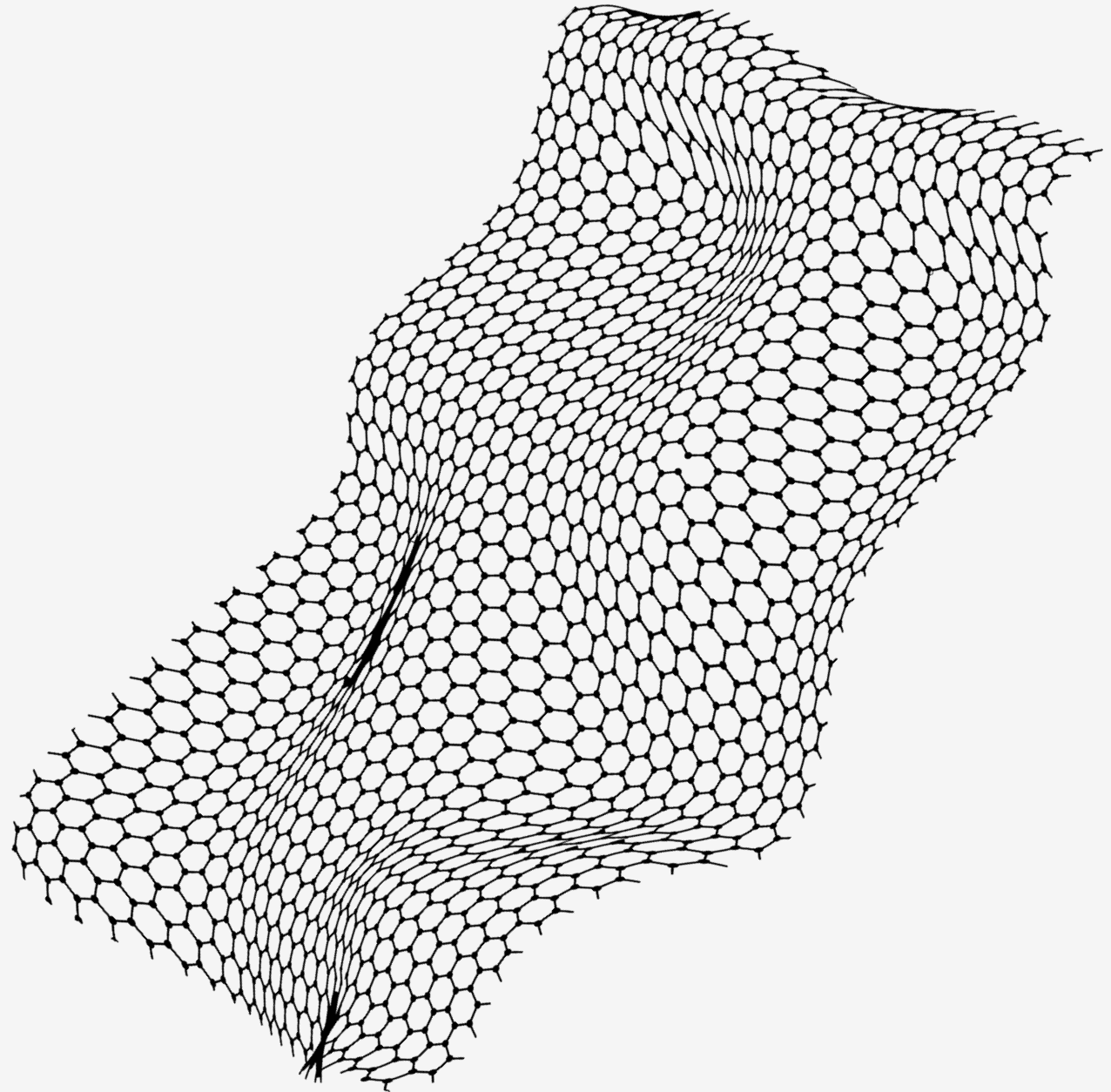




# 12 Months Interims

May 13<sup>th</sup>, 2022



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## Versarien Speakers



**Neill Ricketts**  
Chief Executive Officer

Neill is a graduate engineer with over 20 years of senior level experience in manufacturing and engineering companies. He has demonstrated success in introducing and commercialising new technology, including new materials and coatings for diverse sectors from aerospace to Formula One, including significant work in the oil and gas sector.

Neill holds a number of advisory roles.



**Christopher Leigh**  
Chief Financial Officer

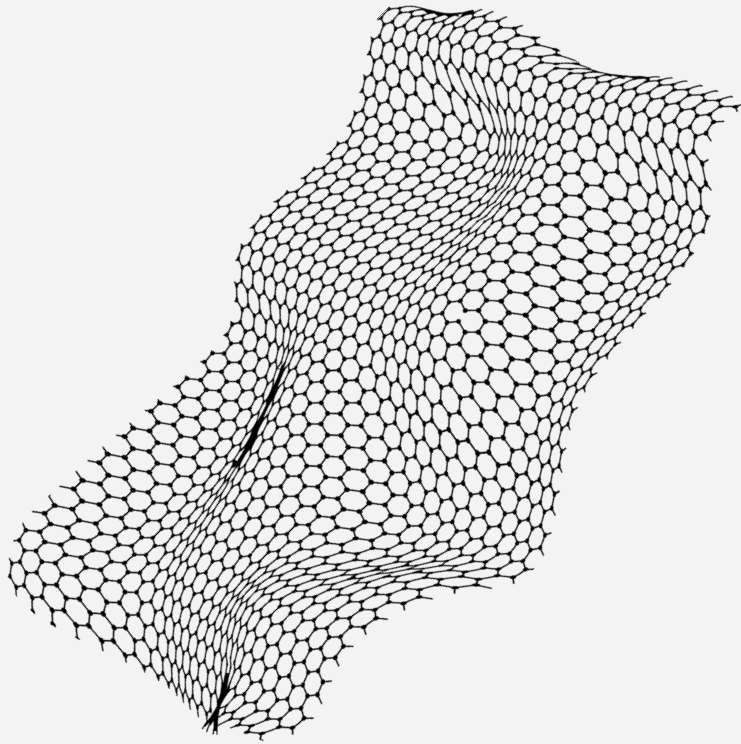
Christopher is a chartered accountant with a significant track record in the manufacturing and engineering sector. His expertise covers corporate finance, mergers and acquisitions, post-acquisition integration, organisational restructuring and change management. He has previously held board-level positions in a variety of companies.



**Dr Stephen Hodge**  
Chief Technology Officer

Stephen was Head of Research at Versarien, a role he held since July 2018. Prior to this, he was employed as a Principal Engineer at Cambridge Graphene Limited, a subsidiary of Versarien. He has also held post-doctoral research associate positions at the University of Cambridge, and at Imperial College London where he also completed a PhD in Nanomaterial Chemistry.

# Graphene



## Light

One of the lightest material in the world.



## Conductive

A superconductor, when stacked, allowing electricity to flow without resistance or energy waste



## Strong

200 times stronger than steel.



## Thin

One million times thinner than a human hair.



## Impermeable

Despite the material's thinness, graphene blocks all liquids and gases.



## Flexible

The low density of each sheet makes it very flexible.



## Transparent

Absorbs light of all visible wavelengths but is nearly transparent because of its extreme thinness.

# Versarien

## Patents

Largest UK portfolio  
120+ in graphene  
space

## Scale

Largest production  
capability in the  
UK

## Product

Plan to launch  
12 products in  
2022

## Connections

University of Manchester,  
University of Cambridge and  
UK Government

## Team

Experienced management team with  
key academics and a key technology  
advisory board

## Reach

Accreditation to produce up to 10t in  
Europe and UK

## Technology

Widest portfolio of  
graphene products

## Global Footprint

UK, USA, China, South  
Korea and Europe

## Graphene Council Accreditation

Only company to pass and be certified  
as a graphene producer

**Scaleable patented technology and  
processes that can be licenced**

## Interim Results for the twelve months ended 31 March 2022

Versarien Plc (AIM: VRS), the advanced engineering materials group, is pleased to announce its unaudited interim results for the twelve months ended 31 March 2022.

Group revenues from continuing operations up 34% to £7.6 million (2021: £5.7 million)\*

Graphene revenues up 170% to £1.9 million (2021: £0.7 million)

Adjusted LBITDA\*\* for continuing operations reduced by 45% to £1.0 million (2021: £1.9 million)

Reported loss before tax from continuing operations of £5.1 million (2021: £8.1 million)

Reported loss for the period of £5.2 million (2021: £8.1 million)

Cash of £3.1 million (2021: £2.4 million)

\* Excludes discontinued revenues of £0.5 million (2021: £0.9million)

\*\*Adjusted LBITDA (Loss Before Interest, Tax, Depreciation and Amortisation) excludes exceptional items, share-based payment charges and Other losses)

## Revenues - Key Points

### **£1.9m total revenue increase:**

£0.7m is from the recovery in the two mature businesses (AAC and TC)

£1.2m from the graphene businesses.

### **£1.9m graphene revenues:**

£0.4m product revenues

£1.5m graphene product development contract

**Cashflow  
and Balance  
Sheet**

**Average net monthly burn rate £0.4m.**

**Cash/headroom of £4.2m**

**Lanstead proceeds dependent upon share price,  
first instrument ends in May and second closing in July 2022**

**We have expended £1.4m in the  
period on scale up equipment.**

**IUK loan becomes  
repayable in 2024.**



## Highlights

**£1.93 million strategic investment in Versarien by Graphene Lab Limited, South Korea together with royalty and trademark agreements including 5% royalty agreement and 2% trademark agreement on sales**

**Acquisition of Spanish graphene manufacturing assets to provide up to an additional 100 tonne powder capacity per annum**

**Orders placed for the purchase of ink scale up equipment to give up to an additional 12,000 litres of ink capacity per annum**

**Lease signed on new dedicated graphene production facility in Longhope, Gloucestershire**

**Focus on textiles and construction whilst still pursuing automotive and aerospace. Superdry and Umbro in progress along with newer companies such as GoToGym.**

**Graphene in packaging is becoming of more interest with new phase 1 development agreements in place with S American based global company.**

**Successfully completed on time and to budget**

### Outcomes

**Project description - 2 projects of which one was military bridging, focussing on lightweighting and demonstrating correlation with Finite Element Analysis and scale model.**

**Project was rated as successful**

**Practical scale demonstrator produced and tested. This will be used as a demonstrator for defence shows by VRS and DSTL**



# Graphene-Wear™ Textiles Update

Video 1







Mission ▶ To revolutionise the textile industry

Size of market **£5.8bn\***

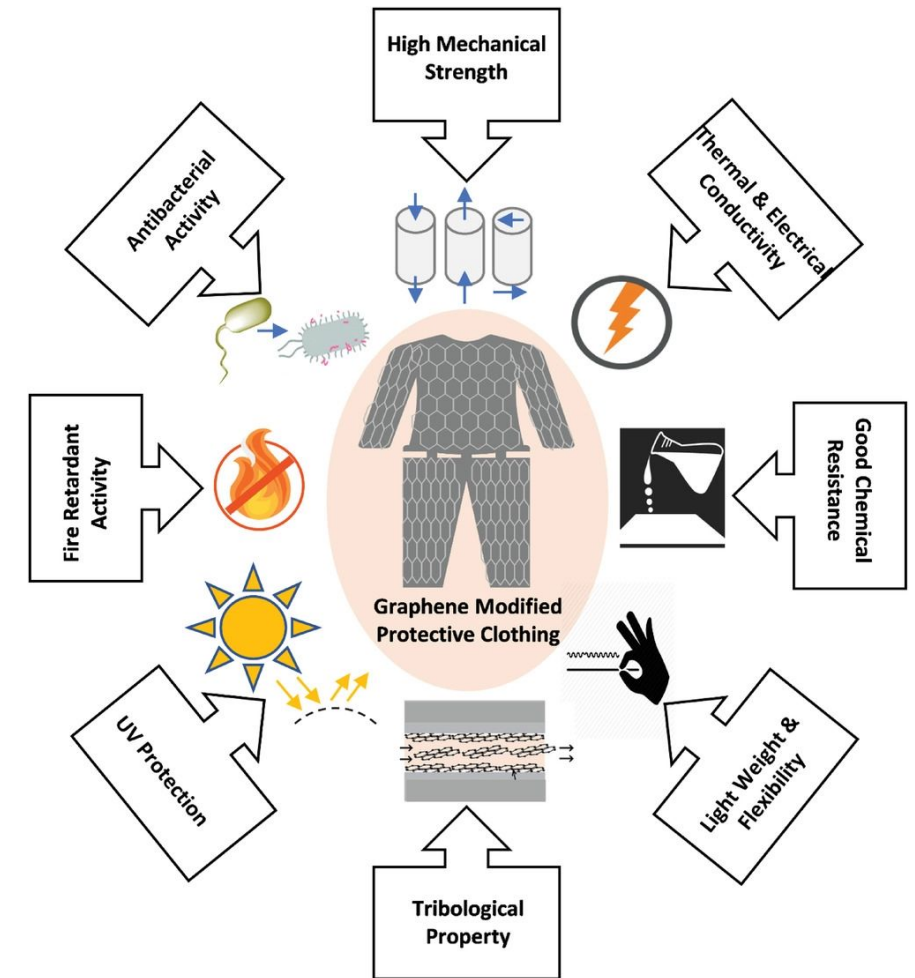
### Problem being solved

Reduction in fossil fuel based polymers, improvement in performance, extension in lifetime of garments, improved recyclability and increased functionality

### Solution being proposed

Printing of 2d material inks, graphene enhanced polymer fibres and recycled materials.

\*<https://www.ukft.org/british-textiles-in-numbers/>

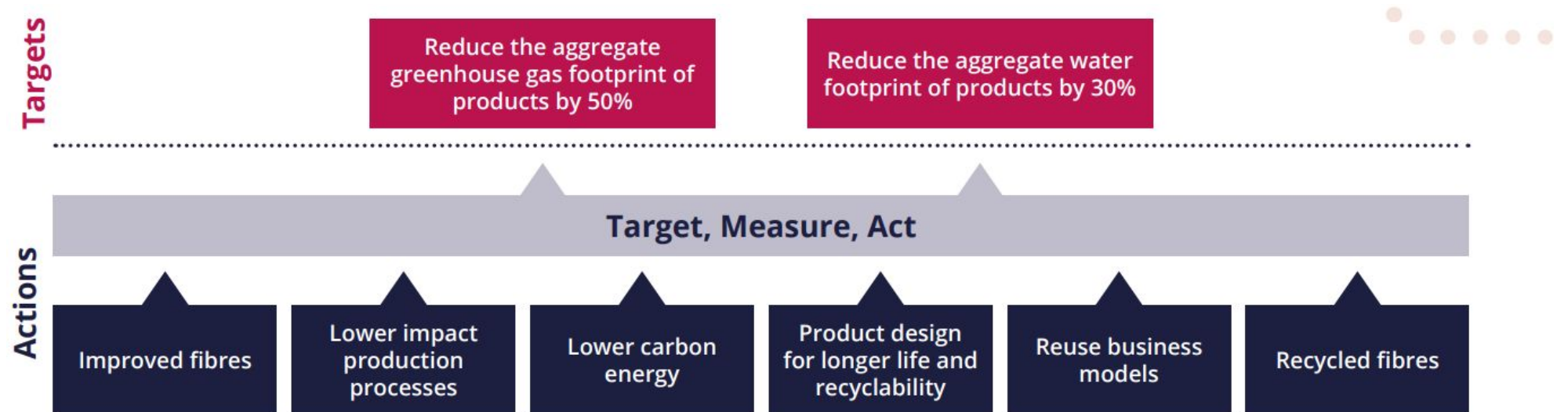


Adapted from Bhattacherjee, S., Joshi, R. K., Chughtai, A. A., Macintyre, C. R., *Adv. Mater. Interfaces* 2019, 6, 1900622.



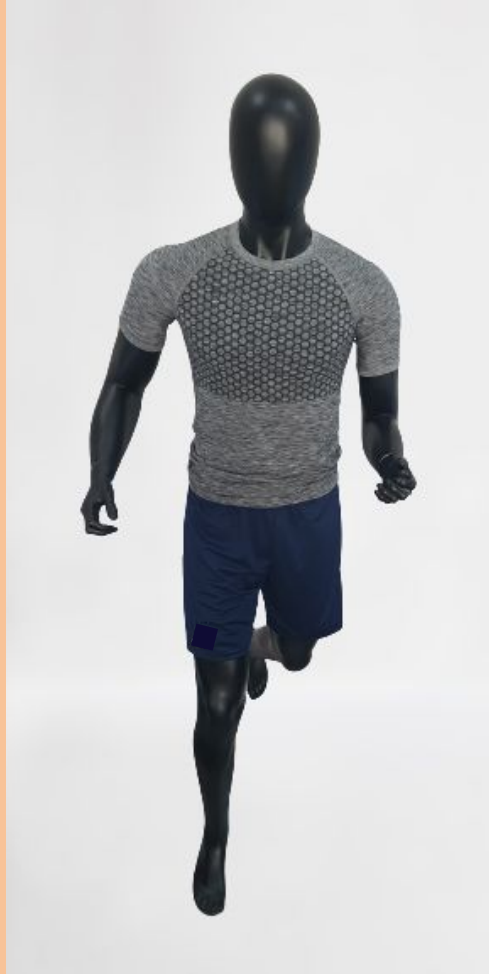
# Textiles 2030

Textiles 2030 is Wrap's new expert-led initiative, harnessing the knowledge and expertise of UK leaders in sustainability to accelerate the whole fashion and textiles industry's move towards circularity and system change in the UK.





Printing →  
Validation →  
Commercial  
Traction

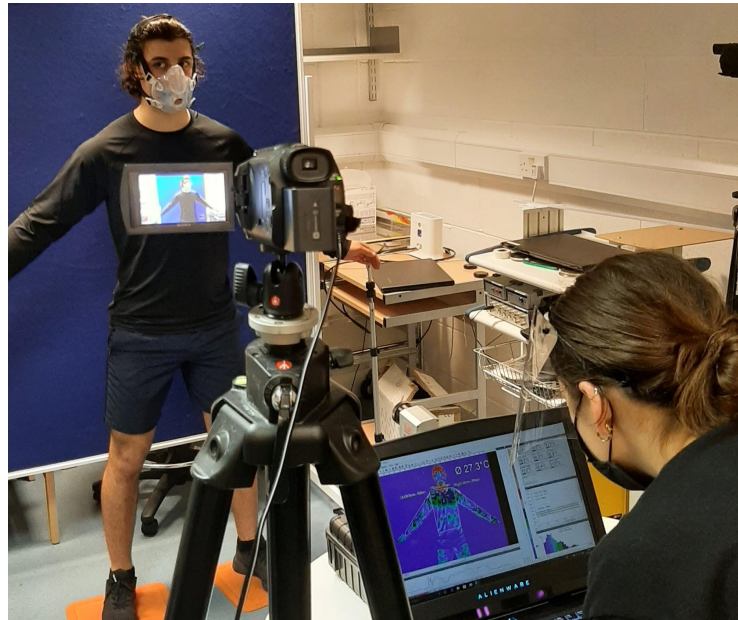
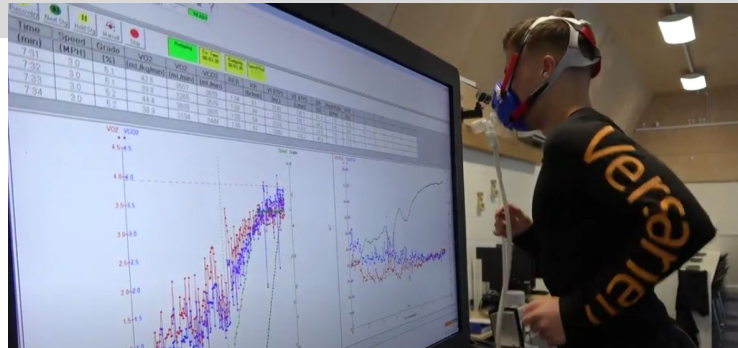






Subjects performed a sub-maximal effort treadmill run (70%  $\dot{V}O_2$  max) for a set duration of 50 minutes whilst wearing one of the trial garments. This was repeated for each garment after a time interval of at least 48 hours. Body mass, garment mass, urine osmolality levels, heart rate, blood samples and internal core temperature were collected/measured every 10 minutes.

## Wearer Trials





Graphene-Wear™ competes well with an existing high market share garment (G-3), and performed better than an equivalent fabric composition market leading garment (G-2) in both thermal and moisture management.

## Wearer Trials

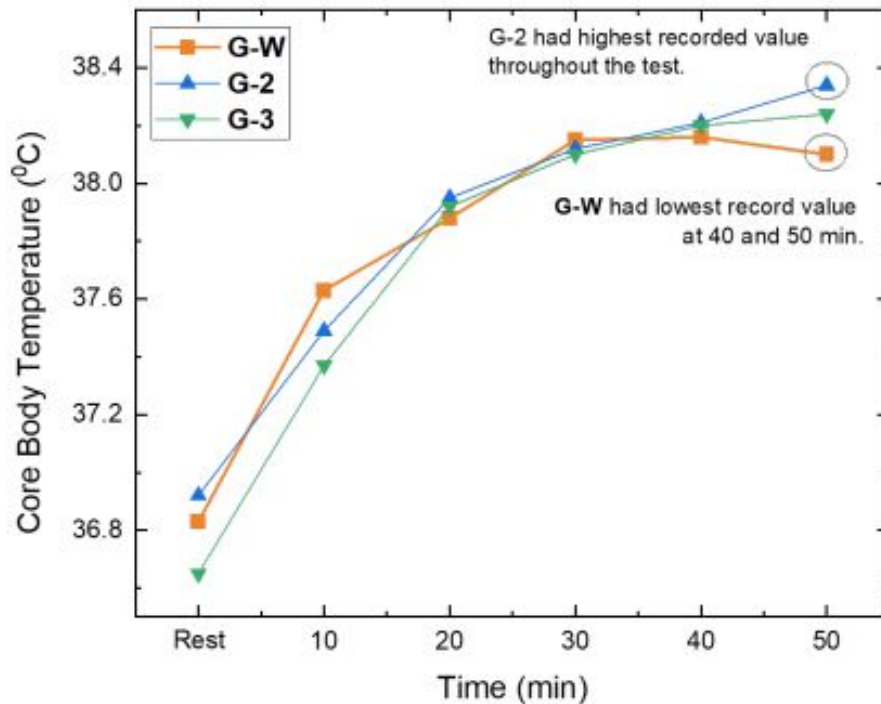


Fig. 8 Subject core body temperature at rest and during the course of the 50 minute test.

Table 4: Overall performance rankings of the tested garments.

Garment	Thermal Performance	Moisture Performance	Perception Ranking	Overall Performance
G-W	1	=1	3	=1
G-2	3	3	1	3
G-3	2	=1	2	=1





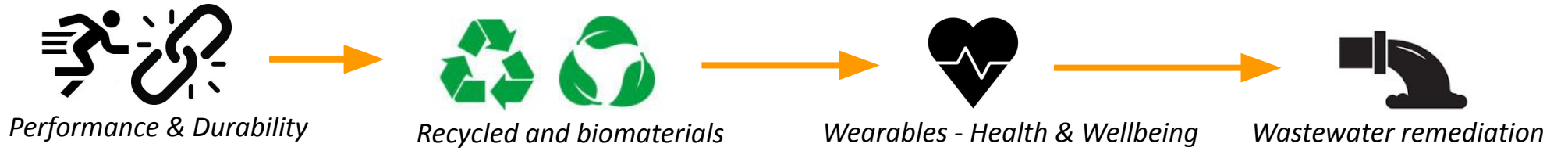
## Graphene-Wear™ offering

- Ready-to-print formulations
- Printed fabrics (printed in the UK and globally)

Large scale  
print trials

**Video 2**





# Textiles Roadmap & Partners





**Website** ▶ [graphene-wear.com](http://graphene-wear.com)

**White paper** ▶ [versarien.com/media-centre/](http://versarien.com/media-centre/)

2D REVOLUTION WEAR ▼ LEARN ▼ READ PARTNER



**GRAPHENE** -WEAR

The Future Of Sportswear Is 2-Dimensional



## Environmental Statement

**Versarien Plc is in a unique position to deliver positive environmental gains within a number of industry segments.**

Concrete production globally represents upto 10% of global CO<sub>2</sub> emissions. The introduction of graphene could reduce the environmental impact by upto 30%.

Versarien is committed to supporting the development of advanced building materials of the future to deliver smart structures.

Environmental benefits from 'lightweighting' of components for automotive and aerospace applications.

Mission to increase the recyclability of plastics and improving the functionality of bioplastics.

Versarien is well positioned to support and drive new energy technologies allowing for faster charging and durability.

Thank you