

CONSCIOUS MIND SOLUTIONS

Publisher · Creator · Distributor · Facilitator



CogTrace Battery

(CTB)

A Digital Cognitive Domain Screening Instrument

Client Proposal & Product Catalogue

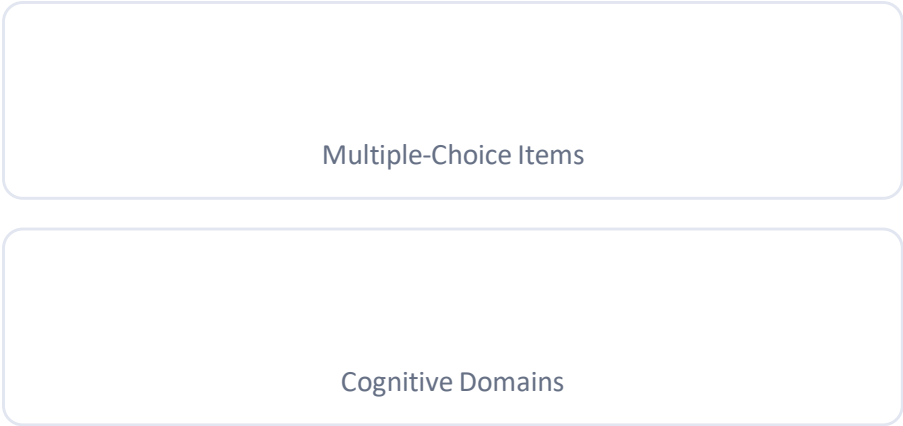
EXECUTIVE SUMMARY

Cognitive Domains.

Conscious Mind Solutions presents CogTrace Battery (CTB) — a compact, fully digital cognitive screening battery built to measure ten distinct cognitive domains in a single session.

CTB is designed for organizations that need a fast, standardized, easily-scored instrument for research studies, preliminary clinical screening pilots, training environments, or internal cognitive-wellness programs.

As the exclusive publisher, creator, distributor, and facilitator of CTB, Conscious Mind Solutions provides the complete package your team needs to deploy the instrument responsibly — the item bank, administration protocols, scoring tools, derived-index calculations, and ongoing technical support.



Why CTB



Broad Domain Coverage

Ten cognitive domains captured from a single, compact session.



Fully Digital Format

Fast to administer, fast to score, minimal examiner training required.



Built-In Delay Design

An embedded ~20-minute interval enables a genuine immediate-vs-delayed Forgetting Index.



Bias-Corrected Scoring

Verbal recognition scoring nets out guessing via a Discrimination Index.



Executive Function Depth

Separately captures planning ability, cognitive flexibility, and perseveration.



Transparent, Auditable Design

Every item, scoring rule, and index is fully documented for your own review.

The Meaning Behind “CogTrace Battery”

The instrument is named CogTrace Battery (CTB) — a digital cognitive domain screening instrument. Each element of the name was chosen deliberately:



Cog

signals the instrument's cognitive focus.



Trace

evokes the tracking of cognitive processes, memory traces, and response patterns — without implying diagnosis.



Battery

correctly signals a multi-domain instrument rather than a single-scale test.



Trademark distinctiveness

the name is distinct from existing instruments and trademarks such as CANTAB, CogScreen, RBANS, MoCA, and MMSE.



Tone

neutral, research-friendly, and internationally pronounceable, supporting use across diverse research and clinical-adjacent settings.



Conscious Mind Solutions

Conscious Mind Solutions is the creator, publisher, distributor, and facilitator of CogTrace Battery (CTB).

All intellectual property in the item bank, scoring algorithms, and derived indices described in this catalogue is owned and maintained by Conscious Mind Solutions.

Licensing, technical support, updates to the item bank, and any future normative datasets associated with CTB are made available exclusively through Conscious Mind Solutions.

“

*One publisher. One source of truth
for the item bank, scoring, and every
future update.*

Powered by Conscious Mind Solutions

CTB is administered digitally through a secure assessment platform built and operated by Conscious Mind Solutions. Beyond cognitive screening, the platform also supports personality, aptitude, emotional, and behavioral assessments — giving your organization one secure dashboard for every psychometric tool it deploys.



Admin login — the Conscious Mind Solutions assessment platform

Precision Built on Neuroscience

CogTrace assessments provide scientifically validated, highly sensitive, precise and objective measures of cognitive function, correlated to neural networks.



Scientifically Validated



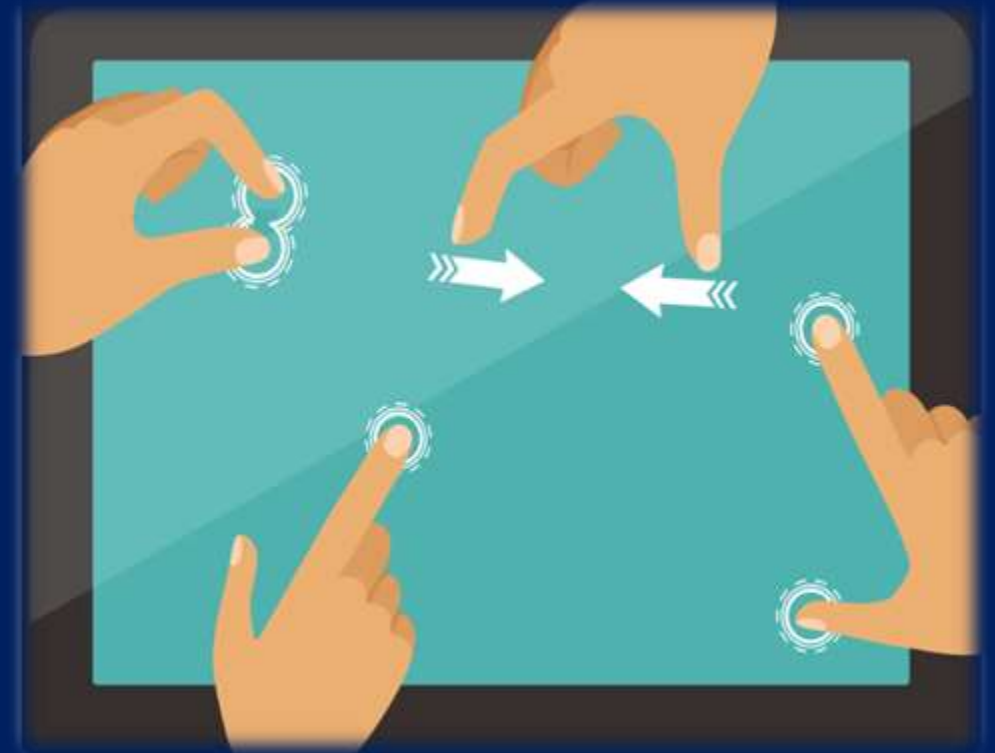
Highly Sensitive & Objective



Correlated to Neural Networks

CogTrace Cognitive assessments Battery

CogTrace assessments provide scientifically validated, highly sensitive, precise and objective measures of cognitive function, correlated to neural networks.



Language independent, facilitating
consistent cross-cultural research

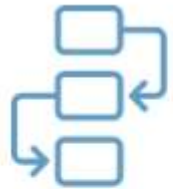


Multiple task variants avoid floor and
ceiling effects, allowing test difficulties
to be adjusted for all ages and abilities



Practice effects are reduced with
parallel modes and stimuli
randomisation

More targeted to measure specific cognitive domains than pen and paper assessments, our digital cognitive assessments produce more data points and reduce noise, making them highly sensitive.



High sensitivity to
pharmacological and
environmental effects



Translational utility enables
comparisons with preclinical
findings



Reduce human error and
variability with automated data
capture and scoring



Automated test delivery removes
variance for consistently high
quality data

Validated to Measure Specific Cognitive Domains

Our cognitive function-specific tests are calibrated to provide highly accurate data in clinic, on iPads, or remotely using web-based testing.



Attention & Psychomotor Speed



Executive Function



Emotion & Social Cognition



Memory



Test across larger geographical areas with web-based testing.

A Comprehensive Solution



Secure

Enterprise-grade data protection built into every session.



Cost & Time Efficient

Faster testing that converts into meaningful savings for study teams.



Scalable

From single-site pilots to large, multi-location rollouts.

- Data quality maintained with task adherence checks
- Saves time and makes testing more convenient for participants and study teams
- Clear on-screen and voice-over instructions with an easy-to-use interface

Cognitive & Behavioral Test Battery

Part 1 of 2 — item-level domains captured within the CTB administration protocol.



Decision-Making

Risk-taking and impulsivity assessed under a time-limited context.



Rule Learning

Comprehension, learning, and reversal — trait general rule-following.



Motor Screening

General assay of sensorimotor/comprehension limits on valid clicking.



Reaction Time

Motor and mental speed, movement time, accuracy, impulsivity.



Pattern Recognition Memory

Forced-choice non-verbal, simultaneous matching; short-term visual memory.



Object Naming

Graded difficulty to capture individual differences.

Cognitive & Behavioral Test Battery

Part 2 of 2 — item-level domains captured within the CTB administration protocol.



Attentional Set-Shifting

Visual discrimination, set formation, maintenance and shifting.



Executive Function

Sustained attention, spatial planning and working memory.



Visual Pattern Memory

Speed/accuracy trade-off; latency dissociated from memory time.



Spatial Working Memory

Capacity, search and manipulation of visuospatial info.



Visual Search Matching

Visual search, target detection and processing speed.



Verbal & Visual Memory

Verbal and visual memory, recall and new learning.



Inhibitory Control

Frontal function for attention control and speed.

Technical Features



Language & Interface

Multiple Indian languages including English & Hindi; touchscreen operation.



Portability

Light and portable, for both laboratory and field use.



Power

Operates on battery and mains.



Usability

User-friendly, administered on touchpad, no extra accessories.



Storage, Analysis & Connectivity

i5 latest gen, 8GB RAM, 500GB SSD, 15.6" screen.
Wireless available with the data acquisition system.



Data Acquisition System

i7 or latest / 64GB+ storage / 4GB+ RAM / 10.2"+ display
/ iPadOS, Windows 10+ or macOS 10.6.8+.

Compliance



Quality Standard

ISO & CE or equivalent certification.



Warranty

3 years standard; CAMC (Comprehensive Annual Maintenance Contract) available as per requirement.

Applications & Target Use Cases



Research Institutions & Universities

A ready-made, fully documented instrument for cognitive psychology and psychometrics research requiring a short, multi-domain battery.



Clinical & Allied Health Settings

A validated clinical screening tool, previously used and tested in real-world settings to flag domains warranting further specialist evaluation.



Corporate Wellness & Occupational Assessment

A brief cognitive-wellness check-in for shift-work, fatigue, or return-to-work screening pilots, used descriptively.



Training & Education Programs

A practical teaching instrument for students learning standardized administration, scoring, and psychometric interpretation.

Licensing Tiers



Foundation

Pilot studies, single-site research, academic labs

- ✓ Single-site digital license
- ✓ Full 78-item battery
- ✓ Standard scoring worksheet
- ✓ PDF administration manual



Professional

Multi-site programs, clinics, wellness pilots

- ✓ Everything in Foundation
- ✓ Automated latency capture
- ✓ Response randomization engine
- ✓ Raw data export + email support



Enterprise

Large research consortia, institutional rollouts

- ✓ Everything in Professional
- ✓ Dedicated onboarding
- ✓ Custom reporting dashboards
- ✓ API access + named account manager

GET IN TOUCH



Let's Talk

Have a question about licensing, deployment, or the research behind CTB? We'd love to hear from you.



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