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Source:	Cognetivity (UK)	
Title:	New TG or subtopic proposal: Scalable digital platform for proactive brain health - Att.1 Presentation	
Purpose:	Discussion	
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Abstract:	This PPT contains a presentation of O-037.	



Powering proactive brain health

Dr Seyed Khaligh-Razavi,

Chief Science Officer, Cognetivity Neurosciences

Opportunities for utilising innovative technology to support dementia patients

Our Vision



To establish a new global standard for brain health



Cognitive impairment is a symptom of a wide range of brain health issues, such as:

- Oementia 55m patients¹
- Depression 300m patients¹
- Anxiety 40m patients¹
- Brain injury 75m patients annually¹
- Other neurological disorder

Early detection leads to far better patient outcomes and a dramatically reduced cost of care (dementia alone saves **\$7.9** trillion²)

1. World Health Organisation 2020, global prevalence 2. Alzheimer's Association 2018



There is a major problem with detecting cognitive impairment

Existing assessment methods suffer from:





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How do you address a \$1 trillion global health problem without adequate instruments?



Introducing CognICA

An intelligent SaaS solution



How CognICA[™] works

A patented rapid visual categorization task uses natural images of animals

Images are displayed for a fraction of a second. Users tap to classify each in turn as **animal** or **non-animal**.



Using speed and accuracy as a digital biomarker allows an accurate and effective assessment of cognitive function. See it in action at

cognetivity.com/cognicademo



The use of animal imagery is an integral element of the test – the human brain's unique reaction to animal stimuli is a key facet of our developmental history



Built-in explainable Artificial Intelligence





explainable AI allows for accurate and generalizable detection of cognitive impairment



as well as a culturally diverse population of patients across 3 different continents

Validated and tested across 15 NHS trusts ,

Significant Correlation with Fluid Biomarkers of Neurodegeneration



False Positive Rate

*AUC of 96% in detecting dementia, and 87% in detecting MCI.

*More broadly, across a wider range of disorders, ICA's area under the curve (AUC) in detecting cognitive impairment ranges from 84% to 96% depending on the settings (e.g. realworld vs. research setting) and the patient population.

Biomarker	r-value
NfL	-0.79 **
AB40	-0.52 **
p-tau	-0.35 *
AB42	-0.34 *

*p<0.01, **p<0.001

Selected Cognetivity publications:

- 1) Khaligh-Razavi, S.-M. et al. Integrated Cognitive Assessment: Speed and Accuracy of Visual Processing as a Reliable Proxy to Cognitive Performance. Sci. Rep. 9, 1102 (2019).
- 2) Khaligh-Razavi, ..., Kalafatis, C., & Nabavi, S. M. (2020). A self-administered, artificial intelligence (AI) platform for cognitive assessment in multiple sclerosis (MS). BMC neurology, 20(1), 1-13.
- 3) Shore, Judith, et al. "Health Economic Analysis of the Integrated Cognitive Assessment Tool to Aid Dementia Diagnosis in the United Kingdom." medRxiv (2022).
- 4) Kalafatis, , Modarres, , ... & Khaligh-Razavi (2021). Validity and cultural generalisability of a 5-minute AI-based, computerised cognitive assessment in Mild Cognitive Interview Alzheimer's Dementia. Frontiers in Psychiatry, 12, 1155.

BENEFITS FOR HEALTHCARE PROVIDERS and Patients...

Numerous competitive advantages in clinical practice

Scalable

A 5-minute test, self-administered under non-expert supervision, leading to increased patient throughput and cost-efficiency

SENSITIVITY AND ACCURACY

Potential to detect cognitive impairment significantly earlier than current methods

AVOIDANCE OF BIAS

Consistency across individuals from different cultural and educational backgrounds



mi

COST SAVING

Saving the NHS ~£147 per patient in a GP setting



LONGITUDINAL MONITORING

Long-term tracking of pre-dementia patients (MCI) or responses to treatment





Company Summary

January 2022

Cognetivity Neurosciences Ltd.

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