

Market Opportunity

A multi-decade tailwind across global health.

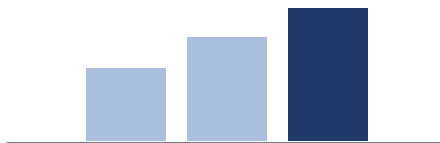
\$610B

Global longevity market



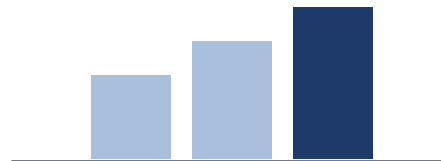
2.1B

Seniors worldwide by 2050



80%

Of chronic disease is preventable



The Problem

Longevity care today fails on every dimension that matters.

01 Fragmented

Tests and providers don't talk to each other.

02 Reactive

Focused on disease, not the years before it.

03 Generic

One-size-fits-all care for a deeply individual process.

04 Episodic

Annual snapshots miss the daily signal.

05 Boutique

Concierge-only — impossible to scale.



Our Vision

A comprehensive, AI-powered platform that continuously monitors biological ageing, Cancer, CVD and Dementia through breath biomarkers, digital health signals, and cognitive assessments — enabling timely interventions and measurable outcomes.



Breath Biomarkers

FTIR spectroscopy of breath droplets



Digital Monitoring

Sleep, activity & lifestyle tracking



AI Analysis

Predictive models for ageing trajectories



Cognitive Testing

Monthly brain health assessments



The EXHLS Solution

A multi-modal ageing intelligence platform — one signal stack, one trajectory.

01 **Breath VOC biomarkers**

Molecular fingerprint from a 2-minute sample.

02 **Digital health signals**

Sleep, HRV, activity — continuously.

03 **AI predictive models**

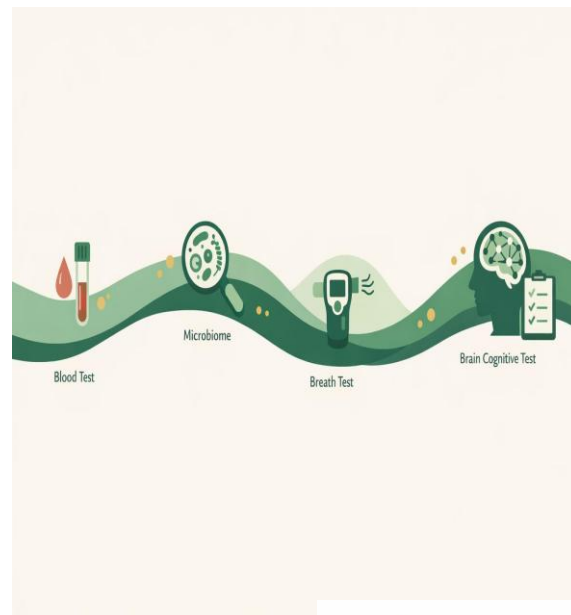
Biological age, CVD, Cancer and Dementia risks and trajectory in one score.

04 **Cognitive testing**

Monthly tracking of brain health.

05 **Blood, microbiome & DNA**

The deep baseline that anchors it all.



The Science of Breath Biomarkers

Exhaled breath contains over 1,000 volatile organic compounds (VOCs) that reflect metabolic processes, oxidative stress, and cellular ageing.

- **Metabolic Markers**

Acetone, isoprene, and pentane reflect metabolic efficiency — pre-diabetes alone adds **5.2 years** to biological age

- **Inflammatory Signals**

Nitric oxide and carbonyl compounds reveal low-grade inflammation, a key driver of age-related functional decline

- **Gut-Lung Axis**

Hydrogen and methane levels correlate with gut microbiota balance, a key factor in the anti-ageing process

- **Ageing Signatures**

Specific VOC profiles change predictably with biological ageing, independent of chronological age

Phase 1: Initial Assessment

Establishing the comprehensive baseline



Blood Work Panel

- Complete metabolic panel incl: glucose, Hormone levels (cortisol, DHEA, IGF-1), Inflammatory markers (CRP, IL-6, IL-1ra). Toxins etc.



Medical History

- Current medications & conditions
- Family history risk factors
- Lifestyle habits (BMI, smoking, alcohol)
- Depression screening (CES-D scale)
- Functional capacity evaluation



Microbiome Test (License)

- Gut microbiome diversity & ageing index
- Key bacteria strain ratios
- Short-chain fatty acid levels
- Gut permeability markers
- Pathogen screening

Phase 1: Initial Assessment

Establishing the comprehensive baseline



Breath Test

- Metabolic markers (pre-diabetes), Inflammatory markers, gut lung axis, general breath data to be assessed over time.



DNA (License)

- Cognitive & Mental Health
- Fitness & Metabolism
- Cardiovascular Health
- Nutrient Pathways & Methylation
- Detox & Inflammation, and 30+ other areas



Cancer blood test (License)

- Neoplasia / Abnormal clonal proliferation
- Benign / malignant
- Together these two let us know whether cancer is absent / present / imminent.
- Secondly, The level of the HrC lets us know the stage of cancer.
- Thirdly, organ level gene mutations together with HrC lets us know the site of the cancer.

Phase 2: Personalized Lifestyle Programs

AI-generated plans tailored to each patient's baseline data



Nutrition

Anti-inflammatory diet plans targeting gut health and metabolic markers — obesity adds up to **2.4 years** to biological age



Exercise

Tailored physical activity to improve BMI and reduce smoking-related ageing (up to **1.15 years** added per risk factor)



Sleep Optimization

Optimizing 7-8 hour sleep cycles — research shows healthy sleep reduces biological age by up to **0.25 years**



Stress Management

Mindfulness and social engagement programs — depression adds up to **1.28 years**, while social interaction supports healthy ageing

Phase 3: Daily Digital Monitoring (wearables)

Continuous health tracking through wearable devices and patient-reported outcomes

Sleep Quality

Duration, REM/deep cycles, sleep latency

Heart Rate Variability

Autonomic nervous system balance

Physical Activity

Steps, active minutes, exercise intensity

Stress Levels

HRV-derived stress index, mood logging

Nutrition Adherence

Meal logging, dietary compliance score



Real-Time Insights

Daily data streams feed into our AI engine, enabling early detection of negative trends before they become clinical issues.

Alert threshold reached?
Physician notified within 24 hours

Phase 4: Monthly Breath Test

Objective measurement of biological ageing progress

What We Measure Each Month

- ✓ VOC profile changes vs. baseline
- ✓ Oxidative stress marker trends
- ✓ Inflammatory compound levels
- ✓ Metabolic efficiency indicators
- ✓ Microbiome-breath axis correlation

Plan Efficacy

Are biomarkers moving in the right direction?

Patient Commitment

Does the data match reported adherence?

Intervention Needed?

AI flags cases requiring physician review

Phase 5: Monthly Cognitive Assessment

Tracking brain health alongside biological markers



Why Cognitive Testing Matters

Research shows biological ageing can accelerate cognitive decline by up to **6 years**. Our monthly assessment detects early warning signals — often years before clinical symptoms appear.

The test takes under 10 minutes and can be completed on a tablet in the clinic waiting room.

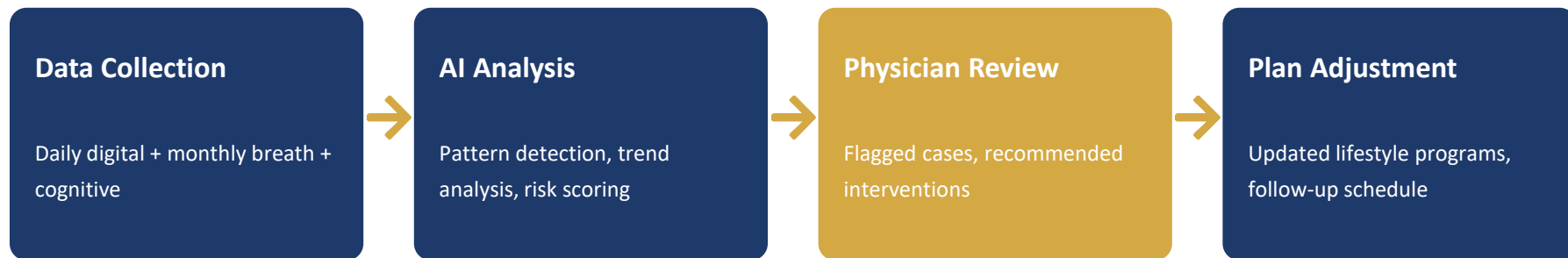
Cognitive data combined with breath biomarkers creates a uniquely powerful ageing prediction model.

Assessment Domains

- **Processing Speed**
Reaction time tasks
- **Working Memory**
N-back test variants
- **Executive Function**
Task switching & inhibition
- **Verbal Fluency**
Word generation challenges
- **Spatial Reasoning**
Pattern recognition tests

Intervention & Compliance Dashboard

Closing the loop between data, action, and outcomes



Compliance Verification



Breath biomarkers validate self-reported lifestyle adherence



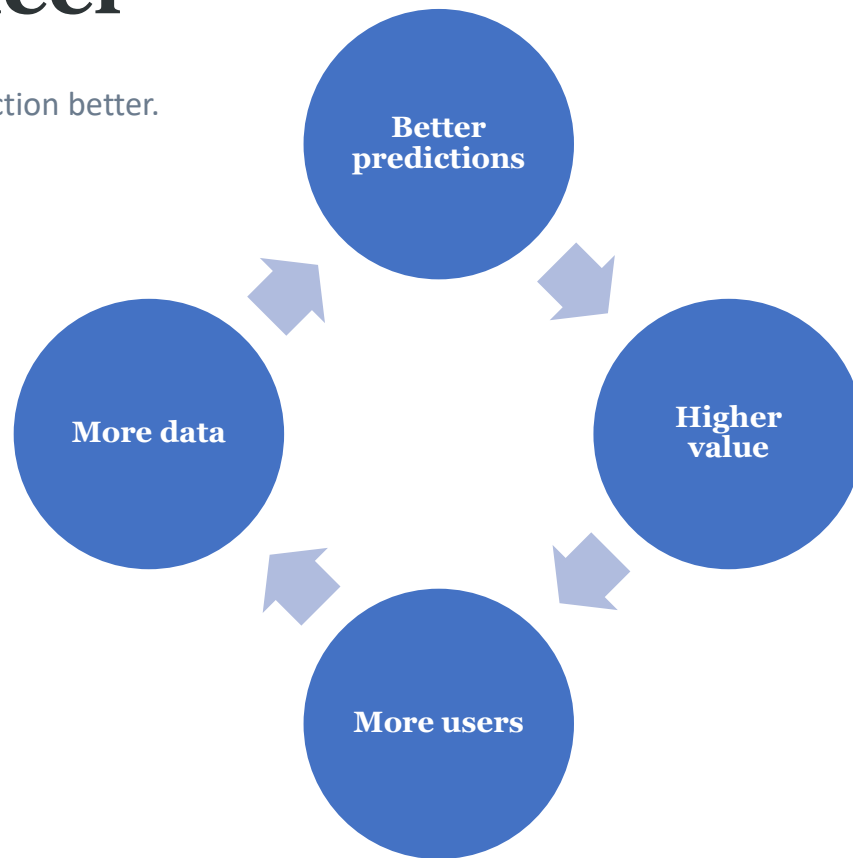
Digital biomarker consistency score tracks daily engagement



AI detects discrepancies between reported and measured data

Data Flywheel

Every user makes the next prediction better.



Our Customers

Private longevity clinics are our beachhead buyer — high-margin, fast-moving, hungry for differentiation. An [estimated 800 longevity clinics](#) now operate across the U.S.

01

Who they are

Premium clinics, concierge practices, and longevity centers across APAC and Europe.

02

Why they buy

Differentiated offering, recurring monthly revenue, and a halo of cutting-edge science.

03

End user

Affluent 40-80 year olds investing in healthspan — clinic members and self-pay patients.

04

Sales motion

Direct enterprise sales paired with medical advisory referrals and KOL endorsement.

05

Land and expand

Start with breath testing, expand into AI monitoring, DNA, and cognitive panels.

TARGET US PILOT PARTNERS

Synergy Life Centres

focuses on making longevity care more affordable

Next Health

has locations across the U.S. and internationally

Human Longevity, Inc.

operates locations in San Diego and San Francisco

Cleveland Clinic Executive Health

Prestigious academic medicine with top-tier diagnostic

ADAM & EVE Longevity Center

preventative medicine space focusing on metabolic health

Business Model

Per-patient subscription stacked with per-clinic onboarding revenue.

- 01 Initial assessment package**
\$3,000 per patient — wearables, DNA, cancer screen, microbiome, first intervention plan.
- 02 Monthly subscription**
\$180 per patient/month — breath analysis, AI management, monthly report.
- 03 Breath device sale**
\$50,000 per clinic location — one-time hardware sale at onboarding.
- 04 Platform installation**
\$20,000 per location — one-time setup and integration fee.
- 05 Per-clinic onboarding**
\$70,000 combined upfront per new clinic location (device + platform).
- 06 Per-patient first year**
\$5,160 patient revenue in year one (\$3,000 assessment + \$2,160 subscription).

Unit Economics

Illustrative steady-state targets per clinic-channel member.

ARPU

\$2,400

per member, per year

Monthly breath testing + AI monitoring + premium add-ons.

CAC

\$180

per member, fully loaded

Enterprise sale to clinic; clinic owns end-user acquisition.

GROSS MARGIN

65%

at scale, blended

Software-led margins; consumables and AI licensing drive expansion.

< 2 mo

CAC PAYBACK

15×

LTV / CAC

110%+

NET REVENUE RETENTION

Illustrative steady-state targets; actuals will vary by geography, clinic mix, and contract terms.

China Beachhead

The right first market for precision ageing.

- 01 Fastest-aging population**
Demographics compressed into a single decade.
- 02 High toxin & metabolic burden**
Environmental load drives demand for monitoring.
- 03 Private clinics seeking differentiation**
Ready buyers for a premium longevity stack.



Roadmap

From first pilot to category leadership.

Pilot



**Lab-grade
device**



**Handheld
device**



10+ clinics



Largest dataset

PHASE 2 — EXPANSION

Employer & insurer channel

Once clinic data validates outcomes, expand into corporate wellness contracts and insurer reimbursement — the longitudinal dataset becomes the underwriting moat for B2B distribution at scale.

Investment Ask

Seeking \$2M to accelerate the next 18 months.

01 Pilot execution

Launch and prove the clinical model.

02 AI scaling

Expand training data and model coverage.

03 Device manufacturing

Move from lab build to volume production.

04 Clinic expansion

Onboard 10+ partner sites.

05 IP protection

File and defend the core platform patents.

Competitive Landscape

Adjacent players own a single modality. EXHLS is the only multi-modal ageing intelligence stack — defensible across hardware, data, and AI.

KEY PLAYERS

01 **Breath diagnostics**

BOH, Breathomix — single-disease FAIMS/eNose. No ageing models, no longitudinal stack.

02 **Epigenetic age tests**

TruDiagnostic, Elysium, Tally, Generation Lab — single-modality methylation. Episodic, no real-time signal.

03 **Blood-test platforms**

Function (\$2.5B), InsideTracker — broad blood panels + AI. No breath VOC, no biological-age clock.

04 **Longevity clinics**

Neko (\$1.8B), Fountain Life — capital-heavy single-site model. No proprietary diagnostic IP.

05 **Wearables**

Oura, Whoop (\$10B) — behavior signal only. No molecular layer, no clinical claim.

How EXHLS Compares

Feature coverage vs. each category — the moat is the intersection.

Player / category	Breath VOC	Bio-Age AI	Continuous	Multi-modal	Recurring
EXHLS	✓	✓	✓	✓	✓
Breath diagnostics	✓	—	—	—	~
Epigenetic age tests	—	✓	—	—	~
Blood-test platforms	—	~	✓	✓	✓
Longevity clinics	—	~	—	~	✓
Wearables	—	—	✓	—	✓

Legend: ✓ full coverage ~ partial — none



The EXHLS Opportunity

A \$610B market, a defensible platform, and a clear path to scale

1. Market: \$610B longevity opportunity, 2.1B seniors by 2050
2. Technology: proprietary breath-FTIR, 100× sensitivity, multi-modal AI
3. Model: recurring revenue across testing, monitoring, devices, and AI licensing
4. Ask: \$2M to scale pilots, manufacturing, and IP over 18 months

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Value for Your Medical Group



New Revenue Stream

Premium longevity program with high patient lifetime value and recurring monthly revenue



Patient Retention

Ongoing monitoring creates deep engagement and reduces patient churn to competitors



Differentiation

Position your group as a leader in precision longevity medicine with cutting-edge technology



Better Outcomes

Data-driven interventions lead to measurable improvements in patient health metrics



Physician Efficiency

AI pre-screens data and prioritizes cases, reducing time spent on routine reviews



Scalable Model

Platform handles data collection and analysis, minimal additional staff required