

Simble advances transparent, stretchable polymer platform for future e-skin applications

5 August 2026

Initial polymer-platform fabrication builds on Simble's earlier UV and longer-wavelength sensing capability, creating a development pathway towards wearable monitoring and connected digital applications.

KEY HIGHLIGHTS

- **Transparent, Stretchable Polymer Platform in Development:** Simble is progressing the design and initial fabrication of a transparent, stretchable polymer platform intended to provide the physical foundation for future wearable e-skin applications.
- **Extending NanoSensor Capability into Wearable Formats:** The workstream builds on Simble's initial UV and longer-wavelength detection results, creating a development pathway for translating the NanoSensor from a standalone sensing component into lightweight, flexible and body-conforming wearable formats.
- **Defined Pathway Towards a Functional E-Skin Prototype:** The development program is expected to progress through material optimisation, mechanical and optical evaluation, NanoSensor integration and functional testing under application-relevant conditions.
- **Personal UV Exposure as the Initial Application:** The initial target application is personal UV exposure monitoring. Successful integration of additional sensing functions could create longer-term opportunities across skin and treatment monitoring, movement and rehabilitation, occupational wellbeing and continuous personal health monitoring.
- **Foundation for Multiple Future Wearable Products:** The polymer platform is being designed to support the NanoSensor and accommodate additional functional layers, creating a common architecture from which application-specific wearable devices may be developed.
- **Potential Integration with Simble's Digital Platforms:** Future wearable devices could connect with SimbleSense and CarbonView to support monitoring, visualisation, alerts and reporting through Simble's existing digital infrastructure.
- **Early Platform Positioning for Scalable Commercialisation:** The architecture is being developed as a reusable sensing platform, designed to support multiple future product pathways and reduce the need for separate hardware development for each new application.

Simble Solutions Ltd (ASX: SIS) (Simble or the Company) is pleased to announce progress in the design and initial fabrication of a transparent, stretchable polymer platform intended to provide the physical foundation for future wearable e-skin applications.

The polymer-platform workstream builds on the initial UV and longer-wavelength detection results reported on 10 June 2026. It represents the next step towards translating the NanoSensor from a standalone sensing component into a flexible wearable format. Current development is focused on the transparency, stretchability and body-conforming performance required for future wearable use, with potential pathways across personal UV exposure, health monitoring and occupational wellbeing, subject to further development and validation.

Where the Polymer-Platform Workstream Sits Today

The polymer-platform workstream is currently at the material design and initial fabrication stage. Current activities are focused on developing and refining polymer structures with the aim of achieving the transparency, stretchability and body conformity required for wearable integration.

The program is expected to progress through a defined development pathway encompassing material optimisation, mechanical and optical evaluation, NanoSensor integration and functional testing under application-relevant conditions. Each stage will generate performance data to inform the platform's progression towards a functional e-skin prototype.



Figure 1. A staged development pathway from initial polymer-platform fabrication towards NanoSensor integration and functional e-skin testing.

With platform design and initial fabrication underway, the next stages are expected to focus on material optimisation, followed by mechanical and optical evaluation. These stages will assess key performance characteristics, including transparency, stretchability and stability under conditions relevant to wearable use. The findings will inform future NanoSensor integration and functional e-skin testing, with progress to be reported in subsequent announcements.

Where Conventional Wearable Platforms Fall Short

Wearable sensing technologies must remain functional while conforming to the body's curved surfaces and responding to continuous movement. However, many conventional sensor platforms are built on rigid substrates or flexible films that can bend but cannot stretch with the skin. This mechanical mismatch can limit comfort, consistent contact and reliable performance during prolonged or movement-intensive use.

Existing stretchable platforms can also involve trade-offs between mechanical flexibility, optical transparency, durability and ease of sensor integration. These constraints become particularly acute for personal and health-monitoring applications, where a wearable device may need to be lightweight, discreet and comfortable while maintaining close contact with the body.

Simble's polymer-platform workstream is investigating transparent and stretchable polymer architectures designed to address these challenges and provide a foundation for the future integration of the Company's NanoSensor technology into wearable formats.

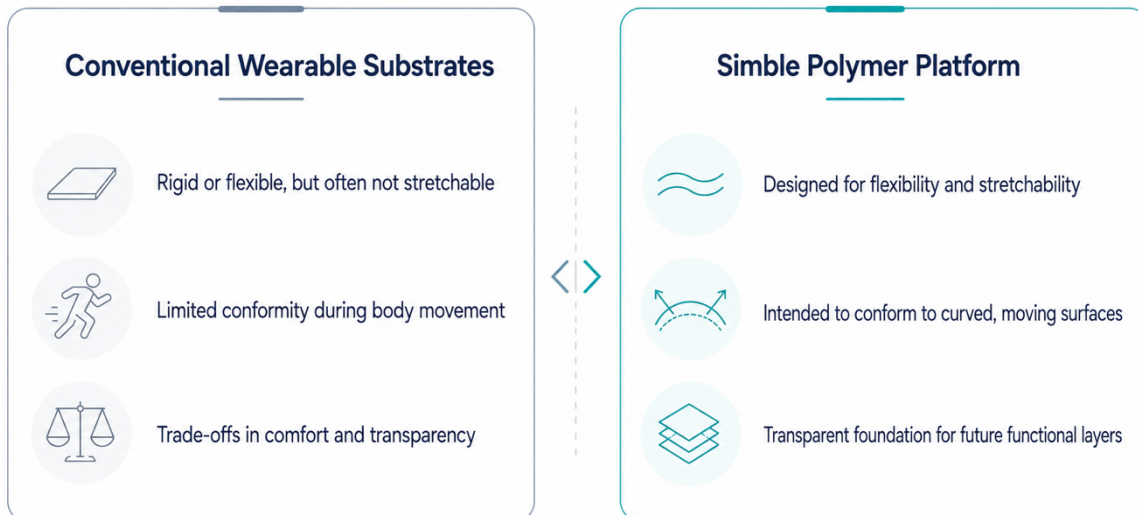


Figure 2. Bridging the gap between conventional wearable substrates and the transparent, body-conforming platforms required for next-generation e-skin.

From NanoSensor Capability to a Wearable Platform

Alongside continued UV and longer-wavelength sensor development, the e-skin program is advancing a complementary polymer-platform workstream intended to support future NanoSensor integration. The objective is to develop a stretchable and flexible physical foundation capable of translating the sensing technology into wearable formats.

The platform is being designed around three core requirements: transparency, stretchability and conformity to the body. Material architectures are being explored and evaluated against these requirements, with the longer-term aim of supporting the NanoSensor and additional functional layers within an integrated e-skin system.

Opening Pathways into Wearable Health Monitoring

A transparent and stretchable polymer platform could create a pathway for extending Simble's NanoSensor technology from standalone UV detection towards a wearable e-skin system. Personal UV exposure monitoring represents the most immediate potential application, with future skin-worn devices designed to track exposure over time and support more informed personal wellbeing decisions.

Beyond UV exposure, the successful integration of additional sensing functions could open longer-term opportunities in skin and treatment monitoring, movement and rehabilitation, occupational wellbeing and continuous personal health monitoring. These applications would require further device development, sensor integration, performance validation and, where applicable, regulatory approval.

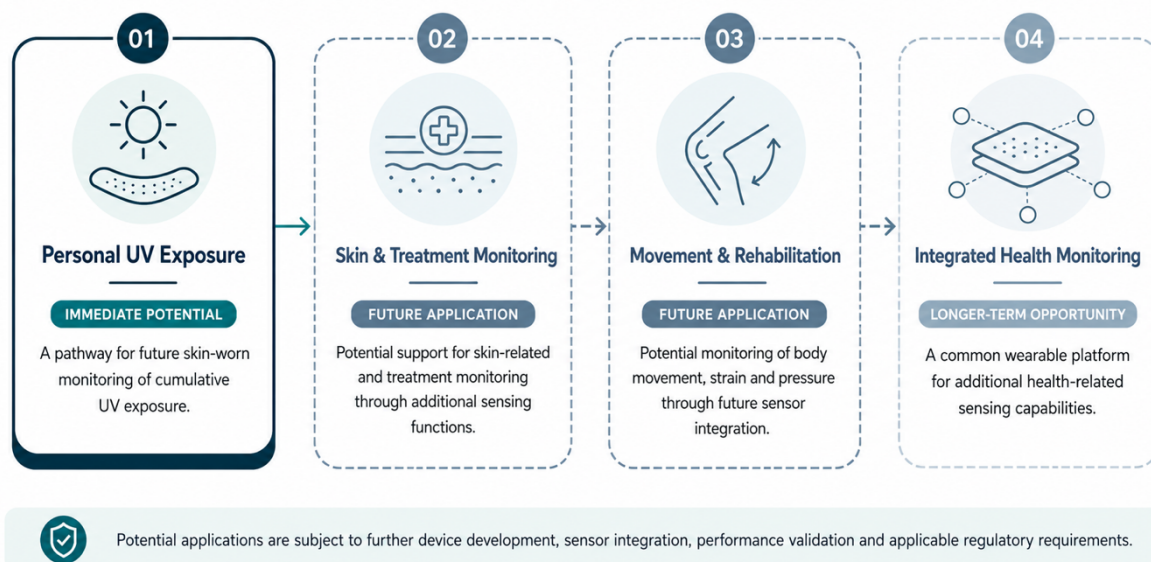


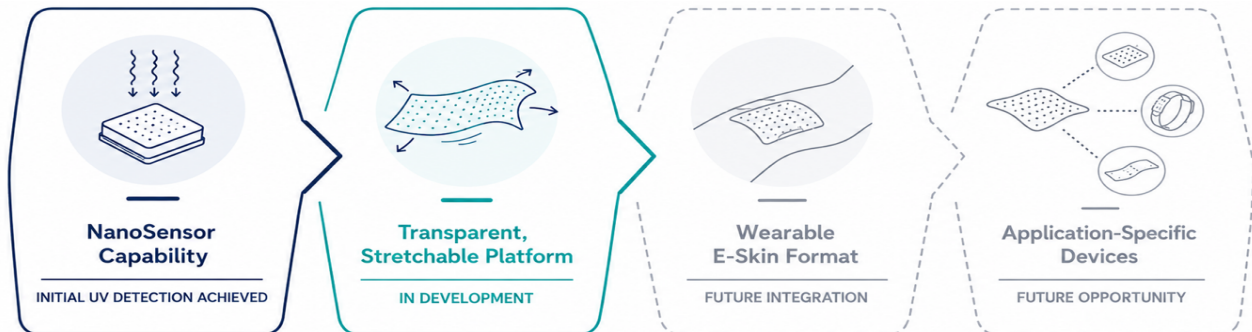
Figure 3. Personal UV exposure provides an initial pathway, while future sensor integration could extend Simble's polymer platform towards broader wearable health-monitoring applications.

Building a Platform for Future Product Integration

Developing a wearable polymer platform represents an important step in extending the NanoSensor technology from a standalone sensing component towards a broader e-skin system. The initial UV and longer-wavelength results provide the sensing starting point, while the polymer-platform workstream focuses on developing the flexible, transparent physical foundation required for future wearable integration.

The longer-term value of the platform lies in its potential to support the NanoSensor, additional functional layers and future sensing capabilities within a common wearable architecture. This approach could allow the program to explore multiple application-specific devices without developing an entirely new physical platform for every use case.

As development progresses, the combination of sensing capability and a common wearable architecture could support more efficient development of differentiated, application-specific devices. These opportunities remain subject to successful fabrication, performance validation and functional integration.



Future stages are subject to successful development, integration and performance validation.

Figure 4. Building beyond standalone sensing: the polymer platform creates a development pathway from initial UV capability towards future wearable e-skin devices.

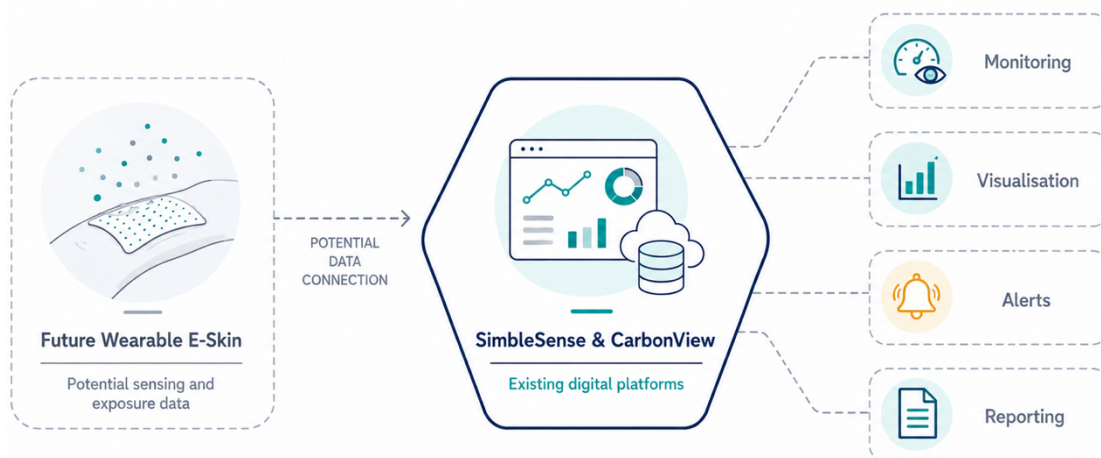
Connecting Wearable Sensing with Simble's Digital Platforms

The potential commercial opportunity extends beyond wearable hardware. Data generated by future e-skin devices could be integrated with SimbleSense and CarbonView to support connected monitoring, alerts and reporting through Simble's existing digital infrastructure.

This hardware-to-software pathway could enable Simble to integrate proprietary sensing technology with its established data management capabilities. Rather than operating as an isolated device, a future connected wearable could form part of a broader ecosystem for collecting, interpreting and reporting application-relevant information.

Simble's engineering teams are continuing platform-readiness activities in parallel, with a focus on positioning SimbleSense and CarbonView to ingest and visualise wearable sensor data as device development progresses.

Subject to successful device development, integration and validation, this approach could create future pathways for application-specific wearable products, connected monitoring services and data-driven reporting across personal wellbeing, healthcare and occupational settings.



Potential pathway from wearable sensing to connected monitoring and reporting.

Subject to successful device development, data integration and performance validation.

Figure 5. Connecting future wearable sensing with Simble's existing digital platforms could enable an integrated pathway from data generation to monitoring, visualisation, alerts and reporting.



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Simble's Chief Executive Officer, Fadi Geha, said:

"Developing a transparent and stretchable polymer platform is an important step in moving our NanoSensor technology towards future wearable applications. Building on the initial UV and wavelength results, this workstream is focused on creating the flexible, body-conforming foundation required for wearable integration."

"Personal UV exposure represents the most immediate potential application, while the future integration of additional sensing functions could open broader pathways across health, wellbeing and occupational monitoring. Longer term, connecting wearable sensing with SimbleSense and CarbonView could extend this opportunity from device hardware into monitoring, visualisation and reporting."

"The workstream is currently at the material design and initial fabrication stage. Upcoming activities will focus on material optimisation, mechanical and optical evaluation and future NanoSensor integration, with progress to be reported as the program advances."

This announcement has been authorised for release by the Board of Simble Solutions Ltd.

ENDS

ABOUT SIMBLE

Simble Solutions Limited (ASX: SIS) is a global Energy and Sustainability provider with integrated solutions across energy efficiency, sustainability and renewable energy development, supporting the global transition to Net Zero.

Following the December 2025 acquisition of exclusive rights to the patented **NanoSensor Technology**, Simble is advancing a structured evaluation program to investigate the platform's commercial potential across multiple application areas.

SimbleSense is an integrated hardware and real-time software solution that enables businesses to visualise and control their energy systems and reduce energy costs.

CarbonView is an enterprise-grade Carbon and Sustainability Reporting platform that allows companies to measure and reduce their carbon emissions and meet their reporting obligations.

Simble operates across the Commercial & Industrial and SME segments, distributing directly via B2B sales and through multiple channel partners, with offices in Australia, the United Kingdom and Vietnam.

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