

Advanced Human Imaging Signs Binding Term Sheet with South Africa based Vertica Health

Highlights

- **Vertica Health’s proprietary evidence-based Software and platform will integrate the AHI MultiScan SDKs.**
- **The combined offering will identify early indications of chronic disease risk including metabolic syndrome.**
- **Vertica work with private payors in South Africa spanning millions of lives.**
- **Vertica has developed a unique data set that extracts a multitude of risks, previously only available through traditional medical service providers.**

Advanced Human Imaging Limited (ASX: “AHI”) (NASDAQ: “AHI”) is pleased to update shareholders of further expansion of its partnerships into South Africa after signing a Binding Term Sheet (“BTS”) with digital health provider Vertica Health (PTY) Ltd (“**Vertica**”).

Vertica is a digital health company focusing on building innovative health risk solutions for downstream customers. The team is a highly specialised and experienced group of scientists, medical and engineering talent with an extensive network of equally skilled partners. Vertica has targeted Insurance and Occupational Safety markets, and in the last six months, Vertica has commenced working with both retail insurers, medical aids, global re-insurers, and the mining industry towards building out last-mile applications harnessing the Vertica capabilities and IP. Vertica is in advanced stages with a number of these organisations to prototype and market product designs with potential last-mile product launches during the second half of 2022 and into 2023. As part of the solution suite, Vertica is planning to conclude the integration of the AHI CompleteScan SDK by early Q2 2022.

Vertica has three exciting product pieces that can be used in of many market solutions.

The first product piece relates to fatigue. In this product, Vertica leveraged a range of technologies and peer-reviewed science to enable the use of night-time heart rate and accelerometer data to predict subjective sleepiness (validated against globally recognized Karolinska Sleepiness Scale data) with a high prediction accuracy while retaining the ability to predict objective performance deficits (validated against psychomotor vigilance test data) with high accuracy. The biomathematical model built into the product is able to predict the neurobehavioral deficits during sleep/wake or work/rest schedules. The model was trained and validated using sleep deprivation, sleep restriction, simulated night work, napping and recovery sleep data.

In safety-sensitive operations such as aviation, it is a commonplace to use self-ratings of sleepiness as part of fatigue risk management. However, the differences in temporal dynamics of subjective and objective measures of impairment lead to a significant risk evaluation sensitivity gap. The Vertica product leverages night-time heart rate and accelerometer data, providing a quantitative way to bridge this previously unrecognised risk gap.

Subsequent iterations of this product could leverage smartphone-based sleep-wake data to deliver the same quantitative output if market the market desires such a solution.

The second product piece relates to health risk management. In this product, Vertica leveraged a range of smartphone-based heart rate and heart rate variability measurements along with the AHI BodyScan and FaceScan to yield several measurement distributions related to metabolic syndrome, cardiovascular and metabolic disease, depression and generalised anxiety disorder.

By using a multitude of luminary peer-reviewed papers related to common blood biomarkers, blood pressure, fitness, anthropometry, insulin resistance and visceral fat, Vertica developed a risk model that predicts total cholesterol, HDL-c cholesterol, LDL-c cholesterol, triglycerides, and C-reactive protein. In addition, Vertica can estimate non-exercise derived cardiorespiratory fitness, visceral adiposity index, lipid accumulation product, ten year % risk of cardiovascular disease mortality, brachial-ankle pulse wave velocity (baPWV) and a likely number of metabolic syndrome components based on baPWV.

The third product piece relates to orthopaedic recovery. In this product, Vertica leveraged a range of smartphone-based measurements to enable tracking of the individual's recovery journey after orthopaedic surgery.

One of the smartphone-based measurements leverages the accelerometer and gyroscope of the smartphone to measure the flexion and extension angle of a joint (such as a knee after an orthopaedic procedure). The Vertica team also automated a 2-minute walking distance test to further assess mobility. These mobility measures and product pieces from our health risk assessment have been built into a comprehensive orthopaedic recovery solution and ensure timely intervention if acute post-recovery events occur, such as sepsis. This will be further expanded with AHI once the AHI Musculoskeletal Assessment (MSK) tool is developed in late 2022.

Dylan Garnett, Founder and Chief Executive Officer of Vertica Health, said:

“We have been working with Vlado and the AHI team since late 2020 and have taken the time needed to develop our solution in readiness for the adoption and integration of the AHI multiple scan solutions. Furthermore, we tested the AHI solution and data convergence capabilities, and we are now in a position to move forward commercially with the integration.

I am extremely excited to be working with AHI and to integrate their solution into the Vertica platform application. Our combined solutions will provide data sets never seen before throughout the industry. I believe this along with the Vertica required actions outputs will see the product in high demand with its easy to use and low friction points for consumers.”

Vlado Bosanac, Chief Executive Officer of Advanced Human Imaging, said:

“Dylan and his team have a very different approach to personalized care. The science behind their platform is well documented and derives an infinite amount of data driven communications. The merging of our technologies has proven to be a very attractive proposition with the Vertica clients which are both private and public payors, spanning many millions of lives across South Africa.

The multifaceted approach Vertica takes to numerous health risk assessments across sleep, mobility and chronic disease is well documented and cohesive with the market AHI looks to work in around the globe.

I look forward to the product going live in South Africa over the course of Q2 2022.”

About Vertica Health (PTY) Ltd

Vertica Health specializes in developing client facing connected health solutions that embrace scientific and clinical expertise along with best-in-class technologies from across the globe. Vertica's objective is to assist both their partners and consumers enhance patient outcomes through self-monitoring using the convenience of mobile phone-based technologies in a single unified application.

For more information on Vertica Health please visit: <https://www.verticahealth.com/>

*This announcement has been approved by the board of Advanced Human Imaging Limited.

Financial Impact

AHI does not expect any immediate financial return as a result of entering into this binding agreement. A financial return will be more readily identifiable once formal agreements have been concluded and upon the commercial release of the integrated application (launch date to be advised).

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About Advanced Human Imaging:

AHI has developed and patented a proprietary dimensioning technology that enables its users to check, track, and assess their dimensions using only a smartphone both privately and accurately.

Our goal is to assist our partners by empowering their consumers with this capability. This in return gives our partners the ability to assess, assist, and communicate outcomes with their consumers when navigating day to day life.

Whether this is a personal journey to better health, understanding the risk associated with their physical condition, tracking the changes they are experiencing through training, dieting, or under medical regimes, or simply wanting to be correctly sized for a garment when shopping online. The AHI technology delivers this seamlessly, privately, and cost-effectively in only a few minutes.

Our partner benefits from our software as a service pricing solution, that reduces with scale. Integration is made easy with the AHI modular system, based on multiple software development kits (SDKs), allowing a partner to select the functions, measurements, and displays to suit their individual needs.

AHI has developed this capability by leveraging the power of Computer Vision, Machine Learning, and patented algorithms, to process these images on secure, enterprise-level infrastructure, delivering an end-to-end experience that is unrivalled in the industry. AHI simplifies the collection of measurements and removes the human error present in traditional methods.

For more information please visit: www.advancedhumanimaging.com/

* Integration of the AHI MultiScan SDKs is subject to Vertica Health concluding necessary technical integration undertakings. AHI will provide all technical support and advice to assist Vertica Health in reaching the target release timing but cannot control unknown delays in the delivery undertakings by its partners.