



29 October 2024

BlinkLab presents this week at AusBioInvest, JMM Sydney Investor Lunch, and BioFuture in NYC

BlinkLab Limited (ASX:BB1) ("**BlinkLab**" or the "**Company**"), an innovative digital healthcare company developing smartphone-based AI powered sensory assessments to aid in the diagnosis of neurodevelopmental conditions including autism and ADHD, is pleased to announce presentations at the following conferences:

By the company's Chairman, Mr Brian Leedman who will be presenting this week at:

AusBioInvest – Australia's premier life sciences investment conference

Tuesday, 29 October 2024 – Park Hyatt, Melbourne

Link: [AusBioInvest Overview — AusBiotech Investment Programme](#)

JMM Sydney Investor Lunch

Wednesday, 30 October, 2024 – Sydney Opera House

Register here to watch a recording of the presentation: [JMM Group Sydney Lunch – Jane Morgan Management](#)

By the company's CEO, Dr. Henk-Jan Boele, who will be presenting this week at:

BioFuture - The Nexus for Innovators, Investors, and Changemakers to Rethink and Shape the Future of Healthcare

Tuesday, 29 October 2024 – Cure NYC

Ling: <https://biofuture.com/about-the-event/>

A copy of the latest company presentation is attached. This announcement has been approved by the Board of Directors.

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About BlinkLab Limited

BlinkLab, a company founded by neuroscientists at Princeton University, over the past several years has fully developed a smartphone based diagnostic platform for Autism, ADHD, Schizophrenia and other neurodevelopmental conditions. Our most advanced product is an Autism diagnostic test that leverages the power of smartphones, AI and Machine Learning to deliver screening tests specifically designed for children as young as 18 months old. This marks a significant advancement, considering traditional diagnoses typically occur around five years of age, often missing the crucial early window for effective intervention. BlinkLab is led by an experienced management team and directors with a proven track record in building companies and vast knowledge in digital healthcare, computer vision, AI and Machine Learning. Our Scientific Advisory Board consists of leading experts in the field of Autism and Brain Development allowing us to bridge most advanced technological innovations with groundbreaking scientific research.

blinklab

Early and accurate diagnosis
of autism and ADHD



Introducing a breakthrough AI-powered smartphone platform for neurological testing

ASX:BB1, BlinkLab Ltd, Level 4, 216 St Georges Terrace, Perth WA 6000

Disclaimer

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This presentation may include forward-looking statements. Forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of BlinkLab. Actual results or events may be materially different to those expressed or implied in this presentation. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements.

What is autism?

- **Neurodevelopmental conditional that affects how the brain processes sensory information.**
- **Autism impacts:**
 - Social development
 - Language development
 - Sensory processing
 - Behavior and interests

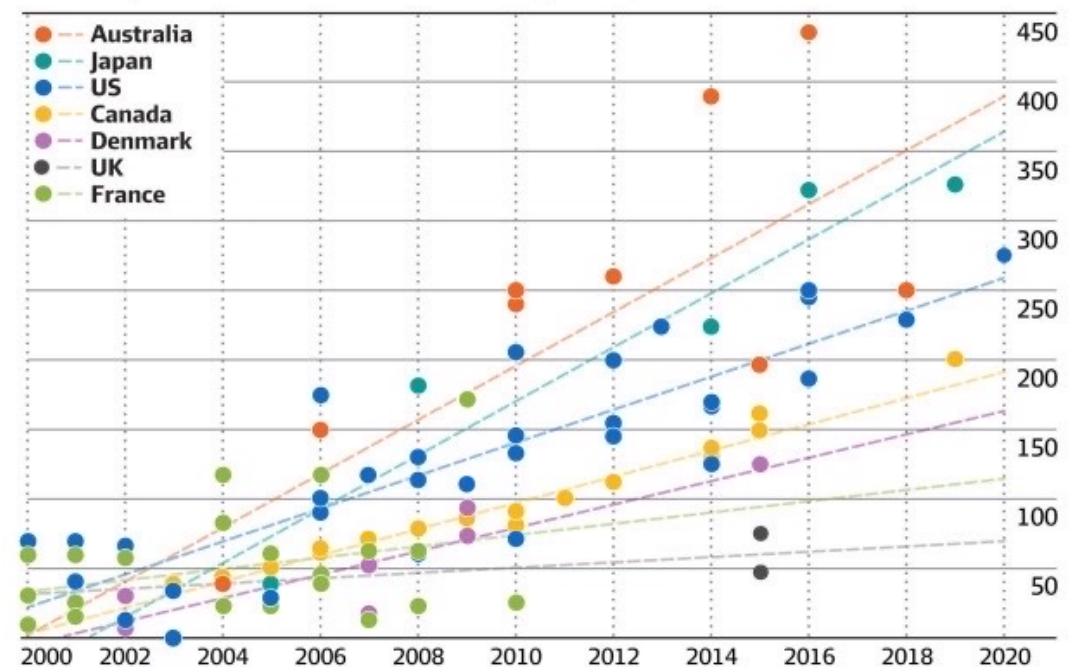


Autism is a \$700B market in 2024 in the US alone

"The economic burden is significant and alarming" ¹

- Autism prevalence has grown to 2-4% among children²
- Autism healthcare expenses are soaring³
 - Costs for an autism diagnostic evaluation: \$1,000 to \$5,000*
 - Costs of care are around \$60K annually during childhood³*
 - Lifetime cost for individual with ASD: \$3.6M³*
 - 35% of NDIS participants have autism accounting for \$6.7B⁴*
- No medical autism check available
 - Autism diagnostic evaluation is subjective*

Autism prevalence studies of children, per 10,000



SOURCE: MAATHU RANJAN

¹ Leigh and Du (2015), Forecasting the economic burden of autism in 2015 and 2025 in the US, Journal of Autism and Developmental Disorder

² Center for Disease and Control, World Health Organization

³ Cakir et al. (2020) The lifetime social cost of autism: 1990-2029, Research in Autism Spectrum Disorder

⁴ National Disability Insurance Scheme (NDIS)

Autism diagnosis is expensive, inaccurate, and often late

Parental observations

Concerns arise about child's behavior and development.



Autism screening

By primary care physician, who refers to specialist.



12-24
months
waitlist

Autism diagnostic evaluation

Formal diagnosis requires input from multiple disciplines, including psychiatry, psychology, audiology, occupational and physical therapists.

Process is complex, expensive and frequently delayed. Current diagnostic tools are subjective.



Diagnosis at age 5-6

Family frustrated by evaluation that took longer than 12 months.



Late intervention

Yielding poor clinical results and leading to high expenses later in life.



Current standard of care leads to poor clinical outcomes and high financial costs.

BlinkLab's digital solution accelerates path to diagnosis

Parental observations

Concerns arise about child's behavior and development.



BlinkLab screening

Using our accessible smartphone-based platform.



Diagnostic evaluation

Using biomarkers. Only necessary specialists are consulted.



Diagnosis at age 2-3

Initial diagnosis instantaneously, confirmed in 1-2 months by clinician.



Early and personalized intervention and accurate monitoring

Intervention starts early during brain development, yielding optimal clinical results and leading to significant reduction in costs (40-60%) later in life.



BlinkLab's smartphone app facilitates early diagnosis, reduces costs, and improves accuracy.

Our patented technology: neuroscience on a smartphone

Minuscule facial reflexes, evoked by our app, generate a digital biomarker for autism.



Evokes facial reflexes

By presenting visual and auditory stimuli during smartphone use.

Computer vision

Facial features are tracked on the smartphone and transferred to the **BlinkLab platform**.

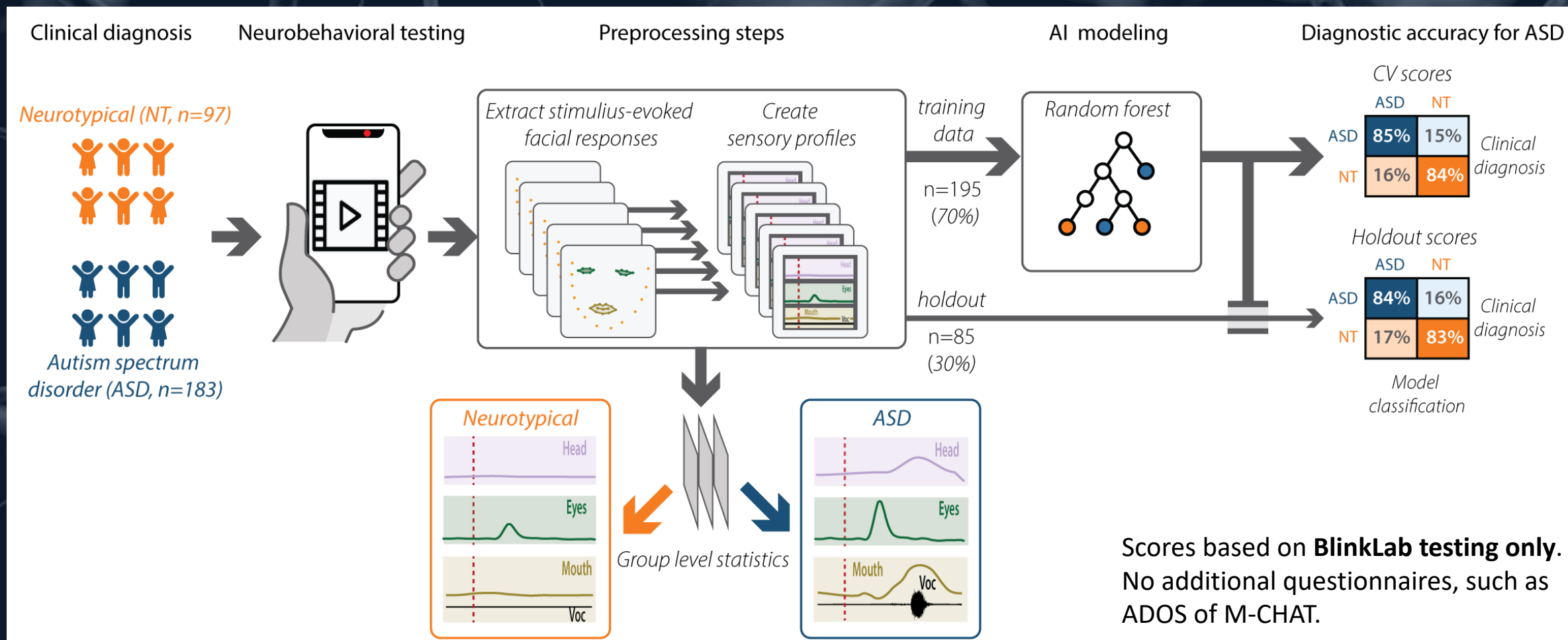
Biomarker detection

Biomarkers are detected in **real-time** and made available to the clinician.

Evaluates brain function

State-of-the art analysis methods and AI modelling to **map the functioning of brain regions involved in autism**.

Breakthrough data from large scale study on diagnostic accuracy of BlinkLab



Our AI technology detects autism and ADHD

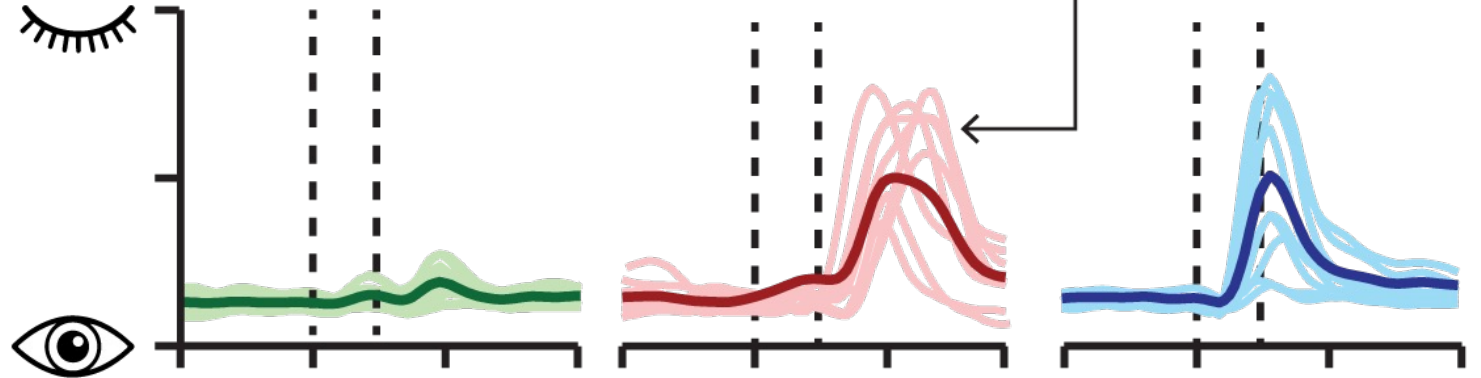


Download on the
App Store

Auditory cues
delivered with
BlinkLab app



Reflexive eye blinks
recorded with
BlinkLab app



Time (ms)

Control

Autism

ADHD

BlinkLab precisely measures sensory sensitivity in people with autism and ADHD.

BlinkLab App and Online Portal are fully developed

Validated in >8,000 subjects tested globally, including people with limited access to healthcare.

- **Remote testing**

Enables accessible and global diagnostics.

- **Scalable solution**

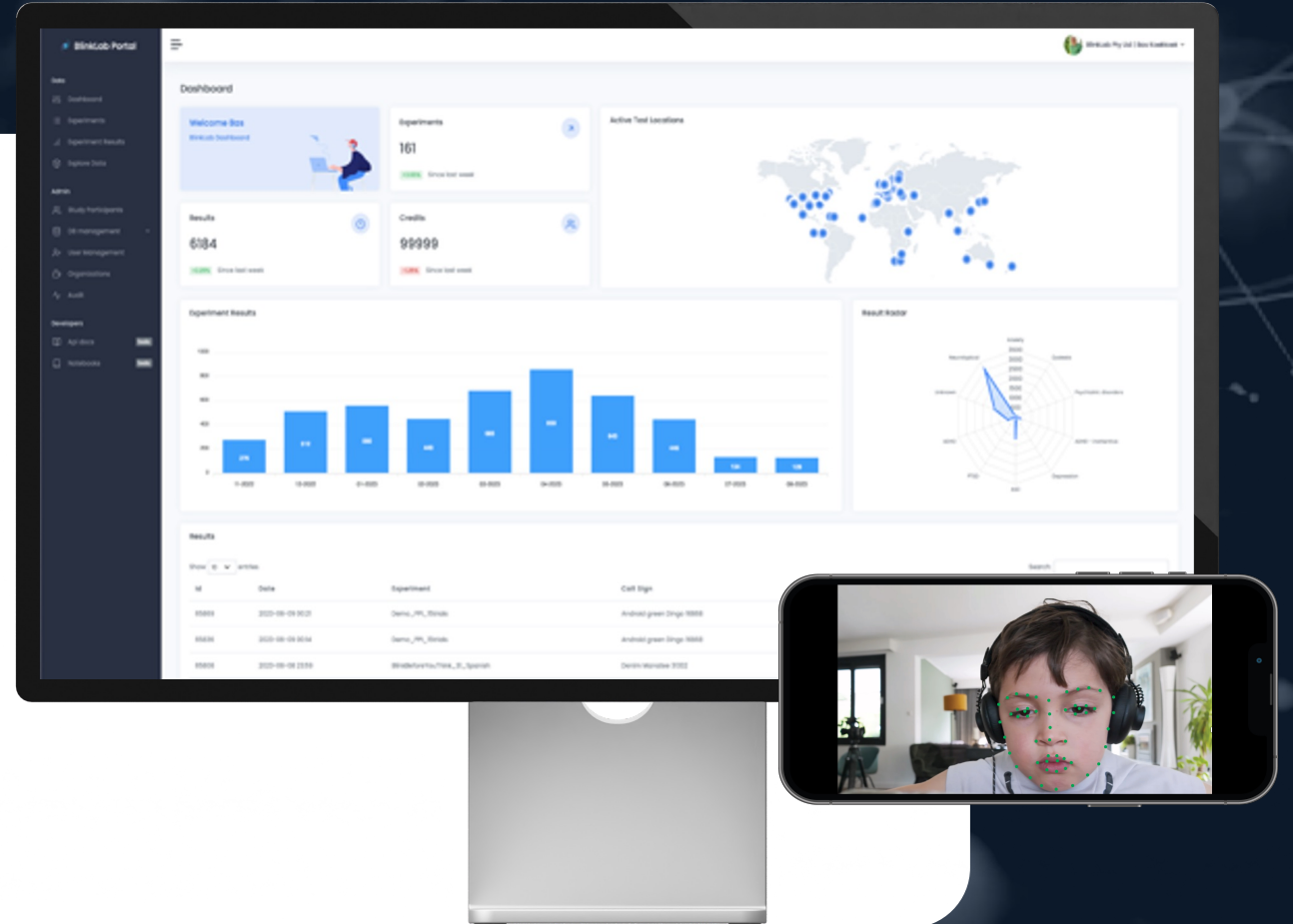
Easily adaptable for clinical and diverse research needs.

- **Real-time analysis**

Immediate insights in user tests and biomarker scores.













- **Rapid global adoption**

Academic and clinical institutes, special schools and, large healthcare providers around the globe already have started implementing BlinkLab.



BlinkLab is collaborating with world-leading institutions

Since our product launched in 2022, we have established global partnerships academic and clinical institutes.

2022	2023	2024	ongoing
 <p>Prof. Samuel S. -H. Wang (Princeton University)</p> <p><i>"The BlinkLab app is easy to operate, substantially reduces the costs of diagnosis, and produces reliable and reproducible results."</i></p>	Princeton University		Proof-of-concept of smartphone-based neurometric evaluations. 
	Mohammed V Foundations for solidarity		Multi-center autism study in Morocco on BlinkLab's diagnostic accuracy. 
	ESPOCH		Multi-center study in Ecuador on brain development, nutrition, and autism . 
		Scanner Consortium Europe	Large European consortium, awarded 5.3M euro's, on autism in women. 
		Turning Pointe Autism	Autism study in United States on BlinkLab's diagnostic accuracy. 
		Erasmus University	Large study on early detection of Alzheimer's and Frontotemporal Dementia . 
		Bates College	Objective biomarkers for Functional Neurological Disorders . 
		Columbia University	Effects of physical activity on Spinocerebellar Ataxia (SCA) . 
		Mental Care Group	Research and commercial partnership with the fifth largest provider of mental health care in EU. 
		Monash Univ.	Study on the pharmacology of human decision making and effects of ketamine . 
		INTER-PSY	Prospective study on diagnostic accuracy for autism in young children. 

BlinkLab outperforms FDA-approved digital peers

We are leaders in the rapidly growing space of digital diagnostics and therapeutics.

blinklab

cognoa

ETD
EarliTec Diagnostics Inc.



Sensitivity

85%

52%

71%



Specificity

84%

19%

81%



Smartphone-based

Yes

Yes

No



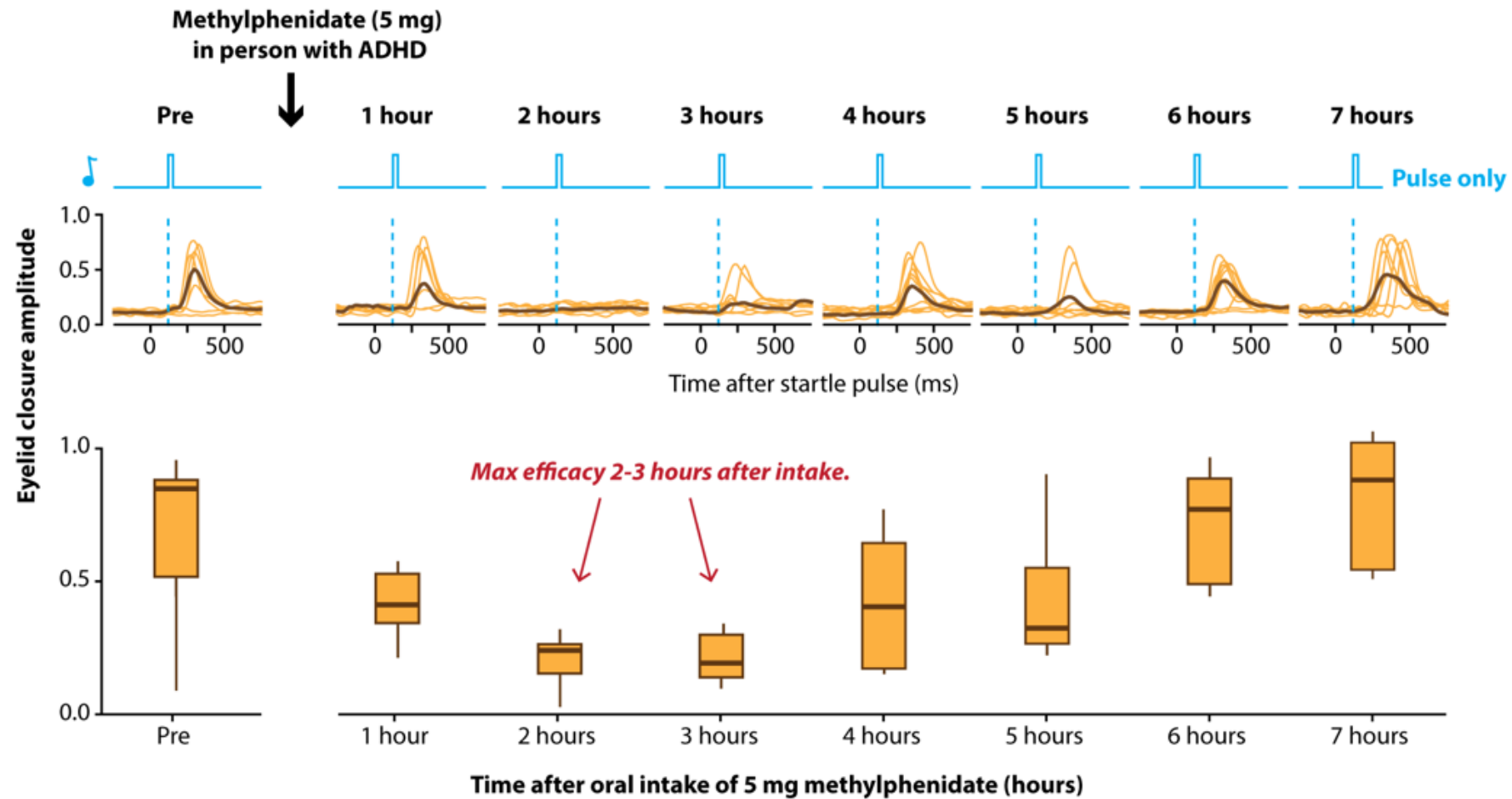
FDA approval

No - 510(k)

Yes - De Novo

Yes - 510(k)

First product to monitor the effect of therapy in real-time



Real-time drug monitoring offers a path to even larger recurring revenues via subscription-based models.

We are experts in science, tech and commercialization



Henk-Jan Boele, CEO

MD, PhD, Entrepreneur and neuroscientist at Erasmus MC and Princeton University

Fifteen years of experience in neurobehavioral testing with over 35 publications. Recipient of many prestigious awards. Team leader and inventor of BlinkLab.



**Anton Uvarov, COO
Executive director**

MBA, PhD, Biotechnology Analyst with Citibank

Cofounder of two biotechnology companies, developed therapeutics for neurodegenerative disorders. Both successfully IPO and publicly traded.



Bas Koekkoek, CSO

PhD, Assistant Professor of Neuroscience. Erasmus MC

Twenty-six years of experience in neurobehavioral testing with over 55 publications in IEEE and the field of neuroscience. An innovator in heart and soul. Cofounder of Neurasmus BV.



Peter Boele, CTO

MA, PhD candidate, Erasmus MC

Born to code, with over 20 years of experience in software development, both as developer as well as executive.



Our mission is to use neuroscience to improve the daily life of families with autism.

We are backed up by an expert advisory board

Company Chairman



Brian Leedman

Experienced Chairman and co-founder of five ASX listed healthcare companies including digital healthcare company ResApp Health, acquired by Pfizer for \$180M in 2022.



Company Director



Jane Morgan

Providing strategic investor and media relations services for over 16 years. Founder of JMM.



Company Director



Richard Hopkins

Experienced bio-pharmaceutical executive with over 20 years in corporate leadership roles with public biotechnology companies.



Scientific advisor



Prof. Samuel Wang

Professor of Neuroscience at Princeton University and author of 2 bestselling books.



Scientific advisor



Prof. Chris De Zeeuw

Professor of Neuroscience at Erasmus MC and vice-director of the NIN (Netherlands Institute of Neuroscience).



Scientific advisor



Prof. Javier Medina

Professor in neuroscience at Baylor College of Medicine in Houston.

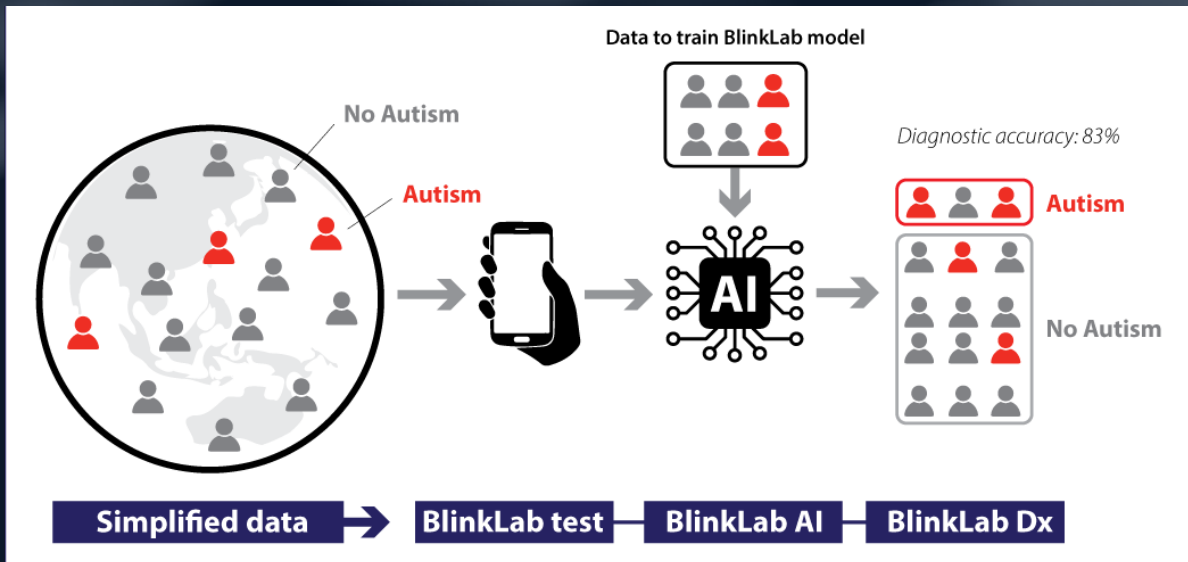


World leading scientists, strategic and commercial advisors.

Optimizing AI and machine learning for BlinkLab Dx

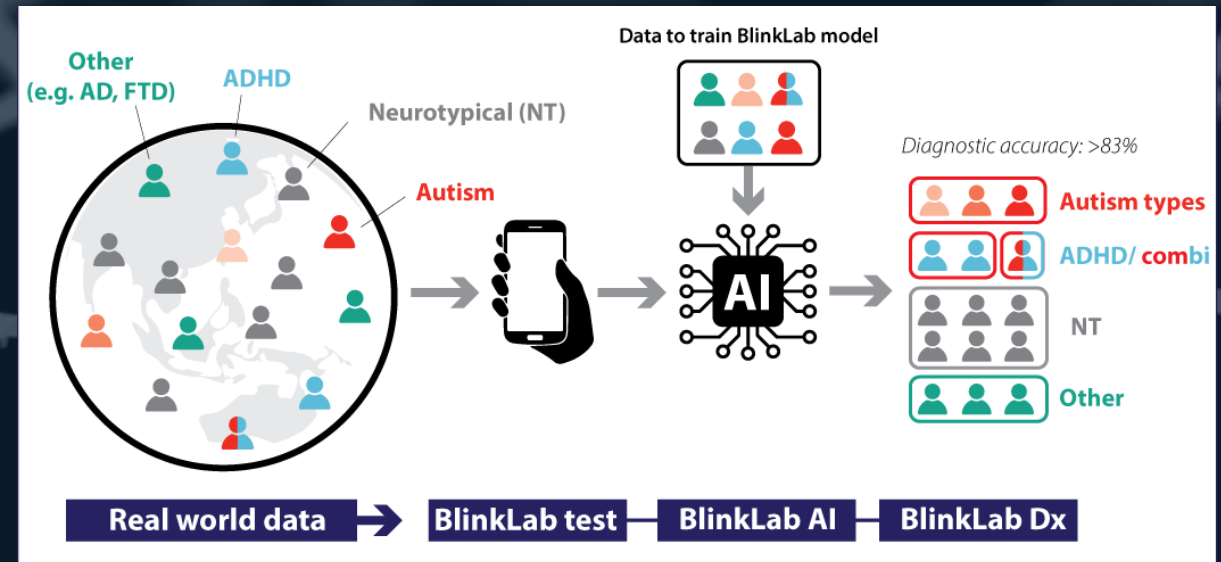
Establishing academic partnerships is crucial not only for academic and clinical adoption but also for training our ML and AI models with diverse datasets that reflect real-world diagnoses.

PREVIOUS STUDIES



Our binary AI classification model, which categorizes individuals into 'Autism' and 'No Autism,' achieved an 83% diagnostic accuracy. However, this model's assumption of only these two categories oversimplifies the complexity of real-world diagnoses.

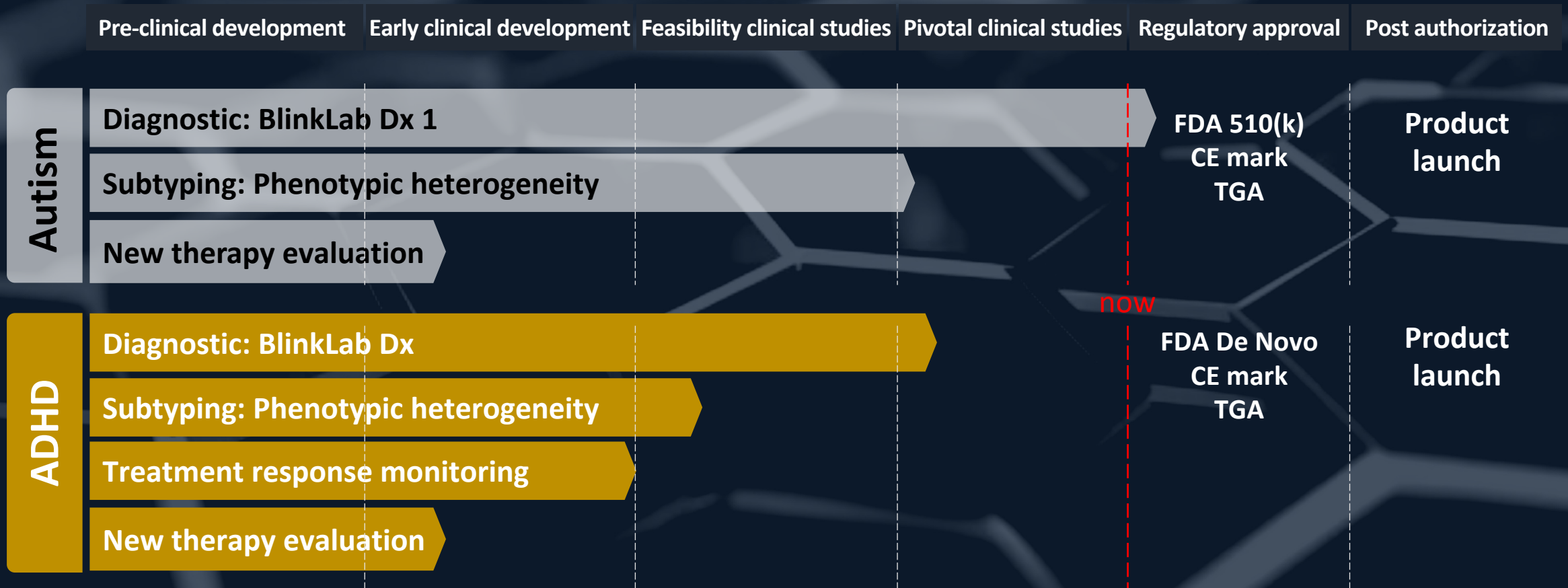
CURRENT WORK



We are currently training our AI model with data that more accurately reflects real-world diversity, including other neuropsychiatric conditions such as ADHD, Alzheimer's (AD) and frontotemporal dementia (FTD). This enhances the model's performance in identifying autism subtypes and ADHD.

R&D Pipeline

Our R&D pipeline is focused on obtaining FDA 510(k) clearance and EU regulatory approval for BlinkLab as a diagnostic adjunct for autism and ADHD.



Important milestones

News pipeline: Updates on regulatory studies on autism and ADHD and new partnerships

Milestone	Timeframe
Start of activities for FDA registrational study in autism	*2Q 2024
Interim data from ADHD clinical study in EU	*3Q 2024
Appointment of US based CRO to conduct FDA registrational study in Autism	*4Q 2024
Final data from large clinical study in autism (Morocco/US clinical sites)	4Q 2024
Selection of US clinical trial sites for FDA registrational study	4Q 2024
First subjects tested in FDA registrational study	4Q 2024
Update on CE/ISO certification in EU	4Q 2024
Completion of ADHD clinical study in EU (final data)	2Q 2025
Initiation of FDA registrational study in ADHD	3Q 2025
FDA registration study in Autism complete	4Q 2025
510k FDA submission is Autism	4Q 2025
510k FDA approval in Autism (approx. 6 months after submission)	2Q 2026
Ongoing partnerships updates / new partnerships	ongoing

***Achieved**

Capital structure of ASX:BB1

Pre-IPO Overview (November 2021 – March 2024)	
November 2021: Seed Raising of A\$1.2M	A\$0.07
November 2023: Pre-IPO Raising of A\$1.4M	A\$0.12
April 2024: IPO Raising of A\$7.0M	A\$0.20
Public Market Overview (28 October 2024)	
Share Price	A\$0.26
Shares on issue	99,150,003
Founders' shareholding percentage	37%
Market Cap	A\$25.8M

Intellectual property

Our patents prohibit other parties to conduct neurometric testing using mobile devices.



BlinkLab has consistently prioritized the development and protection of its intellectual property since its seed funding round in August 2021. Our capital investments sourced from seed investors, government funding, and industry sponsorships - have been primarily utilized for IP and software development.



We are represented by the US-based law firm, Meagher Emanuel Laks Goldberg & Liao, LLP, which ensures our IP protection. We have filed National Stage Applications for 2020-2021 patents across various jurisdictions including the United States, Japan, Canada, Australia, Korea, and the European Patent Office (EPO) in March 2023.



Our portfolio comprises patents filed both by Princeton University, under an exclusive license agreement, and BlinkLab itself. These patents range from systems for neurobehavioral testing to methods for measuring emotional engagement, all of which firmly establish our innovation and leadership in the field.



Patents filed by Princeton University, with an exclusive license agreement in place between Princeton University and BlinkLab:

- PCT application number PCT/US2021/058698 Filed November 10, 2021, entitled “System and Method for Remote Neurobehavioral Testing”
- US patent application number 18/036,009 Filed May 9, 2023, entitled “System and Method for Remote Neurobehavioral Testing”
- European patent application number 21892692.1 Filed March 31, 2023, entitled “System and Method for Remote Neurobehavioral Testing”
- Japanese patent application number 2023-528017 Filed May 10, 2023, entitled “System and Method for Remote Neurobehavioral Testing”
- Canadian patent application number 3,195,596 Filed April 13, 2023, entitled “System and Method for Remote Neurobehavioral Testing”
- Korean patent application number 10-2023-7018839 Filed June 2, 2023, entitled “System and Method for Remote Neurobehavioral Testing”
- Australian patent application number 2021378273 Filed May 23, 2023, entitled “System and Method for Remote Neurobehavioral Testing”



Patents filed by BlinkLab:

- US Provisional patent application number 63/218,607 Filed on November 30, 2022, entitled “Psychopharmacological System and Method Using Eyelid Tracking”
- US Provisional patent application number 63/460,451 Filed on April 19, 2023, entitled “Method And System For Measuring Emotional Engagement”
- US Provisional patent application number 63/548,542 Filed on February 1, 2024, entitled “System And method For Detecting Neurological Condition”

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