



Suspect
Investigation

Human Profiling

using

Brain **E**lectrical **O**scillation **S**ignature profiling - BEOS

Investigate using BEOs

Terrorists

Insurgents

Criminals

Narcotics

Financial crimes

Credibility Assessment





400+
cases
reported



600+
Suspects
screened

In use
since
2004

CASES — INVESTIGATED



Terrorism | Murders | Rapes
Financial Crimes | Cyber Crimes

Brain Electrical Oscillation Signature

BEOS tracks neural processes related to memories and remembrance

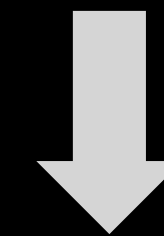


BEOS is not a Lie Detector / P300 test

Memories & Remembrance

- What did you do on the 2nd Sunday of last month?
- What did you do last December ?
- What food did you serve at your wedding / child's wedding ?

Some memories never leave us



Stored as
Experiential Knowledge



Finger-
printing

What if multiple
sets of fingerprints
are recovered ?

DNA

What if the crime
scene has DNA
from multiple
sources ?

WHO

?

BEOS

gives the
answers

How do you link a gun
to the person who
pulled the trigger ?

Ballistics

How do link a
computer, mobile,
network connection
to a person ?

Digital

Validated

Technology Information Forecasting Assessment Council – TIFAC - Delhi

Department of Science & Technology, Govt. of India

Project executed by Directorate of Forensic Sciences, Gandhinagar, Govt. of Gujarat, India (Completed 2008)

110 Participants

56 experimental

54 control group

12 were control witnesses

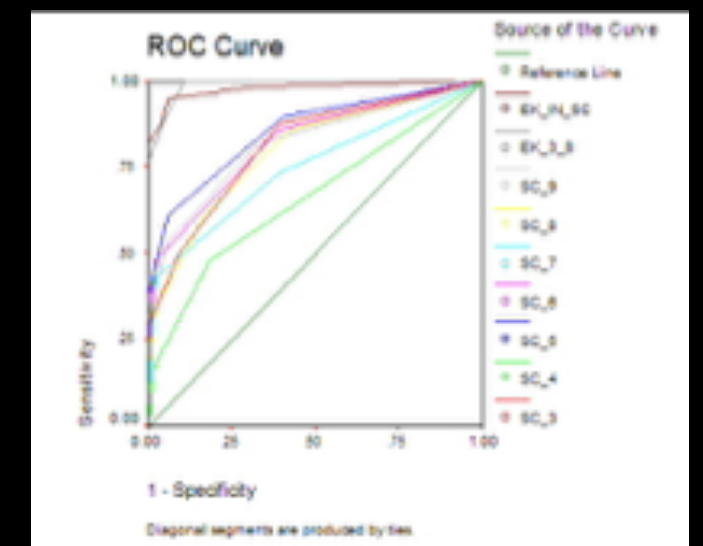
Sample divided into six age groups

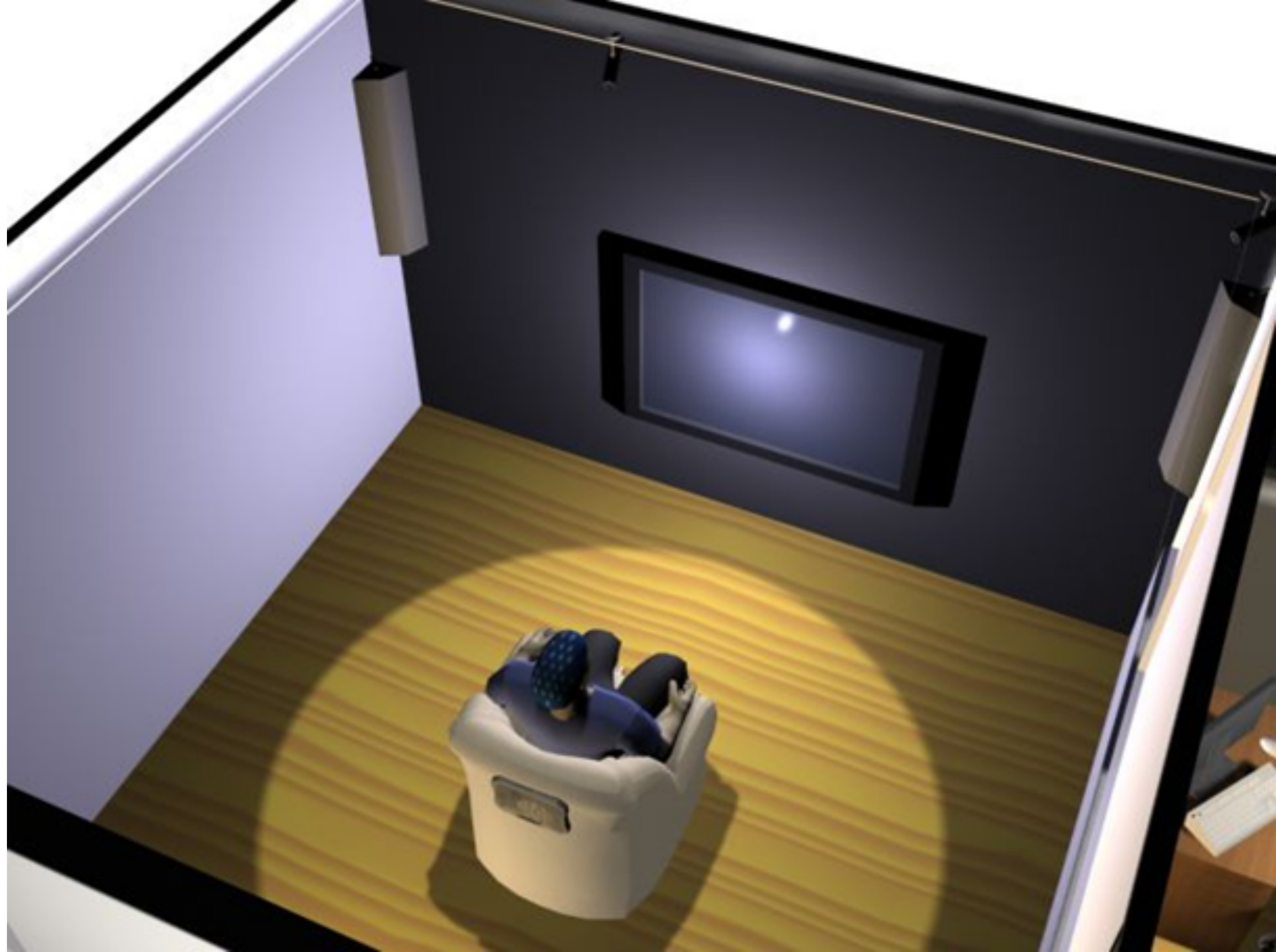
Male and female

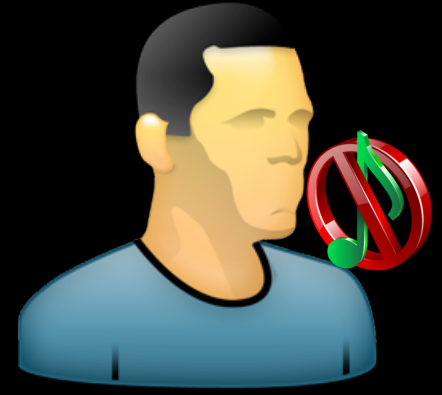
3 languages – English, Hindi, Gujarati

Sensitivity = 91%

Specificity = 94%







No response - required from the Suspect

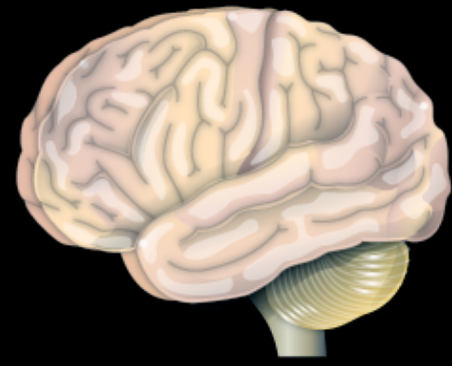


Non Invasive - no violation of laws / religious principles

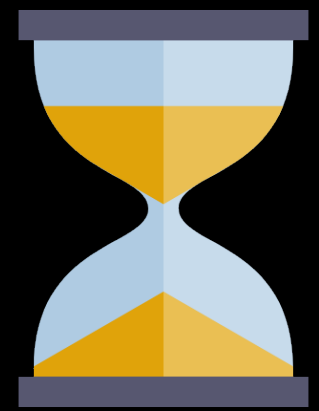


Human rights friendly - *Avoid physical interrogation*





Looks for *Experiential Knowledge*



Automated test in less than 1 hour



High-accuracy Automated Reporting

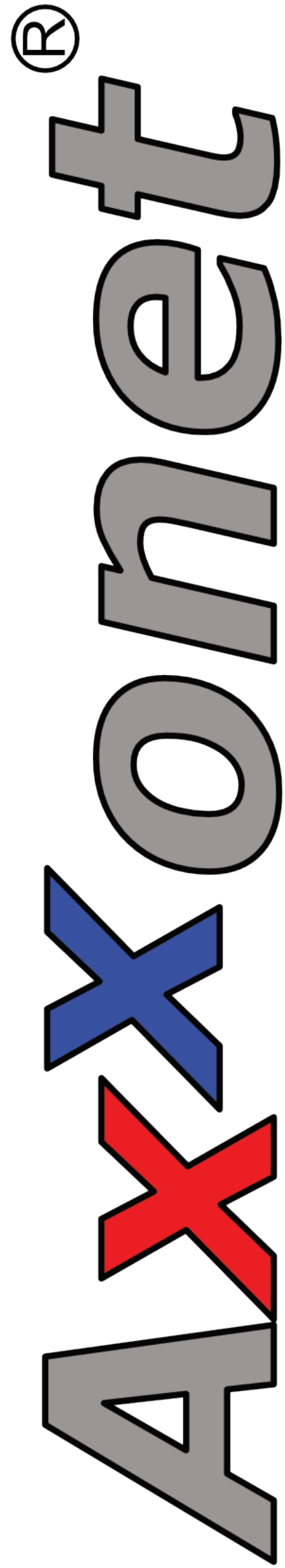
Automated Reporting

Involved

Sr.No.	Probes	P.ID	Signature
20	mi ani [REDACTED] ne ayesala terrace var nei	ARA	Encoding --82-2-5
21	terrace var andhar hota	PSR	Experiential Knowledge III-64-4-8
22	terrace var khup adgal hoti	IIR	Primary Processing
23	[REDACTED] gadbad aslyache janavle	TSR	Encoding
24	Tine palanya cha prayatn kela	TAR	Experiential Knowledge III-64-4-8
25	Amhi tila pakdun thevlele	ARA	Experiential Knowledge III-45-6-9
26	Tine pratikar kela	TAR	Encoding III-45-6-9
27	Ti ordu lagli	TAR	Encoding
28	Amhi tiche tond dablela	ARA	Encoding --100-0-0
29	amhi tila panel javal nevun tila zopval	ARA	Primary Processing
30	tichi chaddi kadhli	ARA	Encoding --82-2-5
31	[REDACTED] tiche tond dharun hota	TAR	Experiential Knowledge III-55-5-9
32	mi mazi pant kadhli	ARA	Encoding III-73-3-7
33	mi tichyavarjabardasti karnya cha prayatn	ARA	Primary Processing
34	Ti khup ghabrali hoti	TSR	Primary Processing
35	[REDACTED] khup radat hoti	TAR	Primary Processing
36	ti khup pratikar karat hoti	PSR	Encoding
37	[REDACTED] e hi tichyavar jabardasti keli	PVR	Encoding III-9-10-3
38	Nantar aamhi ghabarlo	PSR	Encoding --100-0-0
39	Koni pahil asa vatla	PSR	Encoding

Not Involved

Sr.No.	Probes	P.ID	Signature
**SCENARIO 3 - LAST SIGHT OF [REDACTED]			
1	I was in room No [REDACTED]	AR	Inattention
2	I was with [REDACTED]	AR	Primary Processing
3	We were studying in room No [REDACTED]	AR	Experiential Knowledge III-0-16-0
4	At about 6.45pm, [REDACTED] came to the room	AR	Encoding --88-2-6
5	She entered through [REDACTED]'s room	AR	Encoding --75-4-10
6	She went to her room No. [REDACTED]	AR	Encoding
7	She went to her room through balcony	AR	Primary Processing
8	[REDACTED] came back to our room after a while	AR	Encoding III-50-8-13
9	[REDACTED] was carrying 2 books	AR	Primary Processing
10	[REDACTED] kept books and her mobile in Versa [REDACTED] room	AR	Encoding --81-3-8
11	[REDACTED] again left the room	AR	Primary Processing
12	[REDACTED] went towards balcony	AR	Encoding
13	[REDACTED] started studying.	AR	Encoding --94-1-3
14	I left [REDACTED]'s room talking over the phone	AR	Encoding --94-1-3
15	At around 8pm, I saw [REDACTED] standing outside [REDACTED] Versa	AR	Encoding III-31-21-22
16	On asking the reason, [REDACTED] said she was [REDACTED]	AR	Encoding
17	She was going for biometric signature	AR	Primary Processing
18	and to pay [REDACTED] phaiya.	AR	Encoding
19	I don't know how [REDACTED] came back to her [REDACTED] room.	AR	Encoding --75-4-10



Thank You

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