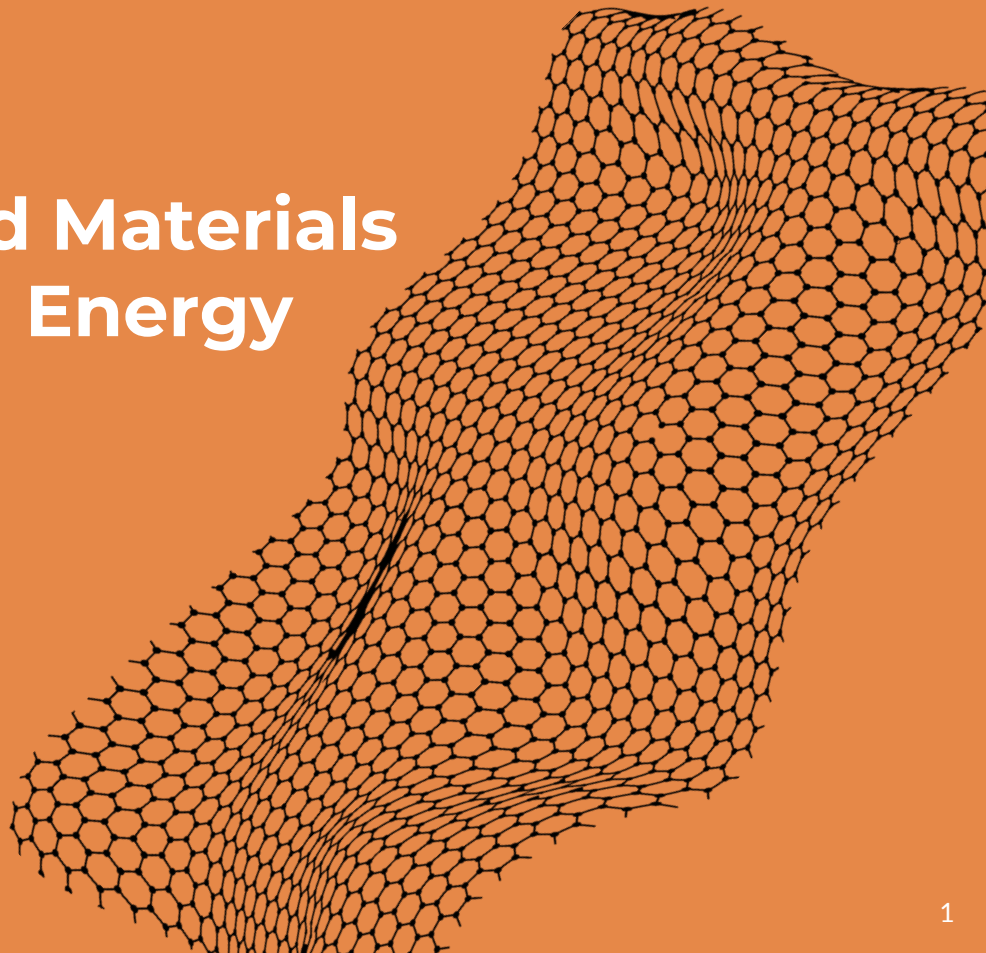
Versarien: Advanced Materials for Next-Generation Energy Storage



June 2025

Dr Stephen Hodge (Versarien CEO)
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AIM: VRS

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Introduction

- **Versarien Plc (AIM:VRS)** is an **IP-led advanced engineering materials** group that utilises proprietary technology to create innovative engineering solutions

- A recognised **nanomaterials company** with a portfolio of high-quality verified materials supported by its own UK based research and development

Core Advanced Material Subsidiaries

Versarien GRAPHENE

Based in Longhope, Gloucestershire is the Group's dedicated graphene manufacturing business

Gnanomat

Based in the Parque Científico Madrid, Spain, capable of utilising Versarien's graphene products in an environmentally friendly, scalable production process for energy storage and multiple other applications

2-DTECH

A spin-out from the University of Manchester, specialises in the supply of graphene products and the transfer of fundamental science to applied technology

Versarien 버자리언 코리아

Versarien Korea was established in 2021 following acquisition of CVD graphene assets and IP from Hanwha Aerospace (formerly Samsung Techwin)

CAMBRIDGE GRAPHENE

A spin-out from University of Cambridge, supplying novel 2d inks and develops materials technology and applications

Versarien HQ, Gloucestershire, UK

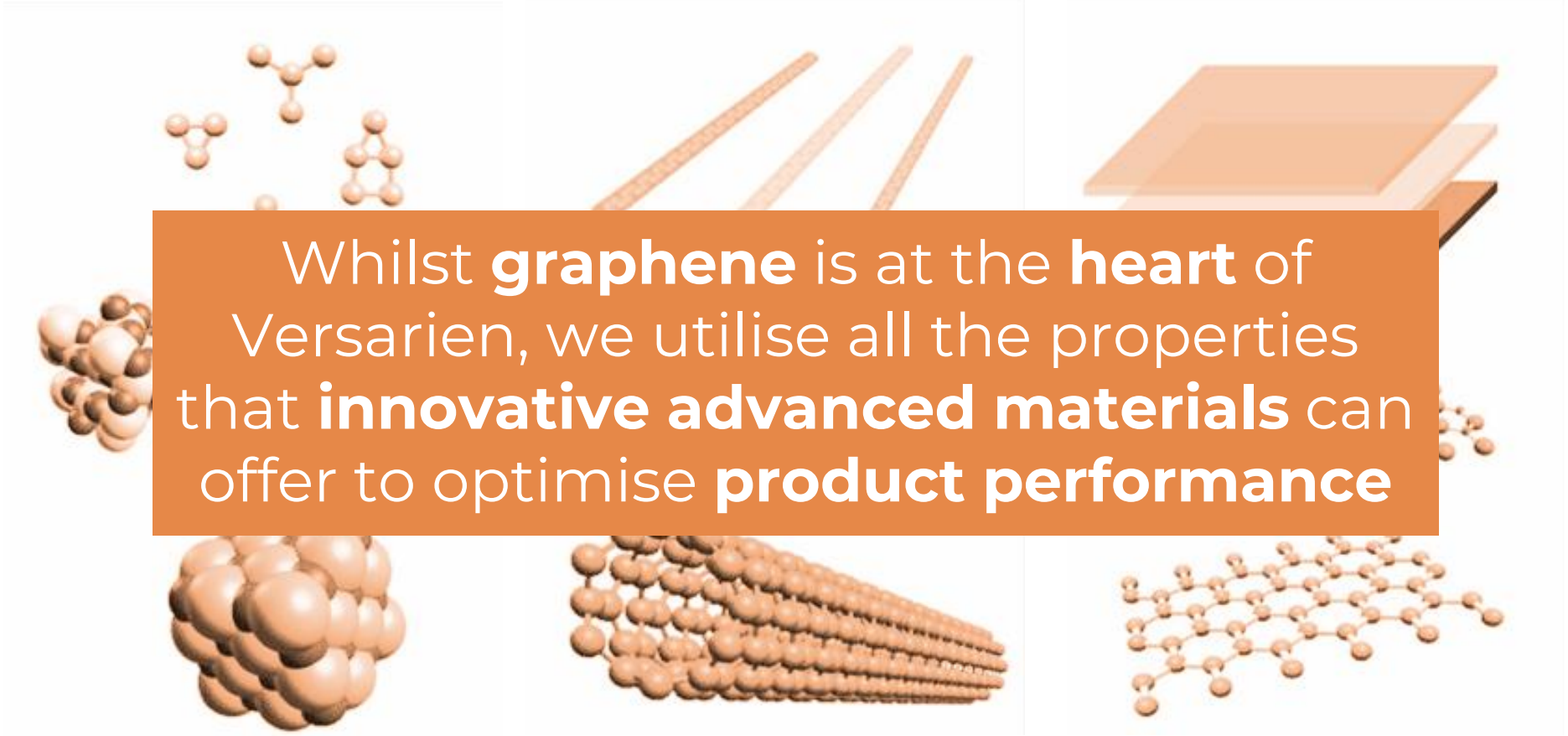
Graphene Engineering Innovation Centre

Nanotechnology and Integrated Bioengineering Centre

Cambridge Graphene Centre

Parque Científico de Madrid.

Versarien Korea & GrapheneLab Co. Facility, Hwaseong-si



Whilst **graphene** is at the **heart** of Versarien, we utilise all the properties that **innovative advanced materials** can offer to optimise **product performance**

Our Materials

A range of nanomaterials, intermediates and enhanced products

VERIFIED GRAPHENE® PRODUCER
THE GRAPHENE COUNCIL

Versarien was the first company in the world to pass the USA's **Graphene Council**'s rigorous **Verified Graphene Producer®** program in 2019 and was re-certified in 2022

Our Materials

“From single atoms …

- Single atom thick CVD graphene
- Graphene, hBN and hybrid nanomaterial powders
- Graphene oxide solutions
- 2d inks
- 2d/polymer compounds and masterbatches
- Access to other nanomaterials (carbon nanotubes (CNTs), carbon black)

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Our Strategy

Monetise our know-how (IP):
Become a **manufacturing light** operation that **licences** Versarien's technology, brands and manufacturing know-how as commercial traction develops

GrapheneLab CVD GRAPHENE EXPERT GROUP

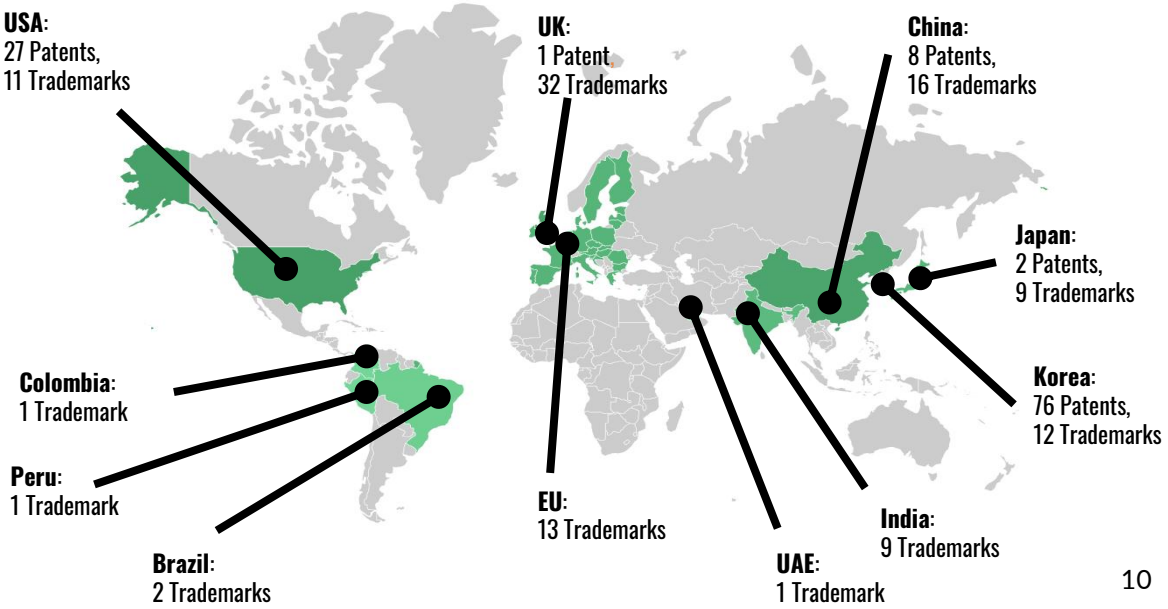
MCK TECH Materials Reinvented

montana Montana Quimica S.A.

Our IP

114 patents globally (as at 8 October 2024)

- **19 patents are licenced** for CVD graphene manufacture in Korea - GrapheneLab (14) and MCK Tech (5)
- **Manufacturing and know-how licence** with South American multi-national paint company Montana Quimica to manufacture selected **Graphinks™** products
- Trademark royalty agreements in place with **several companies** (Umbro, Flux, GoToGym)



Licencing partner: Montana Química (Brazil)

- Production and sale of paints, wood preservatives and other wood finishing products including stains and varnishes.
- *14 March 2024:* entered into a manufacturing licence agreement and a know-how licence and technical assistance agreement for initial 5 year period.
- 10 Mar 2025: supply agreement announced

November 2024: Visit to Montana Química and 2nd National Meeting of the Graphene Forum, Salvador, Brazil

*Launched **SOMA** (SOluções de Materiais Avançados) business unit*

Our sector focus

Post the EC's 10 year Graphene Flagship programme, **IAM4EU / IAM-I** is the newly proposed, "only" innovative advanced materials ecosystem for Europe
Strategic Research & Innovation Agenda (SRIA) slides available at www.iam-i.eu

CONSTRUCTION	ENERGY	MOBILITY	ELECTRONICS
• **Energy efficiency** (embodied; operation) • **Safety** & protection, comfort, preservation of heritage • **Automation & digitization**	• Renewable and low-GHG emission energy • **Advanced energy systems and infrastructures** • **Transformation of energy-intensive industries**	• **Low-carbon mobility** • **Electrification of terrestrial, marine and air transportation**	• **Cutting-edge electronic, optical, photonics and quantum technologies** • Digital connectivity

Energy & Mobility

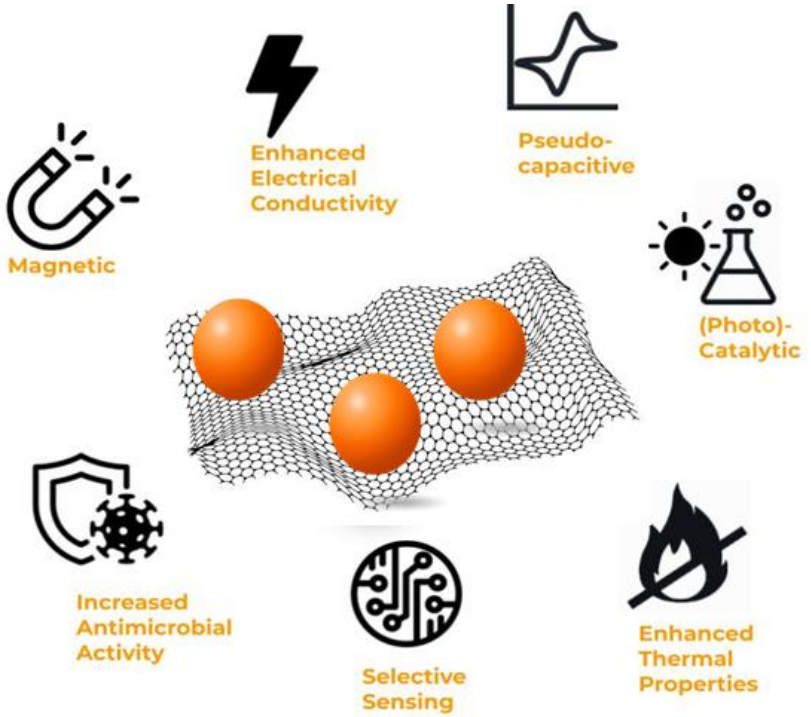
The critical challenges for energy storage devices include improving energy density, efficiency, lifespan, cost-effectiveness, and scalability while addressing safety concerns and environmental impacts

Versarien subsidiary Gnanomat is developing novel and sustainable materials and technologies for pseudocapacitors and batteries (Li-ion and metal-air) with exceptional energy and power density profiles

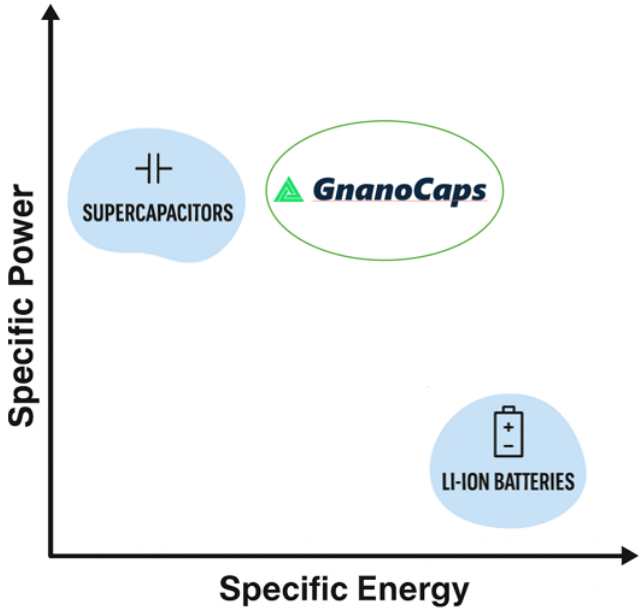
Gnanomat

Hybrid Nanomaterial Platform

- **IP**
  Protected by IP, patents, and exclusive corporate know-how.
- **High Versatility**
  Enables advanced material optimization. Over 100 tailor-made materials developed to meet diverse market needs.
- **Scalable Manufacturing**
  Robust processes ready to meet industrial-scale demand.



GnanoCaps Technology



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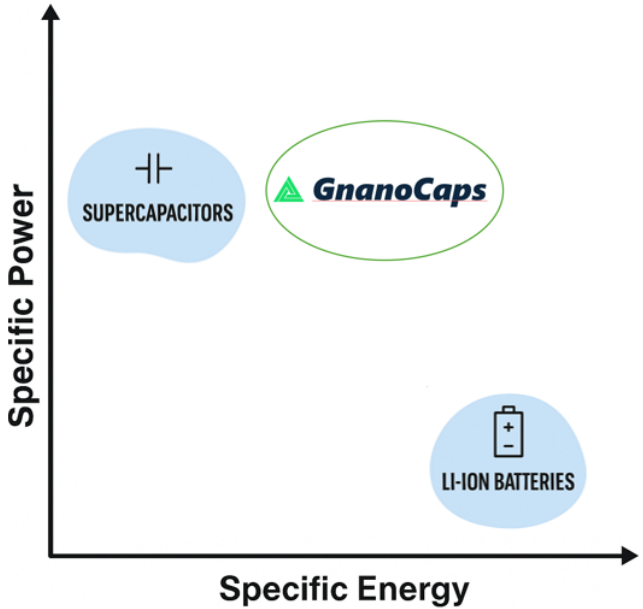

GnanoCaps leverage Gnanomat's cutting-edge materials to deliver superior performance in energy storage devices

- **Enhanced Performance:** This technology surpasses current standards like EDLCs (supercaps)
- **Opportunity niche:** Pair E/P not-covered by current standard technologies
- **Safety and Sustainability:** With non-toxic components and no risk of explosion, GnanoCaps open new opportunities, including use cases in sensitive environments such as aircraft, airports, and ATEX-certified areas

GnanoCaps Technology

ES Technology	Energy	Power	Recharge time	Lifespan (cycles)	Discharge Leakage	Explosion Risks	ECO Friendly components
Supercapacitors	Very Low	Very High	msec	10,000-1,000,000	High	None	Toxic electrolyte
Li-ion Batteries	High	Low	min/hours	1,000	Low	High	Toxic electrolytes and components
GnanoCaps	Med	Very High	secs	10,000-100,000	Med	None	ECO-friendly electrolyte and device components

GnanoCaps Applications & Market Opportunities

Automated Guided Vehicles (AGVs) operating in ATEX atmospheres

Compatible with new trends of safety restrictions and regulatory

ES Technology for Eco-Restricted Environments and Applications

Integration as Back-Up ES with other ES technologies

GnanoCaps for Energy Management of Grids

Smart Grid Integration & Renewable Synergy

- Excellent fit as a backup solution for grid stability and renewable energy integration
- Enables effective storage and use of intermittent energy sources

Environmentally Friendly Innovation

- Employs non-toxic electrolytes and components, suitable for deployment in ecologically sensitive zones

Flexible Application Scope

- Adaptable technology tailored to diverse energy demands—from IoT devices to large-scale backup infrastructures

Hybrid Energy Storage Potential

- Compatible with other energy storage systems for enhanced performance and flexibility

Our Energy Network

Energy Storage Partners

SKELETON TECHNOLOGIES

KYOCERA AVX

ENERGY STORAGE INNOVATOR KORCHIP

eika

GRUPO ANTOLIN

YUNASKO

R&D Institutes

cidetec energy storage

ITCL CENTRO TECNOLÓGICO

instituto IMDEA energia

GOBIERNO DE ESPAÑA MINISTERIO DE DEFENSA

ICP

CSIC Consejo Superior de Investigaciones Científicas

UAM Universidad Autónoma de Madrid

Member of Industrial Platforms

EUROPEAN BATTERY ALLIANCE | EBA250

FUNCTIONAL PRINT CLUSTER

BATTERYPLAT

BATTERIES EUROPE

materplat

IAM-i

FUNDACIÓN Parque Científico de Madrid

Collaborations with global corporations

- Development and exploitation agreements with large companies worldwide: Europe, LATAM, US, Asia
- Innovation projects across different sectors/applications

IRPC

Petrochemical company
More than 4400 employees

CBMM

Mining Company
Net Profit in 2023 R$ 4.9 billion (850 M GBP)
More than 2000 employees

Our Offering

- **Fully integrated** plant for Energy Storage devices:
  - Wet-lab for advanced materials R&D
  - Pre-industrial plant for hybrid advanced materials.
  - Pilot plant for inks and slurries for electrodes & printed electronics
  - Design, assembly and testing of Energy Storage devices
- **Access** to our wide Energy Network and state of the art facilities (Universities of Cambridge & Manchester)
- **Experienced team** of PhD scientists and business developers
- Significant **know-how** → licencing to key strategic partners

Thank You

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