

28 July 2026

dorsaVi Unveils v6.5 Sensor, a Critical Launchpad for its Physical AI Infrastructure Strategy

Completion of a Physical AI wearable, built on dorsaVi's FDA-cleared, TGA-certified platform, that decides and acts on movement in real time, marking a key step in the Company's Ultra-Edge commercialisation strategy.

Key Highlights:

- **Commercialisation Ready:** dorsaVi has completed its first Physical AI Sensor, an intelligent wearable sensor that processes movement, decides and delivers feedback in real time on the device itself, with no base device (iPad) or cloud connection required.
- **Sensor v6.5 is dorsaVi's first Physical AI product:** intelligence that runs at the point of sensing, not on a base device (iPad or PC) and not in the cloud. This is the direction robotics, autonomous systems and industrial edge are all headed, and dorsaVi is already moving in that direction with a commercialisation-ready product.
- **Roadmap Underpinned by RRAM:** Sensor v6.5 runs on conventional silicon today, with a roadmap built around dorsaVi's Ultra-Edge Modular Design and Build program¹, which uses RRAM and related compute-in-memory technologies to push future generations toward always-on operation.
- **Built on a Proven, Regulated Platform:** Sensor v6.5 extends a platform that is FDA-cleared and TGA-certified, with more than a decade of deployment across clinical, elite sport, defence and occupational health. Its wearables have been used by leading organisations across military aviation, sport, resources, automotive, heavy industry, construction, transport, retail and healthcare.
- **Intelligence at the Point of Sensing:** Sensor v6.5 performs analysis and decision-making on the sensor itself, removing the latency, bandwidth and power cost of sending data to the cloud and back. This places dorsaVi within the wider shift of AI processing and toward the devices that sense the physical world.
- **Clinically Validated Principle:** Sensor v6.5 embeds the approach proven in dorsaVi's Randomised Controlled Trial² (P Kent, 2015) in chronic low back pain, that feedback delivered at the moment of a movement fault improves outcomes, directly into the wearable.
- **Configurable, Real-Time Biofeedback:** Sensor v6.5 assesses movement quality on the device, distinguishing normal movement, elite performance characteristics and patterns associated with injury risk, and delivers configurable haptic, audible or visual biofeedback within milliseconds.

¹ ASX Announcement 6 May 2026

² <https://pubmed.ncbi.nlm.nih.gov/26022102/>

Melbourne, Australia, 28 July 2026 – dorsaVi Ltd (ASX: DVL) (“dorsaVi” or “the Company”) is pleased to announce the commercial launch of **Sensor v6.5**, an intelligent wearable sensor that processes and responds to movement directly on the device in real time, without relying on continuous cloud connectivity. It is dorsaVi’s first commercial expression of Physical AI– intelligence operating at the Ultra Edge.

Most of the AI investors read about lives in a data centre. It writes text, generates images and answers questions, remote from where anything physically happens. The next wave, AI that senses the physical world and acts on it in real time, is widely expected to arrive first in the vehicles and robots that can carry the necessary power and compute. A body-worn device cannot carry that budget, which is why intelligence on the body has been the harder problem to solve. It is the problem dorsaVi has been building against for more than a decade, through an FDA-cleared, TGA-certified movement-analysis platform used by clinicians, researchers, elite sporting organisations and defence agencies to measure complex human movement objectively. Sensor v6.5 is the next step, from measurement to intelligence, within a platform that is already cleared and commercially ready for launch.

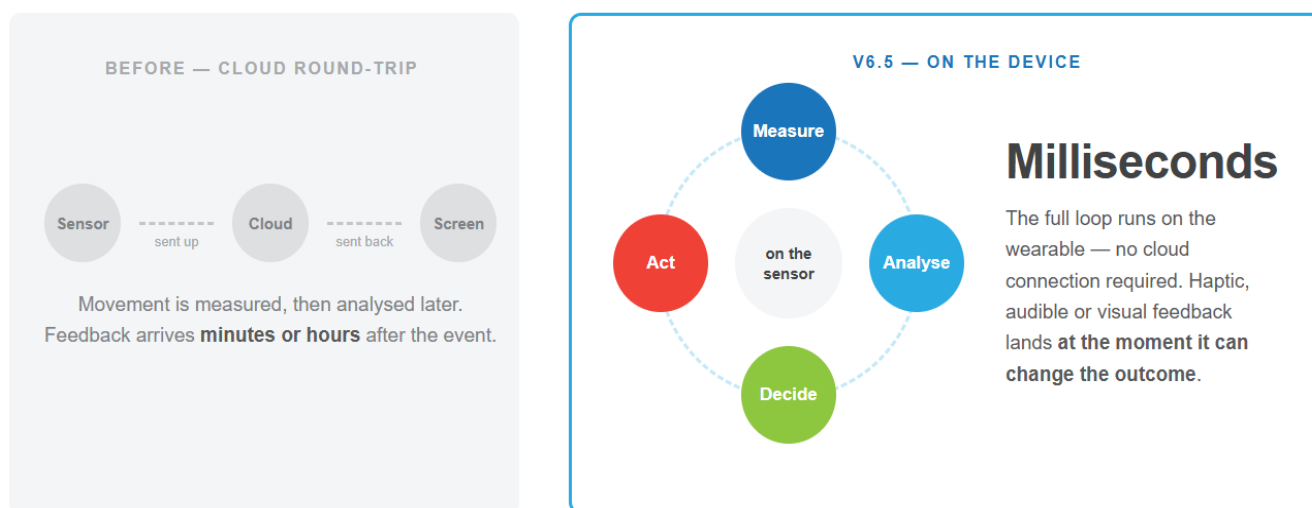


Figure 1: Cloud round-trip versus on-device. Conventional wearables send movement data to the cloud and back, so feedback arrives minutes or hours later. V6.5 runs the full measure, analyse, decide and act loop on the wearable, delivering feedback in milliseconds.

Physical AI, and Why dorsaVi Is Already Doing It

Physical AI is different from the AI most people picture. It describes systems that sense the physical world, interpret what is happening, make an automated decision and act on it in real time, at the point where the event occurs. It is emerging first in autonomous vehicles, robotics and industrial systems, almost all of which run on power, size and compute budgets that a body-worn device cannot carry.

This is why intelligence on the body has stayed out of reach. The open question has never been whether Physical AI works, but whether it can run on the body, always-on, in remote locations, without wifi/cloud support and within the power envelope of a wearable. That is a memory and compute problem, and until it is solved the on-body category stays theoretical. A product that already runs the full loop on the body is the signal that matters, not a projection of what edge AI might one day do.

Sensor v6.5 delivers Physical AI on the body. It senses human movement, determines whether that movement indicates elevated injury risk, and delivers biofeedback on the device within milliseconds, on dorsaVi's proven, FDA-cleared platform. It runs this loop on conventional silicon, and its architecture has been designed with dorsaVi's memory roadmap in mind, so that future generations can integrate the Company's RRAM-based memory and compute-in-memory technologies directly.

Built on RRAM, compute-in-memory and neuromorphic processing, these technologies are designed to run actively within memory itself at power levels conventional architectures cannot achieve. As developments progress, they aim to extend on-device intelligence toward always-on operation on a coin-cell power budget in future sensor generations. Sensor v6.5 demonstrates the capability today; the Ultra-Edge Modular Design and Build program is designed to advance it further.

From Measurement to Intelligent Action

Conventional wearables transmit movement data to a phone or server for later analysis, so any intervention arrives after the event. Sensor v6.5 moves the full loop onto the sensor, running the 'measure, analyse, decide and act' in real time with no cloud round-trip:

- **Measure:** Raw movement captured on the body.
- **Analyse:** Real-time processing and interpretation of movement data on the sensor, with no cloud round-trip and no latency penalty.
- **Decide:** Onboard assessment of movement quality, distinguishing normal movement, elite performance characteristics and patterns associated with injury risk.
- **Act:** Configurable haptic, audible or visual biofeedback delivered within milliseconds of a movement event, at the moment it can change the outcome.

[CONVENTIONAL WEARABLE • CLOUD ROUND-TRIP]



feedback_delay = minutes + hours (after the movement event)

[V6.5 • INTELLIGENCE AT THE POINT OF SENSING]

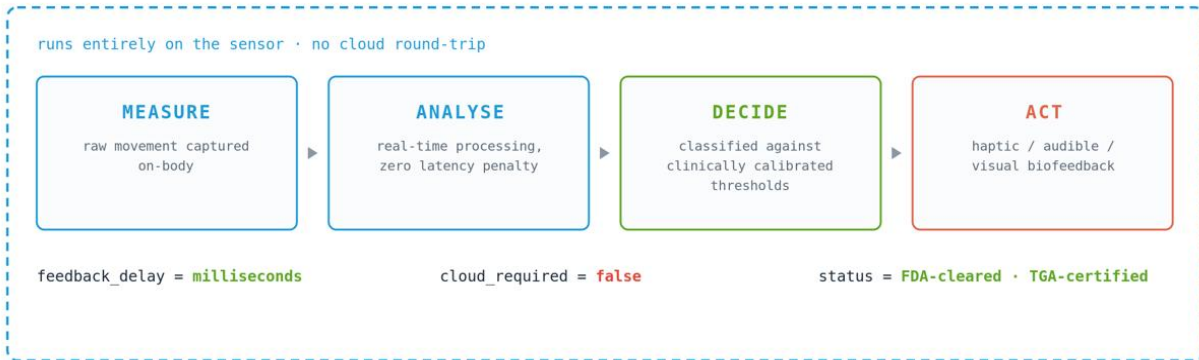


Figure 2: What V6.5 does today, and the chip being developed to power it, RRAM for low-power memory, Compute-in-Memory to cut the energy per decision, and neuromorphic processing for always-on efficiency

The effect is tangible in use. Whether an athlete shows excessive knee valgus on landing, a runner crosses a safe impact-loading threshold, a soldier begins to fatigue during active operations, or a rehabilitation patient moves outside prescribed parameters, the sensor recognises the event and delivers an appropriate response within milliseconds, rather than minutes or hours later.

The clinical case for real-time biofeedback is established. dorsaVi's Randomised Controlled Trial in chronic low back pain showed that feedback delivered at the moment of a movement fault, rather than reviewed on a screen later, significantly improved movement outcomes. Sensor v6.5 applies that validated principle in the wearable.

Why Intelligence Is Moving to the Ultra-Edge

The first wave of AI investment concentrated in data centres and remains substantial, but a structural constraint is emerging alongside it. Sending data to a distant server and back adds latency, consumes bandwidth and draws power, and centralised compute is running into physical limits on energy and grid capacity. The response is to move processing to where the data is created.

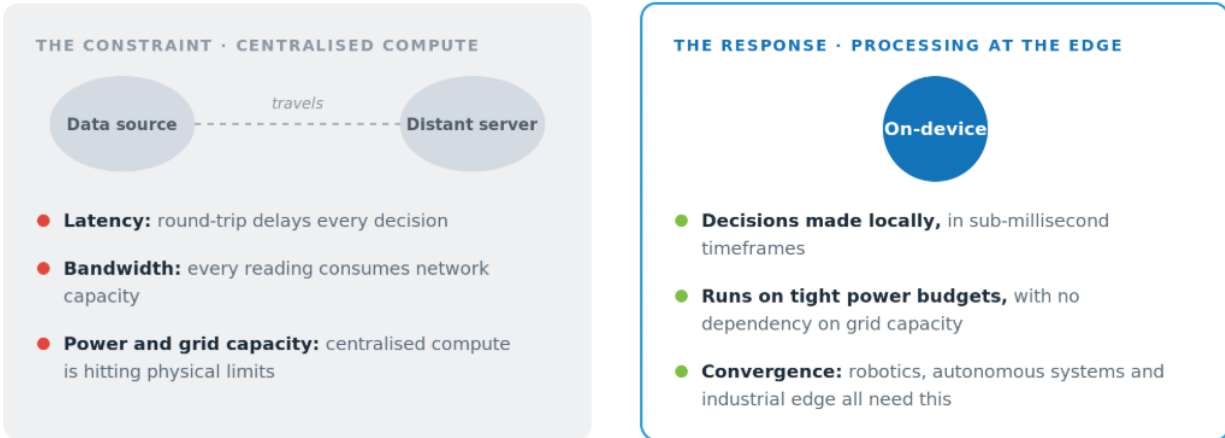


Figure 3: Why intelligence is moving to the Ultra-Edge. Sending data to a distant server and back adds latency, consumes bandwidth and draws power from a strained grid. Processing on the device removes the round-trip, so decisions are made locally in sub-millisecond timeframes.

Powering Physical AI: dorsaVi's Memory and Compute Roadmap

Physical AI is what V6.5 does today. The custom hardware dorsaVi is developing is what will let it do more over time: run longer, draw less power and stay always-on. This is the engine underneath the platform, and it is a deliberately longer-term program. Three technologies are in development, each aimed at a constraint that currently limits how much intelligence a body-worn device can carry:

- **Resistive Random-Access Memory (RRAM):** Non-volatile memory that stores information and keeps it even when the device is off, using far less power than the memory in today's devices. This is what lets a wearable carry more intelligence without draining the battery.
- **Compute-in-Memory (CIM):** Conventional devices constantly shuttle data between a memory chip and a separate processor, which wastes time and power. dorsaVi's approach does the computing inside the memory itself, so the data does not have to move. Removing that back-and-forth is what lets a wearable do real work on a very small power budget.
- **Neuromorphic Processing (the "reflex engine"):** Rather than running constantly, the sensor stays quiet during normal movement and wakes only when something meaningful happens, the way the nervous system stays at rest until it needs to react. This keeps power draw minimal until the instant a response is required.

Because inference occurs within the RRAM array itself, rather than moving data back and forth between separate memory and processor, the design targets power levels low enough to run on a coin-cell battery, a threshold conventional architectures cannot reach, while still delivering meaningful AI. It is being built for the power envelope of a body-worn sensor, not adapted from data-centre or general-edge parts.

The Company's FDA-cleared, commercially deployed platform gives it a route to introduce and validate these technologies under real operating conditions as they mature, rather than only in laboratory prototypes. This program forms part of dorsaVi's five-stage Execution Plan, with the manufacturable

hardware platform set out in the Company's Ultra-Edge Modular Design and Build program³ and design priorities guided by the Company's Technical Advisory Board, which includes Roger Peniche, former Vice President of Engineering and Manufacturing at Omron Robotics.

THE ENGINE **A custom chip for the body**

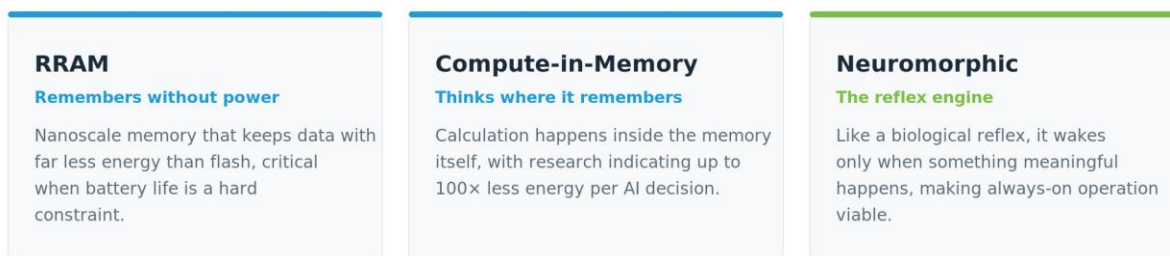


Figure 4: The three technologies in dorsaVi's memory and compute roadmap: RRAM for low-power memory, Compute-in-Memory to cut the energy per decision, and neuromorphic processing for always-on efficiency.

Commercial Applications, from Sport to Defence to Industry

The immediate applications of V6.5 are in healthcare, sport and rehabilitation, and defence where dorsaVi already has an established, FDA-cleared commercial presence. The same architecture supports significantly broader deployment:

- **Healthcare and Rehabilitation:** Intelligent wearables guide patients through recovery protocols and provide corrective feedback beyond the clinic, supporting adherence and reducing re-injury risk.
- **Elite Sport:** Immediate biofeedback reinforces optimal movement patterns during training and lowers cumulative exposure to injury mechanisms before they become habitual, across any sport involving repetitive loading, from running and ball sports to Olympic lifting.
- **Defence and Physically Demanding Occupations:** Real-time fatigue detection and movement-quality monitoring for soldiers, emergency services and industrial workers, where musculoskeletal injury is a significant cause of lost operational time.

³ Refer to ASX Announcement dated 06 May 2026

- **Robotics and Exoskeletons:** The measure, analyse, decide and act architecture that guides human movement also applies to exoskeleton control, collaborative robotics and industrial automation. In these settings the same sensing and decision core is paired with a machine-control interface in place of human biofeedback, extending the platform without new foundational sensing or decision R&D.

MEASURE → ANALYSE → DECIDE → ACT

one shared core across every market

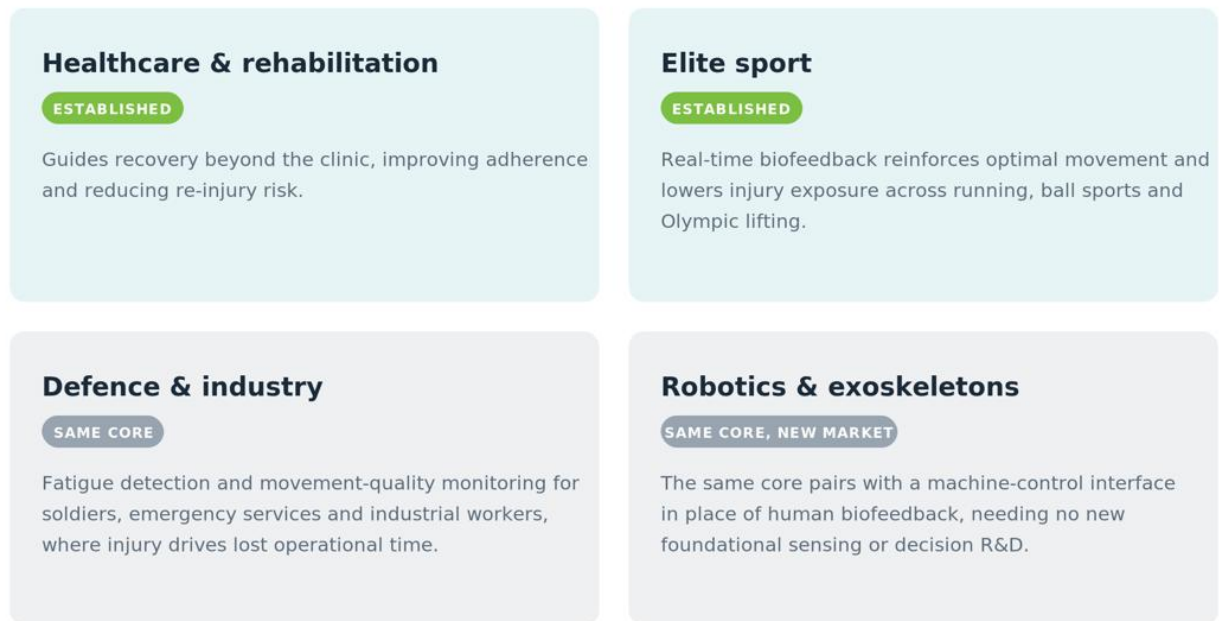


Figure 5: Showcasing the key markets dorsaVi is already in, and which ones dorsaVi is targeting.

Mathew Regan, Group Chief Executive Officer of dorsaVi, said:

“For more than a decade, dorsaVi has helped customers objectively measure human movement. Sensor v6.5 is the first of our platforms that can also decide and act on that movement directly on the device, moving intelligence from the cloud to the point where the data is created. It is built to deliver faster, more intelligent biofeedback at the moment movement happens, and it is complete and ready to commercialise on our regulated, FDA-cleared platform.

The sensor and the custom hardware we are developing are one strategy, not two: on-body Physical AI ready for market now, and the engine to power it more efficiently as it matures. We are progressing the second part in a staged and deliberate way, and will report against defined milestones as we reach them.

Importantly, the same sense, decide and act core that guides a person's movement is also the starting point for guiding a machine's. Paired with a machine-control interface in place of human biofeedback, it is the foundation we intend to build on for exoskeleton control and, over time, collaborative robotics. We are starting where we are strongest, on the body, with a clear line of sight into the broader Physical AI opportunity”

- ENDS -

This release has been authorised for lodgement to the ASX by the Board.

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Forward-Looking Statements

This announcement may contain certain forward-looking statements and projections. Such forward-looking statements/projections are estimates for discussion purposes only and should not be relied upon. Forward looking statements/projections are inherently uncertain and may therefore differ materially from results ultimately achieved. dorsaVi Limited does not make any representations and provides no warranties concerning the accuracy of the projections and disclaims any obligation to update or revise any forward-looking statements/projections based on new information, future events or otherwise, except to the extent required by applicable laws.

About dorsaVi

dorsaVi Ltd (ASX: DVL) is an ASX company focused on delivering intelligence at the ultra-edge. Enabling real time AI-driven decisions to be made locally, at the point of sensing, without reliance on cloud connectivity. dorsaVi's wearable sensor technology captures, quantifies, and assesses detailed human movement and position outside a biomechanics lab, in both real-time and real situations for up to 24 hours, across clinical applications, elite sports, and occupational health and safety. Underpinning this vision, dorsaVi is building the hardware foundations of the ultra-edge through strategic investments in neuromorphic computing and RRAM memory technology. dorsaVi's focus is on three major markets:

- **Ultra-Edge Intelligence:** dorsaVi's sensor platforms are designed to process and act on data locally, embedding AI-driven inference directly at the point of capture. By investing in neuromorphic computing and RRAM memory technology, dorsaVi enables real-time decision-making without round-tripping to the cloud, delivering lower latency, lower power consumption, and reliable operation in latency- and connectivity-constrained environments across industrial, clinical, and autonomous systems applications.

- Workplace: dorsaVi enables employers to assess risk of injury for employees as well as test the effectiveness of proposed changes to OHS workplace design, equipment or methods based on objective evidence. dorsaVi works either directly with major corporations, or through an insurance company's customer base with the aim of reducing workplace compensation and claims. dorsaVi has been used by major corporations including London Underground, Vinci Construction, Crown Resorts, Caterpillar (US), Boeing, Monash Health, Coles, Woolworths, Toll, Toyota, Orora, Mineral Resources and BHP.
- Clinical: dorsaVi is transforming the management of patients with its clinical solutions (ViMove+) which provide objective assessment, monitoring outside the clinic and immediate biofeedback. The clinical market is broken down into physical therapy (physiotherapists), hospital in the home and elite sports. Hospital in the home refers to the remote management of patients by clinicians outside of physical therapy (i.e. for orthopaedic conditions). Elite sports refer to the management and optimisation of athletes through objective evidence for decisions on return to play, measurement of biomechanics and immediate biofeedback to enable peak performance.

Further information is available at www.dorsavi.com