

Smartphone Biometric Health Assessment

JANUARY 2024





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Biometric health screening using just a smartphone

no health professional or additional equipment required, not even a wearable.



Provide health monitoring access to every smartphone user globally.



Ubiquitous health monitoring



Executive summary

Advanced Health Intelligence (ASX–NASDAQ:AHI) Is a global digital health solution





Corporate overview

AHI sells its dHaaS (digital health-as-a-service) technology **to healthcare**, **insurance and government** customer segments around the world in a business-to-business model (**B-to-B**).

- AHI completed two acquisitions in 2022, expanding its capabilities to offer mass population health monitoring using only a user's smartphone.
- AHI holds patents in Australia, USA, Japan, Korea, Singapore, New Zealand,
 China and Canada and expects to add to the patent portfolio.
- AHI screens for health risk stratification using only a smartphone by capturing biometric data, including vital signs, body composition, dimension, and indicative blood markers. In addition, AHI offers DermaScan which covers 588 skin conditions across 133 categories.
- AHI enables its partners to estimate **41 biometrics across 5 health categories** in order to triage their users into directionalized care.

| Issuer | Advanced Health Intelligence Ltd. |
|--|--|
| Exchange | Australian Securities Exchange (ASX), Nasdaq Capital Market (NASDAQ) |
| Shares on issue As at 19 Jan 2024 | 241,428,086 including ADR cover |
| NASDAQ ADR ADR Ratio 28:1, As at 19th Jan 2024 | 1,940,773 |
| Employee headcount | 34 across Australia, Singapore, USA, Canada, South Africa, Netherlands |
| Current partners addressable audience | > 250 million addressable users across AHI's current partners |
| Intellectual property | 24 patents, across Australia, USA, Japan, Korea, Singapore, New Zealand, China And Canada |



120 days of momentum

5 January 2024:

Bearn Signs 3 New Partners Further Boosting AHI Shared Reven

28 December 2023:

<u>AHI Secures \$2.27 million in R & D Tax Incentive</u> Scheme

6 December 2023:

<u>AHI Completes Formal Agreements with Pharmak</u> Direct

30 November 2023:

AHI to Launch Medically Approved Mobile Phone-Based AF Asses

3 November 2023:

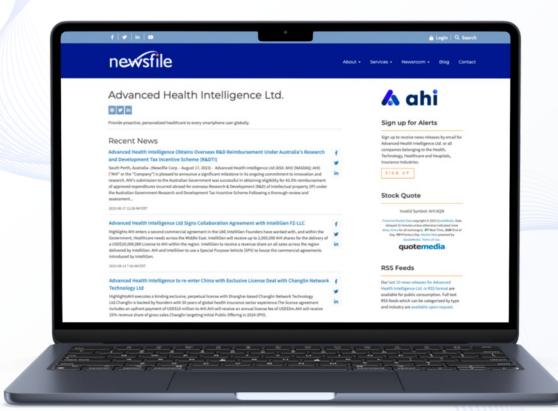
<u>AHI Signs Binding Term Sheet with Vietnam Based</u> OneClinic

21 September 2023:

AHI Signs LOI to Develop & Deploy a Digital Underwriting Solution

12 September 2023:

AHI Signs Collaboration Agreement with Abu Dhabi based Bin Farhood Group















The realities of the rising costs in healthcare

Global healthcare expenditure will reach 10% of GDP by 2040

The rising costs of healthcare have become a global challenge and a major reality for both developed and developing countries. According to the World Health Organization (WHO), the global healthcare expenditure is projected to reach 10% of the Gross Domestic Product (GDP) by the year 2040⁴.

By streamlining health assessment and triage into a smartphone experience, AHI offers pathways into improving population health literacy and empowering individuals to take better control of their health.



Sources

- 1. How many smartphones are in the world?, https://bankmycell.com/
- 2.Noncommunicable diseases, https://www.who.int/news-room/fact-sheets/detail/noncommunicable-diseases/
- 3. Facts about Hypertension in the United States, https://cdc.gov
- 4.Global spending on health: Weathering the storm https://www.who.int/publications/i/item/9789240017788



Trends in digital health

Healthcare is increasingly powered by Al

Major tech vendors continuously compete to upgrade their AI platforms with regular enhancements, as projections show the global healthcare AI market will reach nearly 188 billion U.S. dollars by 2030¹

Forbes



Med-PaLM 2 reached **86.5% accuracy** on the MedQA medical exam benchmark in research in line with a medical expert. The general pass mark is $\sim 60\%^2$



FDA Clearance Granted for First Al-Powered Medical Device to Detect All Three Common Skin Cancers (Melanoma, Basal Cell Carcinoma and Squamous Cell Carcinoma)³

ources

- 1. https://www.forbes.com/sites/davidchou/2023/12/17/google-launches-a-healthcare-focused-llm/?sh=4c37ca7d729c
- https://sites.research.google/med-palm/
- 3. https://www.dermasensor.com/fda-clearance-granted-for-first-ai-powered-medical-device-to-detect-all-three-common-skin-cancers-melanoma-basal-cell-carcinoma-and-squamous-cell-carcinoma/



Trends in digital health

More prevalence means more access

62% of smartphone users use their phone for mHealth.

A more common smartphone activity than online banking (57%), job searches (42%)^{1,2}.

< 6% of the world's adults use a wearable².

90% of the world's adults use a smartphone².







Sources:

¹https://www.sciencedirect.com/science/article/abs/pii/S1934148217303829
²https://mobius.md/2021/10/25/11-mobile-healthstatistics/#:~:text=Most%20smartphone%20users%20have%20used,5.
²https://www.statista.com/forecasts/1143723/smartphone-users-in-the-world

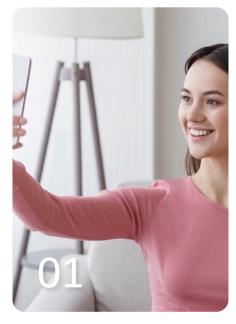


Realising digital transformation in healthcare

Biometric health assessment for global populations

Our aim is to revolutionize healthcare with our proprietary technology. This scalable technology allows the convenient and cost-effective distribution of health assessments to derive real-time risk stratification and automate digital triage at population-scale with improved accuracy.

Our comprehensive suite of digital health solutions creates a cohesive ecosystem that supports healthcare success, addressing the Triple Aim.



Population health assessments and engagement

Provide scalable access and automation through smartphones to easily assess health vital signs without need for more devices or health professionals.







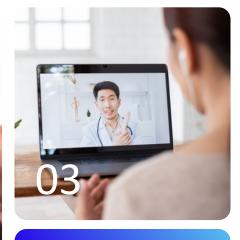
Targeted digital interventions

Personalized eHealth programs for targeted outcomes (i.e. the opposite of one-size-fits-all public health).



Very low cost per





Telehealth or physician consultation for condition management

Where clinically appropriate, referrals into partnerselected telehealth and physician clinics.



Varies by provider



Continuum of care SUB-CLINICAL Investor Presentation - January 2024

Our solutions

Proactive risk management in the palm of your hand

- All on the smartphone in less than 15 minutes no additional wearables or hardware needed.
- Remote and contactless biometric-derived health assessment for risk estimates associated with blood pressure, heart rate, HbA1c, cholesterol, (LDL and HDL), triglycerides and many more.
- Wide range of predicted health risks including obesity, heart attack risk, stroke risk, 10-year Framingham cardiovascular disease risk, diabetes and more.
- Seamless triage capability lower risk individuals can be referred into subclinical care options while moderate to higher risk can be referred into telehealth or higher care options.





4-scans in less than 15-minutes for a biometric health report

01. Cardiovascular and mental health

FaceScan uses facial blood flow analysis to deliver health vital estimates including blood pressure, heart rate, heart rate variability and breathing rate. This is promptly followed by the GAD7 and PHQ9, the clinical standard for anxiety and depression risk detection.

02. Health at rest

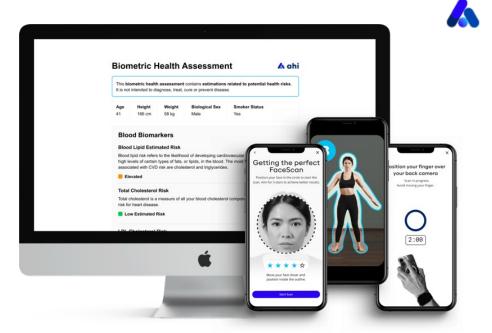
Health at rest focusses on the cardiovascular system and predicts resting heart rate risk. FingerScan employs Photoplethysmography (PPG) technology to detects volumetric changes in blood in peripheral circulation while at rest.

03. Body dimension and composition

BodyScan is built with proprietary computer vision and machine learning processing modules, which use over 1,000's data points to generate and guide the scaled contour. This returns estimates on body dimension and composition, such as body fat %, waist hip ratio, and waist height ratio, comparable to gold standard methods.

04. Post exertion recovery

A 3-minute step test promptly followed by a FingerScan PPG to review cardiovascular fitness. This evenly paced stepping exercise reviews the associated risks with heart rate recovery and heart disease.



What's included in the report?

Estimations include:

- **♡** Cardiorespiratory fitness
- 10-year cardiovascular disease risk
- Framingham 10-year hard cardiovascular disease risk
- Resting heart rate
- Systolic blood pressure
- Diastolic blood pressure
- Body fat percentage
- Waist circumference
- Hip circumference
- ❤ Waist-to-hip ratio

- Body mass index
- General anxiety
- Depression
- Arterial stiffness
- ♥ Visceral adiposity index
- Blood lipids

- Triglycerides
- C-reactive protein inflammation



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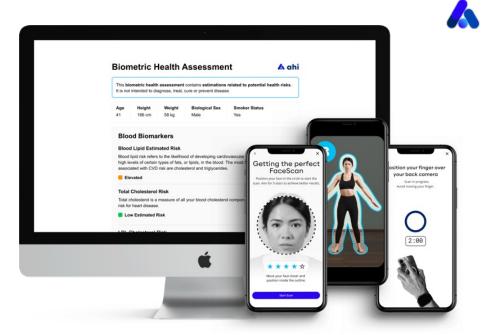
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- Blood sugar
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- ❤ Waist circumference
- ♥ Hip circumference
- ❤ Waist-to-hip ratio
- ♥ Waist-to-height ratio

- Body mass index
- General anxiety
- ♦ Depression
- Arterial stiffness
- ♥ Visceral adiposity index
- Blood lipids
- ♥ HDL cholesterol
- Triglycerides
- C-reactive protein inflammation

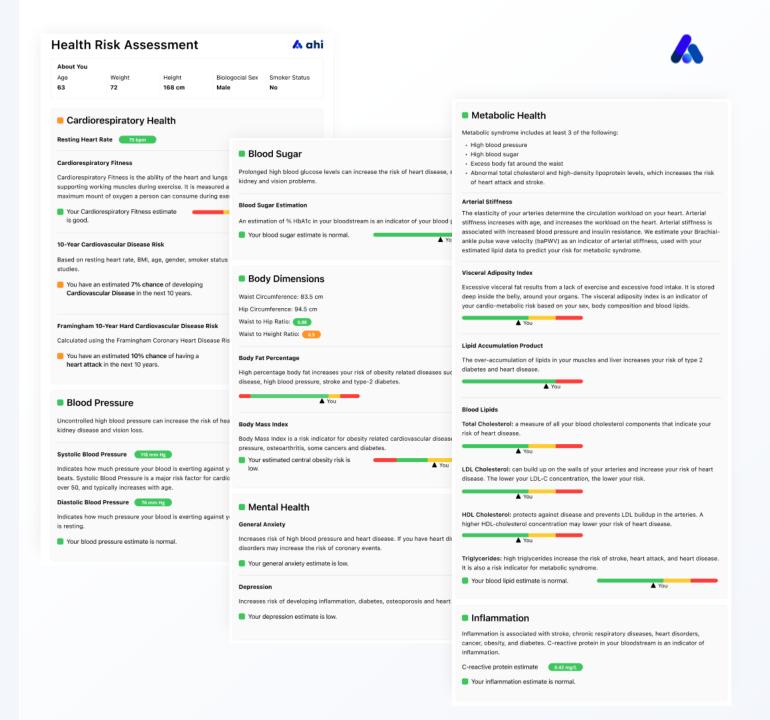
Biometric health assessment

Bloodless. Biometric. Ubiquitous.

- 61 outputs
- 41 biometrics
- 5 health categories

Self administered biometric health assessment from a user's own smartphone, no supporting equipment or health professional required

Helping scale GPs' health-monitoring for larger populations





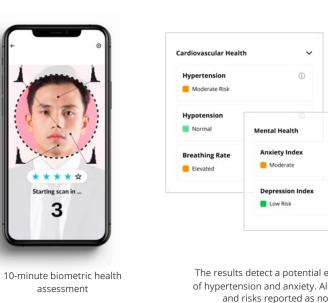
Biometric health assessment

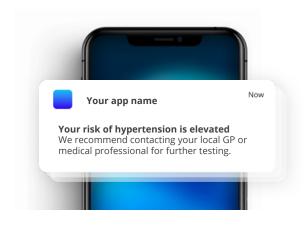
Triage into the right care pathways

Promote early-risk detection and encourage sooner actions.

Trigger a referral into higher-care, including telemedicine and telehealth based on a higherrisk indication from the biometric health assessment.

Meanwhile lower-risk triggers can be referred into subclinical care options for general health maintenance.



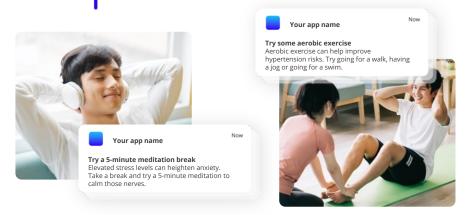


The results detect a potential elevated risk of hypertension and anxiety. All other vitals and risks reported as normal

Risk stratifications offer recommended care pathways.



A telehealth consult is recommended to address the hypertension predicted risk.



Meanwhile for lower risk or predicted health risks that can be monitored, you can connect to health programs or subclinical



Our solutions

Validation



AHI is rapidly closing the gap to blood-based point-of-care testing.

Early results from first pool of subjects comparing AHI's BHA accuracy to gold standard measurements.

- 99.7% accuracy resting heart rate to 3-lead ECG
- 95% accuracy Lipid Accumulation Product (LAP) to blood draw
- 90.5% accuracy waist-height ratio to biokineticist measure
- 85% accuracy Metabolic Syndrome (MetS) to blood draw
- 85% accuracy LDL Cholesterol to blood draw
- 83% accuracy Total Cholesterol to blood draw

Investor Presentation - January 2024 *Note: incomplete and unpublished analysis, first data capture batch of n=21.



Research-led, science backed and published globally

The research and studies associated with the efficacy of our technologies has been featured in luminary publications.



Agreement of anthropometric and body composition measures predicted from 2D smartphone images and body impedance scales with criterion methods



DXA reference values and anthropometric screening for visceral obesity in Western Australian adults.



Obesity and visceral fat in Indonesia; An unseen epidemic? A study using iDXA and surrogate anthropometric measures.



Smartphone derived body composition and anthropometry for tracking weight loss



Artificial Intelligence in the Evaluation of Telemedicine Dermatology Patients



Longitudinal concordance of body composition and anthropometric assessment by a novel smartphone application across a 12-week self-managed weight loss intervention



The Hidden Public Health Problem of Inadequate Sleep: Deploying Digital Mobile Technology to Improve Employee Sleep Hygiene in Asia



High Impact Employee Stress Reduction and Wellness Promotion Delivered via Digital Mobile Technology in the Construction and Aviation Industries



No retrenchment from employee empowerment Employer wellness imperatives and opportunities emerging from the COVID-19 pandemic.

Journal of Ecophysiology and Occupational Health

Employee Wellness in a Changing Climate: Environmental Heat Stress Driving Need for Targeted Health Promotion and Risk Reduction



Contextual wellness in the age of COVID-19: Managing disproportionate pandemic anxiety and stress in Australia, Singapore and other nations achieving disease control success.

IEEE Transactions on Medical Imaging

Superiority of Artificial Intelligence in the Diagnostic Performance of Malignant Melanoma Compared to Dermatologists and Primary Care Providers



18

New solutions

Atrial Fibrillation SaMD to launch Q2-2024









AHI plans to release Software-as-a-Medical-Device (SaMD) **Atrial Fibrillation scan** as part of its Biometric health assessment (BHA) from Q2-2024, as well as the Atrial Fibrillation scan a standalone service.

The PPG fingerscan is a function of phase 2 and phase 4 of AHI's BHA and will soon offer medically approved atrial-fibrillation detection.

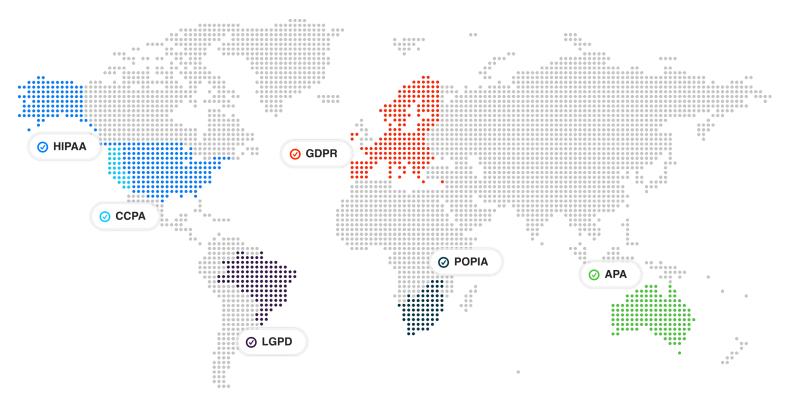
The technology has medical approval in **Australia**, **USA**, Singapore, EU, UK, UAE and Saudi Arabia for near clinical.

The global prevalence of atrial fibrillation (AF) is approximately 60 million cases, of which up to 40% AF patients are asymptomatic.



Global, private and secure.

We collaborate with our partners to establish a shared responsibility model, to ensure our digital health solutions comply with applicable regulations in those territories including HIPAA*, GDPR and more. This model ensures that sensitive health information is effectively protected at all touch points. Furthermore, Data Processing Agreements outlining the requirements and obligations we undertake are entered into with partners to ensure global privacy standards are met and maintained. Our technology meets OWASP standards and is consistently reviewed by independent security experts.



- No images or videos leave the device
- Only encrypted data-signals are sent to the cloud for processing and analysis
- Users choose who to share results with and when

^{*} HIPAA compliance applies to FaceScan and BodyScan data processing.



Simple and scalable for global populations

AHI Biometric Scans

SDK Integration

Scalable Care



Integrated Care Solution

Using AHI's Integrated Enterprise Software Platform

Engagement layer

Single digital interface for Payor and Patient.

Data and analytics

Rich patient database to drive burden of disease progression and health predictions.

Software Solutions

Technology-based on international standards of interoperability with health databases and EHR.

Reporting

Payors population based on epidemiological predictive surveillance, risk dashboards and spend patterns.

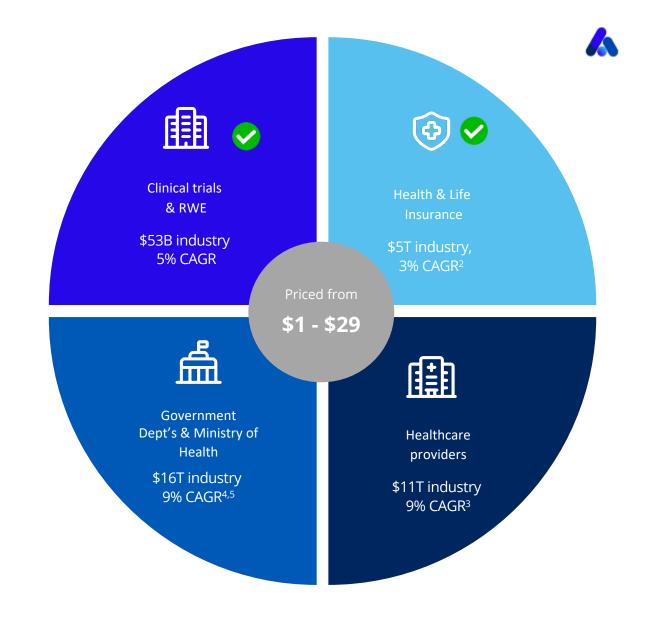


Our positioning

Customer segments & ROI

Payor ROI - why customers buy dHaaS:

- Reduced cost and risk (through early detection and intervention opportunities)
- 2. Improved health and care outcomes
- **3. Process automation** (HR, health care providers)
- **4. Data** better understand customer needs, improving sales of core goods/services better



Sources

- https://www.globenewswire.com/en/newsrelease/2022/04/11/2420173/0/en/Worldwide-3-Trillion-Health-Insurance-Market-Size-is-Expected-to-Grow-at-a-CAGR-of-over-4-4-During-2022-2028-Vantage-Market-Research html
- https://www.mordorintelligence.com/industry-reports/global-life-and-non-life-insurance-market--growth-trends-and-forecast-2020---2025
- 3. https://www.businesswire.com/news/home/20190625005862/en/The-11.9-Trillion-Global-Healthcare-Market-Key-Opportunities-Strategies-2014-2022---ResearchAndMarkets.com
- 4. https://stats.oecd.org/Index.aspx?DataSetCode=SHA
- 5. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4695957/

Engaged customers

AHI has the below current partners who represent a total addressable audience of over 250 million people.

AHI is working with each of these partners to complete technical integration and launch to these audiences in Q1 and Q2-2024. Every engaged user attracts AHI license fees.























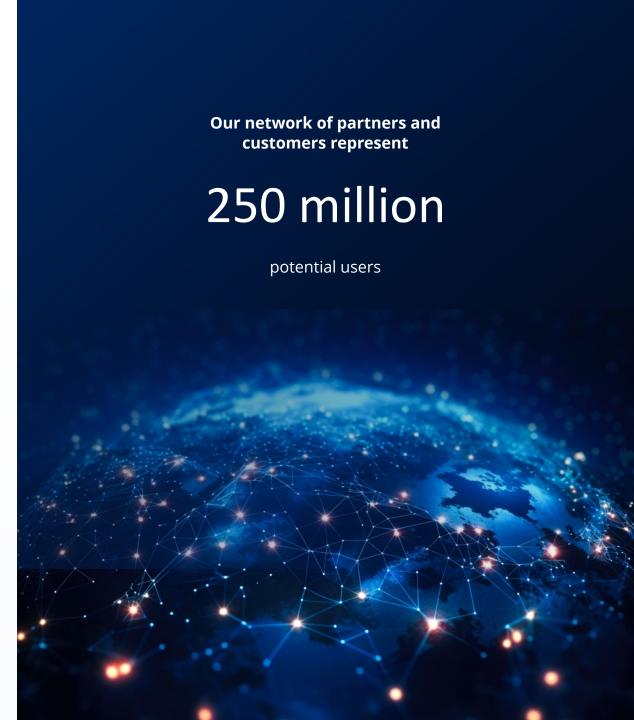














Business Targets in H1-2024

LAUNCH AT LEAST 4 COMMERCIAL PARTNERS

Bearn - USA

OneClinic - Vietnam

Pharmak - UAE

Upvio - USA, Asia

CLOSE AT LEAST 2 MAJOR PIPELINE PROSPECTS

China

Vietnam

South East Asia

Middle East

SaMD CERTIFICATION

Clinical or near-clinical use

AHI are in discussions with strategic partners and investors, we welcome your conversation.

Thank-you



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Vlado Bosanac
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For more information on how Advanced Health Intelligence how our technologies can help you, find out more at https://ahi.tech



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