers industry-leading 4.2 kW/L power density with 60% electrical efficiency, outperforming competitors by 25-30%.



SOCIAL IMPACT

- Marine installations demonstrate 85% NOx reduction and 100% elimination of SOx/particulates in port cities
- Heavy-duty applications show 60% total cost reduction versus diesel, accelerating zero-emission transport adoption
- Technology enables zero-emission shipping corridors potentially eliminating 50+ million tons maritime emissions annually

Parallel Carbon

SECTOR: CARBON

CAPTURE/HYDROGEN

LOCATION: UK /USA

DISRUPTIVE TECHNOLOGY: DUAL
ELECTROCHEMICAL CONVERSION
(DEC) TECHNOLOGY

WEBSITE: www.parallelcarbon.com

FOUNDER: RYAN ANDERSON |
ARANZAZU CARMONA

COMPANY

Developed world's first commercially viable technology simultaneously producing green hydrogen and permanently removing atmospheric CO₂. Founded by MIT and Oxford researchers, holds 8 core patents with \$50M+ in development partnerships with major oil & gas companies.

SOCIAL IMPACT

- Each 10MW installation produces 1,500 tons green hydrogen annually while permanently removing 15,000 tons CO₂
- Makes green hydrogen cost-competitive with gray hydrogen 3-5 years ahead of competing approaches
- Enables steel and cement industries to achieve carbon neutrality protecting 100,000+ industrial jobs

TECHNOLOGY

Their proprietary Dual Electrochemical Conversion technology uses an electrochemical process that splits water to produce hydrogen while simultaneously capturing CO₂ from atmosphere or industrial sources. The technology features novel catalysts and cell designs for high efficiency. Achieves 70% electrical efficiency for hydrogen production while capturing 10kg CO₂ per kg hydrogen with projected costs of \$3/kg hydrogen

ERCO

SECTOR: SOLAR ENERGY

LOCATION: COLOMBIA

DISRUPTIVE TECHNOLOGY:
INTEGRATED SOLAR ENERGY
INFRASTRUCTURE AND STORAGE
SOLUTIONS

WEBSITE: <https://erco.energy/co>

FOUNDER: JUAN CAMILO | JUAN
HINCAPIE

COMPANY

Dominates Colombia's commercial solar market with 34% market share and 2,000+ completed installations. Integrated approach provides competitive advantages with costs 40% below international providers while maintaining European quality standards.

TECHNOLOGY

ERCO provides comprehensive solar energy solutions including advanced photovoltaic systems, energy storage integration, and smart energy management platforms. Their technology includes grid-tie and off-grid solutions optimized for Latin American conditions. SolarCloud monitoring achieves 98% system availability versus 85% industry average.

SOCIAL IMPACT

- Serves 150,000+ people in rural communities, reducing electricity costs by 40-60%
- Prevents 120,000 tons CO2 emissions annually while creating 200+ skilled jobs
- Enables energy independence for 50+ rural health clinics and 200+ schools in underserved communities

Jolt Solutions

SECTOR: HYDROGEN

LOCATION: SPAIN

DISRUPTIVE TECHNOLOGY:

ADVANCED ELECTRODE
MANUFACTURING FOR ELECTROLYZERS

WEBSITE: <https://jolt.tech/>

FOUNDER: LEON RIZZI

COMPANY

Breakthrough technology reducing electrolyzer costs by 40-50%, potentially making green hydrogen competitive years ahead of projections. Founded by CSIC electrochemical experts with strategic partnerships across major electrolyzer manufacturers.

SOCIAL IMPACT

- Technology roadmap projects green hydrogen costs below \$2/kg by 2027 enabling mass adoption
- Creates 500+ specialized jobs, establishing Spain as global hydrogen component manufacturing hub
- Accelerates 10GW+ hydrogen production deployment 3-5 years earlier than current projections

TECHNOLOGY

Jolt's breakthrough electrode manufacturing process creates high-performance electrodes for alkaline and AEM electrolysis at significantly lower costs than conventional methods. Their technology improves electrolyzer efficiency while reducing capital costs. Creates electrodes with 300% higher active surface area while reducing manufacturing costs by 60% with production costs below \$50/m².



ESCAP

SECTOR: RENEWABLE ENERGY ANALYTICS

LOCATION: ITALY

DISRUPTIVE TECHNOLOGY: ADVANCED METEOCEAN ANALYSIS FOR RENEWABLE ENERGY DEVELOPMENT

WEBSITE: <https://mespac.space/>

FOUNDER: ANDREA GULISANO | GIUSEPPE GIORGI

COMPANY

Europe's leading metocean analysis provider for offshore renewables with proprietary algorithms improving project success rates by 30%. Serves Equinor, Ørsted, and EDP Renewables with unmatched accuracy in environmental risk assessment.

TECHNOLOGY

MESCAP's platform combines satellite data, oceanographic models, and AI to analyze metocean conditions. Their algorithms generate high-resolution predictions of environmental conditions and quantify weather-related risks for renewable installations. Processes 20+ years of data through ML models with 95% accuracy and 10x better precision than existing methods.

SOCIAL IMPACT

- Enabled 5GW+ offshore renewable projects powering equivalent of 4 million homes
- 30% success rate improvement protects €2B+ in renewable capital, accelerating deployment by 18-24 months per project
- Enhanced grid stability through better forecasting improves energy security for 20M+ Europeans

Transformation Areas and Impact

2. INDUSTRIAL & DIGITAL TRANSFORMATION

THE CONTEXT: digital technologies are transforming traditional industries and critical infrastructure, improving efficiency, security, and sustainability while preserving economic competitiveness and protecting essential systems.

OUR COMPANIES IN THIS AREA:

Uptime Analytics

SECTOR: ENERGY EFFICIENCY

LOCATION: COLOMBIA

DISRUPTIVE TECHNOLOGY: AI-POWERED INDUSTRIAL ASSET MONITORING PLATFORM

WEBSITE: <https://uptimeanalytics.com/>

FOUNDER: OSCAR HOYOS

COMPANY

Latin America's leading industrial IoT company with proprietary non-invasive monitoring delivering 15-25% energy savings without production disruption. Serves 200+ industrial clients with proven 12-18 month ROI.

TECHNOLOGY

Uptime's platform includes non-invasive sensors that monitor industrial machinery energy consumption and AI-powered analytics that identify inefficiencies, predict maintenance needs, and recommend optimizations without requiring production downtime. Processes 1M+ daily data points predicting equipment failures with 85% accuracy 2-4 weeks in advance.

SOCIAL IMPACT

- 200+ facilities deliver energy reduction equivalent to removing 50,000 cars annually
- Technology preserved 5,000+ manufacturing jobs during energy cost increases
- Enables smaller manufacturers to access sophisticated energy management supporting 1,000+ SMEs

Energiot

SECTOR: SMART ELECTRICAL GRIDS

LOCATION: SPAIN

DISRUPTIVE TECHNOLOGY: SELF-POWERED GRID MONITORING SENSORS WITH ENERGY HARVESTING

WEBSITE: <https://energiot.com/>

FOUNDER: GONZALO MURILLO | JAUME ESTEVE | PABLO RIBEIRO

COMPANY

Developed world's first self-powered grid monitoring system harvesting energy from electromagnetic fields. Deployments across Spain, Portugal, and Latin America serve 50+ utilities with 70% cost reduction while improving reliability.

SOCIAL IMPACT

- Deployments reduce power outages by 60%, ensuring electricity for 2M+ people in traditionally unreliable grids
- Technology enables comprehensive monitoring for 5M+ people in underserved areas
- Prevents cascading failures protecting vulnerable populations from life-threatening blackouts

TECHNOLOGY

Energiot's platform features ultra-low-power wireless sensors that harvest energy from electromagnetic fields in electrical infrastructure, feeding data to analytics software that detects anomalies and predicts failures. Harvests 1-5W enabling continuous operation without batteries with 99.7% accuracy.

The title 'Hepta Airbones' in a large, bold, dark blue sans-serif font, underlined with a thin orange line. In the background, there are abstract white concentric circles on a light blue background.

SECTOR: SMART ELECTRICAL GRIDS

LOCATION: ESTONIA

DISRUPTIVE TECHNOLOGY: AI-POWERED
GRID INFRASTRUCTURE INSPECTION
PLATFORM

WEBSITE: <https://heptainsights.com/>

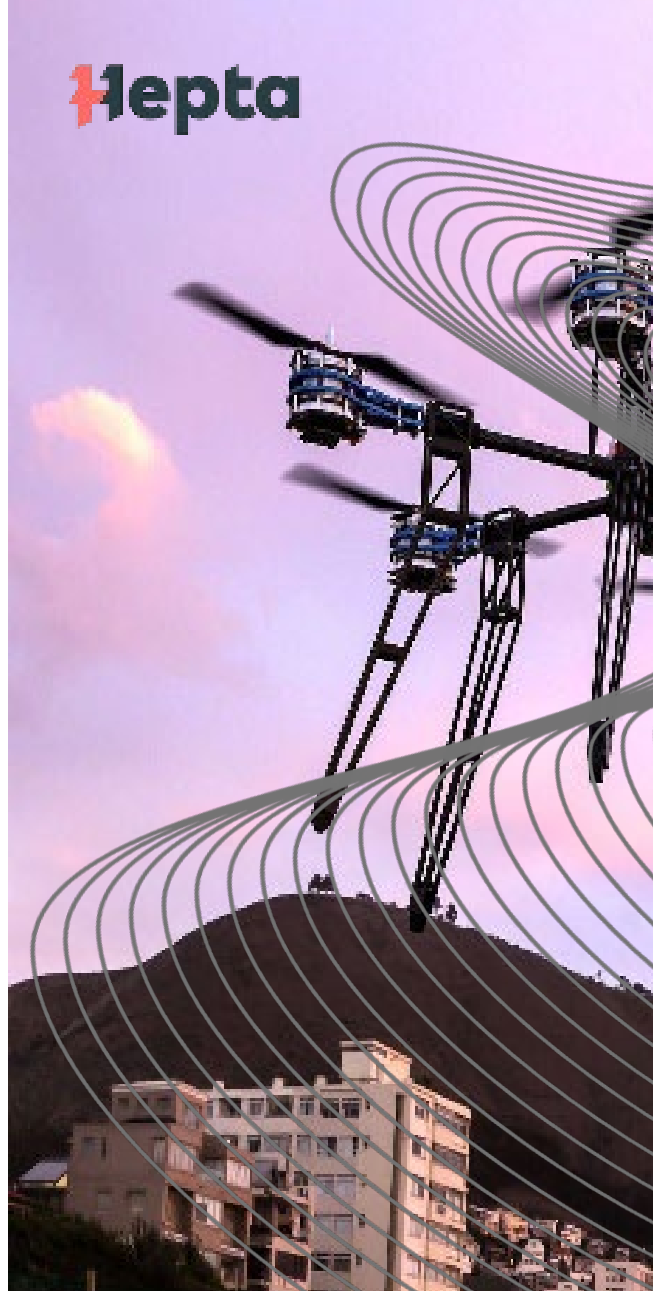
FOUNDER: SIM MARIPUU | SIIM
HEERING | HENRI KLEMMER

COMPANY

Revolutionized power grid inspection with AI reducing costs by 90% while increasing accuracy. Computer vision algorithms trained on 10M+ grid images detect 30+ defect types with 95% accuracy, outperforming human inspectors.

TECHNOLOGY

Hepta's platform combines aerial inspection data from drones with ground sensors and satellite imagery. Machine learning algorithms automatically detect faults, vegetation issues, and structural problems with high accuracy. Creates comprehensive 3D models enabling predictive maintenance.



SOCIAL IMPACT

- Prevents 200+ potential wildfire incidents annually through early detection of equipment faults
- Reduces disaster restoration time by 60%, minimizing economic disruption and improving emergency response
- Makes comprehensive inspection affordable for 10M+ people in developing regions with aging infrastructure

Franchetti

SECTOR: INFRASTRUCTURE
MONITORING

LOCATION: ITALY

DISRUPTIVE TECHNOLOGY: AI-
POWERED STRUCTURAL HEALTH
MONITORING FOR CRITICAL
INFRASTRUCTURE

WEBSITE: www.franchetti.tech/en-gb

FOUNDER: JACK FRANCHETTI

COMPANY

Global leader in AI-powered bridge and tunnel monitoring with digital twin platform monitoring 500+ critical assets. Technology prevents catastrophic failures while extending infrastructure lifespan 15-20 years.

SOCIAL IMPACT

- Detected critical issues in 50+ bridges before becoming safety hazards, potentially preventing catastrophic failures
- Extended structure life by 15-20 years, saving municipalities €100M+ in replacement costs
- Improves infrastructure safety for 2M+ people in underserved regions with limited budgets

TECHNOLOGY

Franchetti's platform combines various sensor technologies with finite element modeling and machine learning. Their digital twin technology creates virtual replicas of structures that evolve in real-time to predict maintenance needs. Predicts maintenance needs 6-24 months in advance with 90% accuracy.



Arteche

SECTOR: ELECTRICAL EQUIPMENT

LOCATION: SPAIN

DISRUPTIVE TECHNOLOGY: ADVANCED INSTRUMENT TRANSFORMERS & PROTECTION SYSTEM FOR SMART GRIDS

WEBSITE: www.arteche.com/es

FOUNDER: AURELIO DE ARTECHE Y ARANA

COMPANY

Europe's leading smart grid protection equipment manufacturer with 75+ years experience and installations in 100+ countries. Optical current transformers enable safe renewable integration at utility scale.

TECHNOLOGY

Arteche's technologies include smart grid instrument transformers for precise electrical measurements, advanced protection relays with fault detection algorithms, and automation systems for remote substation control. Also develops optical current transformers using fiber optic technology. Provides 0.2% accuracy with millisecond fault detection.



SOCIAL IMPACT

- Grid protection enables safe integration of 10GW+ renewable capacity serving 25M+ people
- Advanced protection prevents 99.9% of cascading failures protecting hospitals, water treatment, and emergency communications
- Enhanced worker safety features reduced electrical accidents by 40% protecting thousands of utility workers annually



Klik Energy

SECTOR: ENERGY MARKET
TECHNOLOGY

LOCATION: COLOMBIA

DISRUPTIVE TECHNOLOGY: ENERGY
TRADING & DEMAND RESPONSE
PLATFORM

WEBSITE: www.klikenergy.com

FOUNDER: ANDRES MENCO | LUIS C.
PARRA | ESTEBAN QUINTANA | THOMAS
ROCKHOLT

COMPANY

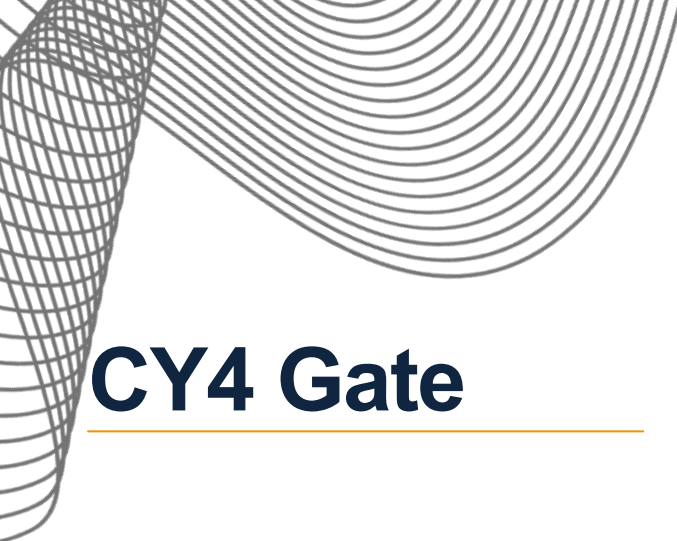
Created Latin America's first energy derivatives marketplace with blockchain-based platform processing \$50M+ annual transactions. 200+ participants including major industrial consumers and renewable generators.

SOCIAL IMPACT

- Demand response reduced peak demand by 15% preventing blackouts affecting 5M+ people
- Energy cost reductions support 50,000+ jobs in energy-intensive industries
- Platform enables integration of 500MW+ renewable energy accelerating clean energy transition

TECHNOLOGY

Klik's platform uses algorithms to predict energy demand, identify flexibility opportunities, and match market participants in real-time. Their system includes automated demand adjustment based on grid conditions and blockchain-based trading systems. Predicts demand patterns with 95% accuracy achieving 10-15% cost savings.



CY4 Gate

SECTOR: CYBERSECURITY

LOCATION: ITALY

DISRUPTIVE TECHNOLOGY: ADVANCED
CYBER INTELLIGENCE & ELECTRONIC
WARFARE PLATFORMS

WEBSITE: www.cy4gate.com/

FOUNDER: EUGENIO SANTAGATA

COMPANY

Europe's leading cyber intelligence provider for critical infrastructure with AI-powered threat detection identifying 99.8% of advanced persistent threats. Serves NATO allies and major European utilities with technology preventing 10,000+ cyber attacks.

TECHNOLOGY

CY4Gate's technologies include AI-powered cyber intelligence platforms for threat monitoring and prediction, advanced persistent threat detection systems, real-time network analytics, and comprehensive electronic warfare systems. Processes 100TB+ daily data with <0.1% false positive rate and <30 minute detection time.



CY4 GATE

●●● ELETTRONICA GROUP

SOCIAL IMPACT

- Protects critical infrastructure serving 100M+ Europeans, preventing attacks on power grids, water treatment, and healthcare
- Has prevented estimated €5B+ in economic damage from cyber attacks on critical infrastructure
- Cyber intelligence supports law enforcement in combating cybercrime and terrorist networks

Erre Due

SECTOR: INDUSTRIAL GAS TECHNOLOGY

LOCATION: ITALY

DISRUPTIVE TECHNOLOGY:
ON-SITE INDUSTRIAL GAS GENERATION SYSTEMS

WEBSITE: www.erreduegas.it/en/

FOUNDER: ENRICO D'ANGELO

COMPANY

Southern Europe's leading on-site gas generation provider with 500+ installations across medical, food processing, and industrial applications. Vertically integrated approach provides superior reliability and lower total cost of ownership.

SOCIAL IMPACT

- Medical systems provide essential gases for 200+ hospitals serving 1M+ patients annually
- On-site generation eliminates hazardous transportation while reducing costs 40-60%
- Green hydrogen capabilities support emerging clean fuel adoption for transportation and industry

TECHNOLOGY

Erredue's technologies include hydrogen generators using PEM electrolysis, nitrogen generators with pressure swing adsorption, oxygen generators with vacuum swing adsorption, and integrated control systems optimizing efficiency and purity. Achieves 99.9995% hydrogen purity and 99.999% nitrogen purity..



Omer

SECTOR: RAILWAY TECHNOLOGY

LOCATION: ITALY

DISRUPTIVE TECHNOLOGY: ADVANCED
RAILWAY INTERIOR MATERIALS &
MODULAR SYSTEMS

WEBSITE: www.omerspa.com/en/

FOUNDER: ERIDE ROSSATO

COMPANY

Preferred supplier of lightweight railway interiors for Europe's leading train manufacturers. Proprietary composites achieve 30% weight reduction while exceeding fire safety standards. Partnerships with Alstom and Siemens.

TECHNOLOGY

OMER's innovations include lightweight composite materials reducing train weight by 30%, acoustic insulation technology for noise reduction, modular interior systems for rapid reconfiguration, and durable coating processes creating maintenance-resistant surfaces. Achieves 30% weight reduction while maintaining structural integrity.

SOCIAL IMPACT

- Lighter components reduce train energy consumption 8-12%, cutting emissions equivalent to removing 100,000+ cars annually
- Manufacturing in Sicily supports 500+ specialized jobs in economically challenged region
- Technology enables developing regions to afford modern rail systems through reduced lifecycle costs

Transformation Areas and Impact

3. MATERIALS INNOVATION & CIRCULAR ECONOMY

THE CONTEXT: resource optimization and the development of new materials are fundamental for a more sustainable and efficient economy capable of meeting human needs with lower environmental impact

OUR COMPANIES IN THIS AREA:



NEXTMOL™

Nextmol

SECTOR: COMPUTATIONAL CHEMISTRY

LOCATION: SPAIN

DISRUPTIVE TECHNOLOGY: AI-POWERED MOLECULAR SIMULATION PLATFORM

WEBSITE: www.nextmol.com

FOUNDER: MONICA DE MIER | STEPHAN MOHR

COMPANY

Created world's most accurate molecular simulation platform combining quantum mechanics with ML for 95%+ accuracy predictions. Serves BASF, Dow, and P&G with proven 60-80% development timeline acceleration.

TECHNOLOGY

Nextmol's platform combines quantum mechanics simulations with machine learning to predict molecular behavior accurately. Their computational methods simulate chemical interactions across multiple scales, with specialized modules for different industries. Operates 1000x faster than conventional quantum chemistry methods while maintaining chemical accuracy.

SOCIAL IMPACT

- Eliminates 80% of physical testing, reducing animal testing by 100,000+ procedures annually
- Accelerated biodegradable alternatives preventing 500,000 tons polymer waste from entering ecosystems
- Enabled 50+ sustainable materials in commercial production, supporting 1,000+ R&D jobs



Seab Energy

SECTOR: WASTE TO ENERGY

LOCATION: UNITED KINGDOM

DISRUPTIVE TECHNOLOGY:

FLEXIBUSTER™

CONTAINERIZED ANAEROBIC DIGESTION SYSTEM

WEBSITE: www.seabenergyvy.com

FOUNDER: SANDRA SASSOW | NICK SASSOW

COMPANY

Revolutionized on-site organic waste treatment with 85% waste volume reduction while generating renewable energy. 50+ installations across Europe with partnerships including Unilever and Nestlé, proven commercial viability where traditional systems failed.

TECHNOLOGY

SEAB's FLEXIBUSTER is a modular anaerobic digestion system housed in shipping containers. The technology uses multi-stage biological processes with proprietary microbial consortia to optimize biogas production from organic waste. Achieves 95% methane content processing 3-5 tons waste daily with 99.5% uptime.

SOCIAL IMPACT

- Each installation diverts 1,000+ tons organic waste annually, preventing 500 tons CO₂-equivalent emissions
- Enables zero-waste strategies for 100+ commercial operations while creating circular economy loops
- Creates 500+ local green jobs in waste management, energy production, and agricultural supply chains



Libelium

SECTOR: INTERNET OF THINGS

LOCATION: SPAIN

DISRUPTIVE TECHNOLOGY: WASPMOTE
SENSOR PLATFORM AND PLUG&SENSE
IoT SOLUTIONS

WEBSITE: www.libelium.com

FOUNDER: ALICIA ASIN | DAVID
GASCON

COMPANY

Europe's leading IoT hardware manufacturer for environmental monitoring with 120+ sensor types deployed across 120 countries. Partnerships with major system integrators enable 10x faster IoT deployment than custom development.

TECHNOLOGY

Libelium's core technologies include the Waspmote platform (modular sensor device with 120+ sensor options), Meshlium IoT Gateway for connectivity, and Plug & Sense! ready-to-use IoT solutions. Features ultra-low power consumption enabling 3-5 year battery life with support for 15+ communication protocols.



SOCIAL IMPACT

- Precision agriculture across 50,000+ hectares demonstrates 30% water reduction and 20% fertilizer savings with 15% yield increases
- Smart city installations reduce traffic congestion 15-20% for 5M+ residents improving air quality
- Environmental monitoring provides early warning systems protecting 1M+ people in high-risk areas

Transformation Areas and Impact

4. AEROSPACE INNOVATION & CONNECTIVITY

THE CONTEXT: aerospace and advanced connectivity technologies are expanding the boundaries of what's possible, with applications ranging from earth observation to revolutionary communications.

OUR COMPANIES IN THIS AREA:

The logo for PLDSPACE, featuring a stylized red and black 'PLD' followed by 'SPACE' in black, with a small trademark symbol.

EMBENTION



W · S E N S E



PLD Space

SECTOR: AEROSPACE

LOCATION: SPAIN

DISRUPTIVE TECHNOLOGY: MIURA
REUSABLE ROCKET FAMILY WITH
TEPREL ENGINES

WEBSITE: www.pldspace.com

FOUNDER: RAUL TORRES | RAUL
VERDU | JOSE E. MARTINEZ

COMPANY

Europe's leading small satellite launch provider with reusable rocket technology reducing costs by 50%. Secured €20M+ in launch contracts representing Europe's answer to SpaceX's small satellite dominance.

TECHNOLOGY

PLD Space has developed Miura 1 (suborbital reusable vehicle) and Miura 5 (orbital launch vehicle) featuring proprietary TEPREL liquid rocket engines with advanced manufacturing techniques including 3D printing. Their recovery systems include reusable first stages and advanced landing technology. Achieves 95% hardware reusability targeting \$7,000/kg to LEO.



SOCIAL IMPACT

- Reduced costs enable 100+ environmental monitoring satellites providing climate data for 2B+ people
- European launch independence supports strategic autonomy for 500M+ Europeans
- Creates 1,000+ aerospace jobs while preventing 500+ tons space debris from expendable rockets



EMBENTION

Embention

SECTOR: AEROSPACE/DRONES

LOCATION: SPAIN

DISRUPTIVE TECHNOLOGY: VERONTE
AUTOPILOT SYSTEMS & SPECIALIZED
UAV PLATFORMS

WEBSITE: www.embention.com

FOUNDER: DAVID BENAVENTE

COMPANY

Global leader in professional drone autopilots deployed in 70+ countries with partnerships including Airbus and Boeing. Triple-redundancy architecture and 20+ years experience provide unmatched reliability for critical applications.

SOCIAL IMPACT

- Precision agriculture across 100,000+ hectares demonstrates 40% pesticide reduction with 15% yield increases
- Search and rescue operations directly saved 200+ lives in disaster zones and emergencies
- Wildlife conservation protects 500,000+ acres through anti-poaching surveillance and ecosystem monitoring

TECHNOLOGY

Embention's flagship Veronte Autopilot features triple redundancy architecture and advanced navigation algorithms. They offer specialized variants including Veronte Agriculture for precision farming with multispectral imaging, and Veronte Pipeline for infrastructure inspection with specialized sensors. Achieves 99.9% mission success with centimeter-level accuracy.

WSense

SECTOR: UNDERWATER COMMUNICATIONS

LOCATION: ITALY

DISRUPTIVE TECHNOLOGY: UNDERWATER WIRELESS COMMUNICATIONS SYSTEM FOR IoT

WEBSITE: www.wsense.it/

FOUNDER: CHIARA PETRIOLI

COMPANY

Pioneered Internet of Underwater Things with world's first commercially viable underwater wireless communication achieving 10x higher bandwidth than acoustic modems. Serves offshore energy and aquaculture markets with no direct competition.

TECHNOLOGY

Wsense's core innovation combines acoustic, optical, and electromagnetic technologies to transmit data underwater. Their systems create self-healing mesh networks that adapt to changing conditions, with higher bandwidth than conventional underwater communication methods. Achieves 1Mbps+ data rates with 10km range between nodes.

SOCIAL IMPACT

- Marine monitoring provides early oil spill warnings protecting ecosystems supporting 100M+ people
- Real-time coral reef monitoring supports conservation of 10,000+ hectares critical marine habitat
- Tsunami early warning systems provide 15-30 minutes additional warning time potentially saving thousands of lives

Transformation Areas and Impact

5. ADVANCED COMPUTING & EMERGING TECHNOLOGIES

THE CONTEXT: Next-generation computational technologies promise to radically transform fields such as medicine, materials science, and energy, offering solutions to some of the most complex challenges.

OUR COMPANIES IN THIS AREA:

Qilimanjaro

SECTOR: QUANTUM COMPUTING

LOCATION: SPAIN

DISRUPTIVE TECHNOLOGY: ANALOG
QUANTUM COMPUTING PLATFORM &
QIBO FRAMEWORK

WEBSITE: www.qilimanjaro.tech/

FOUNDER: VICTOR CANIVELL | POL
FORN.DIAZ | ARTUR GARCIA

COMPANY

Europe's leading quantum computing company focused on practical applications with analog quantum processing delivering quantum advantage years ahead of digital computers. Qibo open-source framework has 10,000+ global users.

TECHNOLOGY

Qilimanjaro's platform leverages superconducting quantum annealing processors for complex optimization problems. They've also developed Qibo, an open-source quantum computing framework for programming both digital and analog quantum processors. Uses 100+ qubit processors maintaining coherence 10x longer than competing systems.

SOCIAL IMPACT

- Drug discovery accelerated 20+ compounds in clinical trials, reducing time-to-market 2-3 years
- Logistics optimization reduces delivery distances 15-25%, cutting transport emissions equivalent to 50,000+ vehicles annually
- Open-source framework democratizes quantum education supporting 500+ researchers in developing countries

LightOn

SECTOR: ARTIFICIAL INTELLIGENCE
HARWARE

LOCATION: FRANCE

DISRUPTIVE TECNOLOGY: OPTICAL
PROCESSING UNITS FOR AI
ACCELERATION

WEBSITE: www.lighton.ai/

FOUNDER: IGOR CARRON | LAURENT
DAUDET | FLORENT KRZAKALA |
SYLVAIN GIGAN

COMPANY

Created world's first commercial optical AI processor achieving 80% energy reduction with 10x performance improvements. Serves major cloud providers and research institutions addressing fundamental energy limitations of digital AI processing.

SOCIAL IMPACT

- Energy efficiency makes advanced AI accessible to 1,000+ smaller organizations including universities and NGOs
- Healthcare AI enables real-time imaging for 10M+ patients in underserved regions
- Prevents 500,000+ tons CO2 emissions annually as optical processing scales across cloud infrastructure

TECHNOLOGY

LightOn's flagship technology uses photonics (light-based computing) rather than electronics for AI matrix operations. Their platform integrates optical processing with conventional systems for hybrid computing optimized for specific AI tasks. Achieves 10 petaops/second performance consuming 100x less energy than GPU clusters.



Novatron

SECTOR: FUSION ENERGY

LOCATION: SWEDEN

DISRUPTIVE TECHNOLOGY: COMPACT
FUSION REACTOR TECHNOLOGY

WEBSITE: www.novatronfusion.com/

FOUNDER: ERIC ODEN

COMPANY

Breakthrough compact fusion technology achieving commercial viability 10-15 years ahead of tokamak approaches. SMART Fusion requires 100x less infrastructure investment than ITER-scale projects while targeting similar power output.

TECHNOLOGY

Novatron's approach uses novel hybrid magnetic and inertial confinement principles with specialized high-temperature superconducting magnets and advanced neutron-resistant materials. Their modular design enables smaller, scalable fusion plants. Operates 50% more efficiently requiring 1/10th facility footprint.

SOCIAL IMPACT

- Commercial fusion by 2040 could provide clean baseload energy for 1B+ people without carbon emissions
- Abundant energy would enable atmospheric carbon capture removing 10+ gigatons CO2 annually
- Technology would create 100,000+ specialized jobs in fusion engineering and manufacturing

SYS-DAT

SECTOR: DIGITAL TRANSFORMATION

LOCATION: ITALY

DISRUPTIVE TECHNOLOGY:
COMPREHENSIVE DIGITAL
TRANSFORMATION PLATFORM

WEBSITE: www.sysdat.it/

FOUNDER: IGOR CARRON | LAURENT
DAUDET | FLORENT KRZAKALA | SYLVAIN
GIGAN

COMPANY

Southern Europe's leading digital transformation partner with 40+ years experience serving 2,000+ clients. Proprietary methodologies reduce digital transition risks by 70% while preserving existing investments.

SOCIAL IMPACT

- Digital transformation enabled 2,000+ SMEs to remain competitive, preserving 50,000+ jobs
- Public sector digitalization improves services for 10M+ citizens reducing bureaucratic delays
- Prevents digital exclusion of 1M+ vulnerable populations through accessibility improvements

TECHNOLOGY

SysDat's platform provides modular solutions for enterprise digitalization, including technology for seamless legacy system integration, process optimization through AI, and secure cloud migration methodologies. LegacyConnect enables mainframe-to-API integration while ProcessOptimizer identifies automation opportunities with 95% accuracy.

Stages of our Investment Process

At Axon, we follow a rigorous and structured process that integrates impact analysis into every phase of our investment decisions:

- 1. INITIAL CONTACT:** We preliminarily value not only the business potential but also the alignment with our vision of positive impact.
- 2. PRELIMINARY INFORMATION REQUEST:** We collect key data about the technology and its potential contribution to social or environmental challenges.
- 3. OPERATION ANALYSIS:** We conduct a detailed study of the business model and its capacity to generate both financial value and social impact.
- 4. LETTER OF INTENT:** We formalize our interest, establishing clear expectations regarding financial and impact objectives.
- 5. DUE DILIGENCE:** We exhaustively verify both the financial aspects and the real potential for positive impact, analyzing the value chain and affected stakeholders.
- 6. INVESTMENT COMMITTEE:** We present and evaluate the operation considering its alignment with our dual strategy of profitability and impact.
- 7. OPERATION CLOSING:** We formalize the investment with agreements that include specific social impact commitments.
- 8. MONITORING AND VERIFICATION:** We continuously work with management teams to measure, maximize, and report their positive social impact, implementing specific metrics aligned with internationally recognized impact measurement frameworks.

This integrated approach allows us to identify and develop companies that not only generate attractive financial returns but also contribute significantly to building a better future

The Axon DNA: Technology with purpose

Technology alone does not guarantee positive impact. What distinguishes Axon Partners Group's approach is our ability to identify technological innovations that not only offer attractive financial returns but are intrinsically designed to improve fundamental aspects of our society:

- 01 We expand access to essential resources (energy, water, etc)
- 02 We increase the efficiency and sustainability of critical systems
- 03 We extend the reach of advanced technological capabilities
- 04 We protect essential infrastructures
- 05 We accelerate the transition towards more sustainable models

What We Bring Beyond Capital:

- **Deep Sector Expertise:** Decades of experience across technology and impact investing enable us to identify breakthrough innovations before mainstream adoption.
- **Strategic Network:** Access to industrial partners, potential customers, and co-investors across Europe and Latin America accelerates commercial traction.
- **Geographic Bridge:** Presence across key European markets and Latin America provides unique international scaling opportunities from day one.
- **Impact Focus:** Proprietary frameworks for measuring social and environmental impact alongside financial returns attract top talent, partners, and purpose-driven customers.

This dual approach (technological excellence and positive impact) constitutes our investment thesis and differentiates us in the private capital ecosystem.

Invitation To Dialogue

The companies presented in this document represent our approach to identifying exceptional investment opportunities in breakthrough technologies. We believe that the most significant returns emerge from backing innovations that redefine entire market categories.

Our ability to identify disruptive technologies before mainstream adoption allows us to enter markets early and build positions in companies that become category leaders. We focus on technologies that solve large-scale problems in ways that existing solutions simply cannot match.

Across five transformation areas (from energy transition to quantum computing), we partner with exceptional entrepreneurs who are building the next generation of market-defining companies. Our investment process rigorously evaluates both the technological differentiation and market opportunity, ensuring each portfolio company has clear paths to significant market share and sustainable competitive advantages.

This is strategic technology investing: where breakthrough innovation creates new markets, and where early identification of category-defining technologies generates superior returns.

We invite you to learn more about our investment approach and explore opportunities for collaboration with Axon Partners Group.

'At Axon, we invest in technologies that don't just compete in existing markets, they solve fundamental problems and create entirely new market categories. We back the breakthrough innovations that become tomorrow's industry standards.'



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