



Brain Profiler

Economic Need

43 million psychiatric patients in the US alone

Expenses American mental healthcare system, annually exceeding **\$200 billion**

More than heart conditions (\$147 billion), trauma (\$143 billion), and cancer (\$122 billion).

Technological scientific Need

The first and only App that integrates the following

Clinical Psychiatry



Digital Mental Health



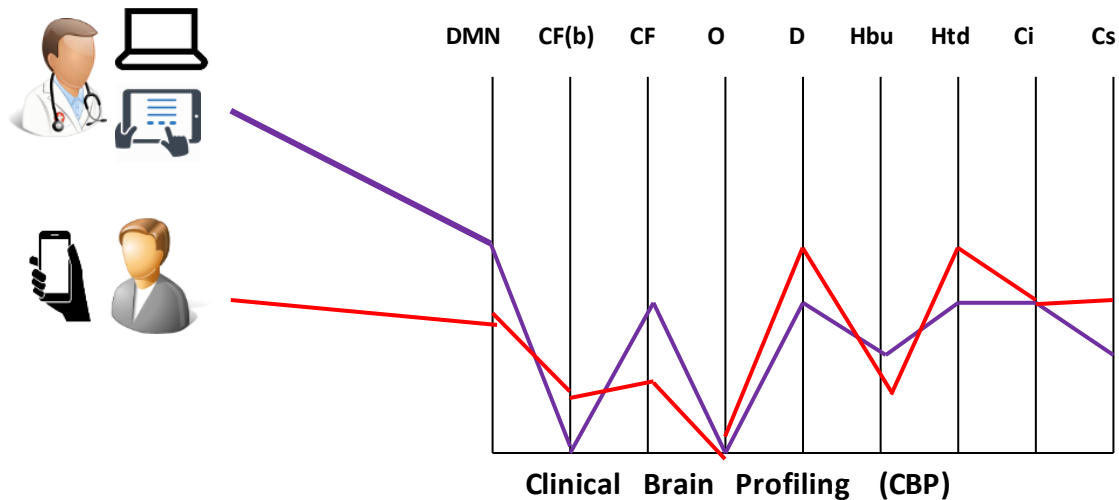
Neuroscience



Optimal clinical Follow-up

The clinician rates the clinical findings (Phenomenology) on a 9-scale format

The patient rates his symptoms (complaints) on the same 9-scale format



Optimal clinical Follow-up

The clinical psychiatry platform acts as a

clever-active-telemedicine EMR:



EMR

Achieves personalized diagnosis,



Personalized

improved adherence to follow-up and treatment,



Tele-medicine

easy ready reports (forensic and others),



EMR

emergency managements using alerts,



Alerts & Notifications

treatment response and visit management.



Treatment-Response

Organize outpatients scheduled visits



Queuing and
Management

Optimal clinical Follow-up

Improved accessibility to better patient care

- *Overcoming limited clinical resources*
- *Overcoming limited staff trained to deliver evidence-based treatment across the many therapeutic orientations*

Location-free, portable, available at any time, and can be used across a broad range of settings and during patient transitions

- *Overcoming logistical difficulties associated with scheduling and travel to receive services*

Cost savings

- *Queue management and prevention of hospitalizations*
- *Overcoming the high cost of training busy staff to deliver evidence-based treatment across the many therapeutic orientations*

Digital Mental Health



Digital wearable sensors, social activity and cyber activity can be used to extract mental-status evolution and Phenomenology assessment in psychiatric patients by using plugins to the clever-active-telemedicine EMR

Cyber

Cyber-Activity = searches web-navigation

Social

Social-Activity = social network connection activity

Connect

Connectedness = outcall in-calls SMSs

Activity

Activity (motor) = oscillometer and navigation

Speech

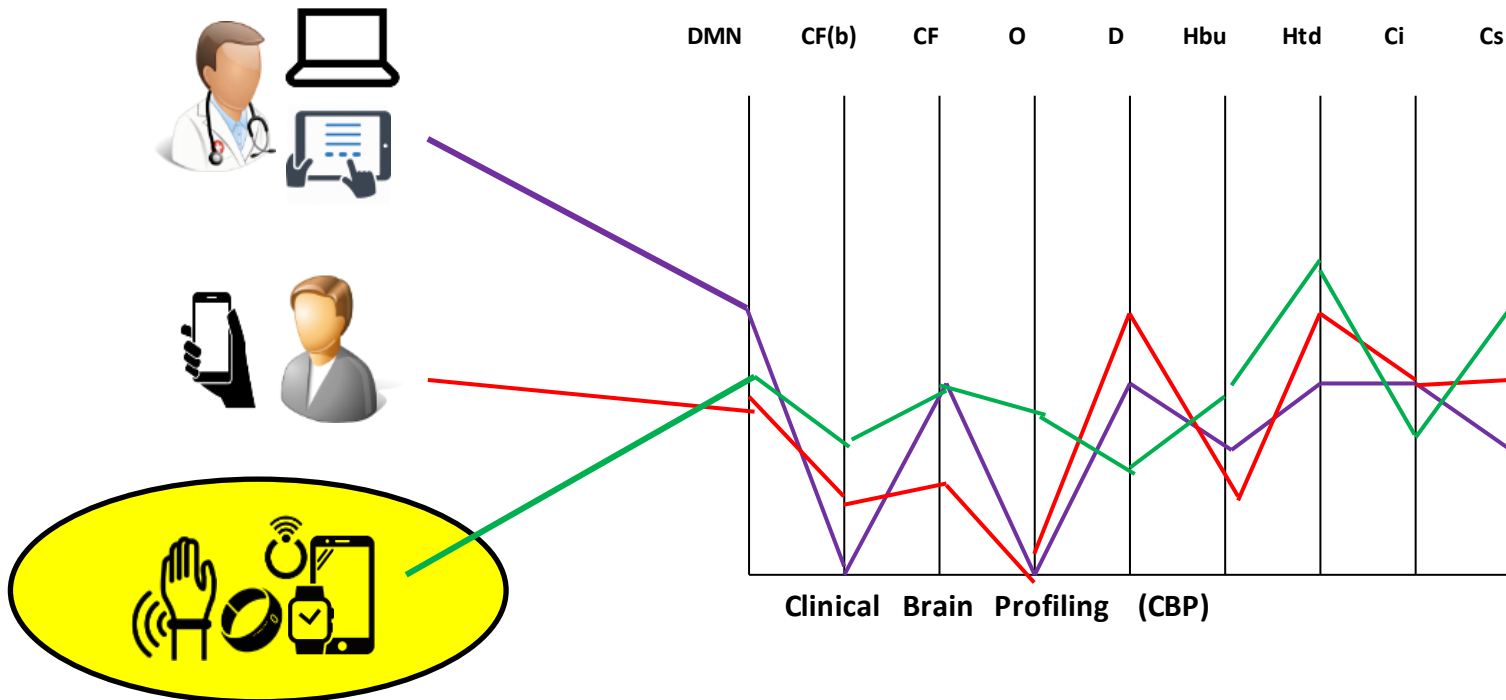
Speech = quantity, level, modulations, sequence, targeted content

Affect

Affect = visual face recognition

Digital Mental Health

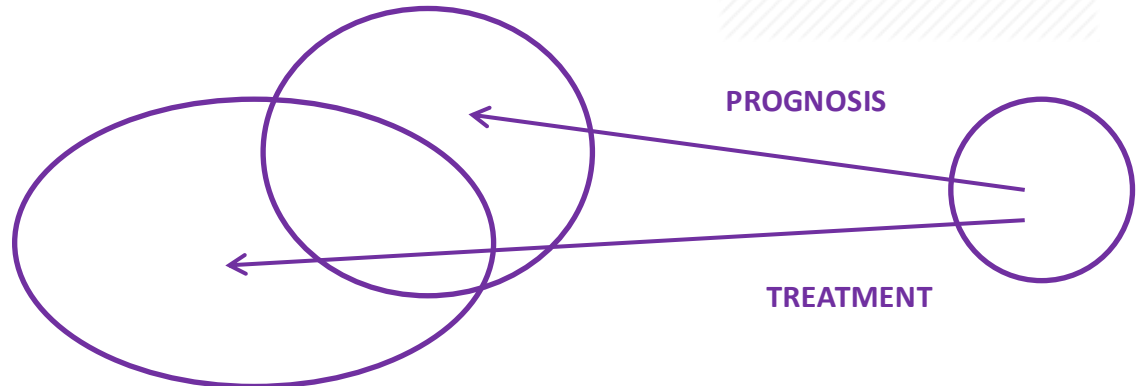
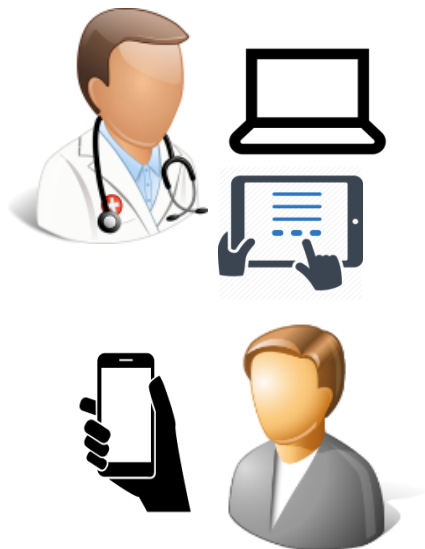
The clinician rates the clinical findings (Phenomenology) on a 9-scale format. The patient rates his symptoms (complaints) on the same 9-scale format. Passive digitally-collected phenomenology data is mapped on the same 9-scale format. Multiple devices act as plugins each contributing additional assessments to be mapped onto the brain profiling algorithm.



Statistics & Big-Data

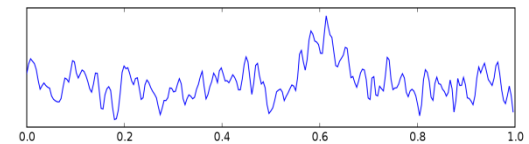
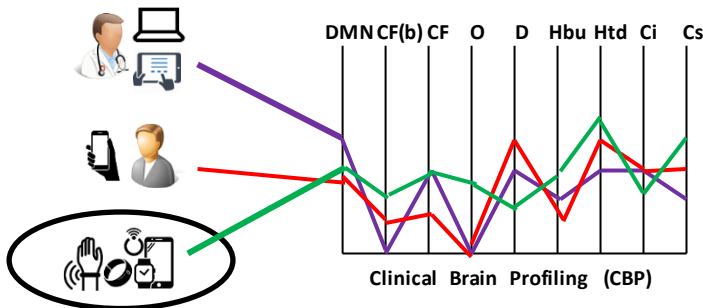
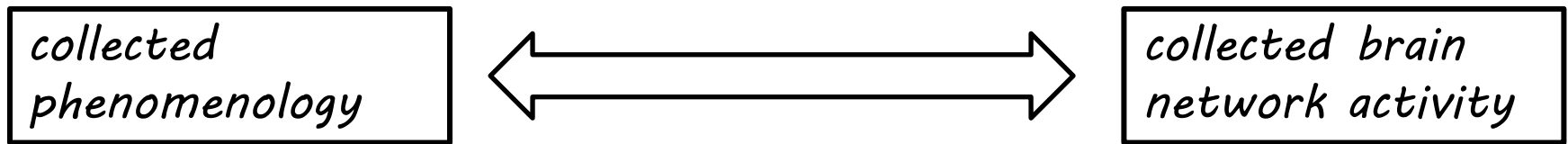
Brain Profiler collects data sets and accumulates large-data, thus building big-data analysis capabilities.

Brain profiler offers statistic powers to diagnosis, treatment and prognosis, for example patient data-sets compared to population-analysis can detect powerful information about treatment medication-response and prognosis

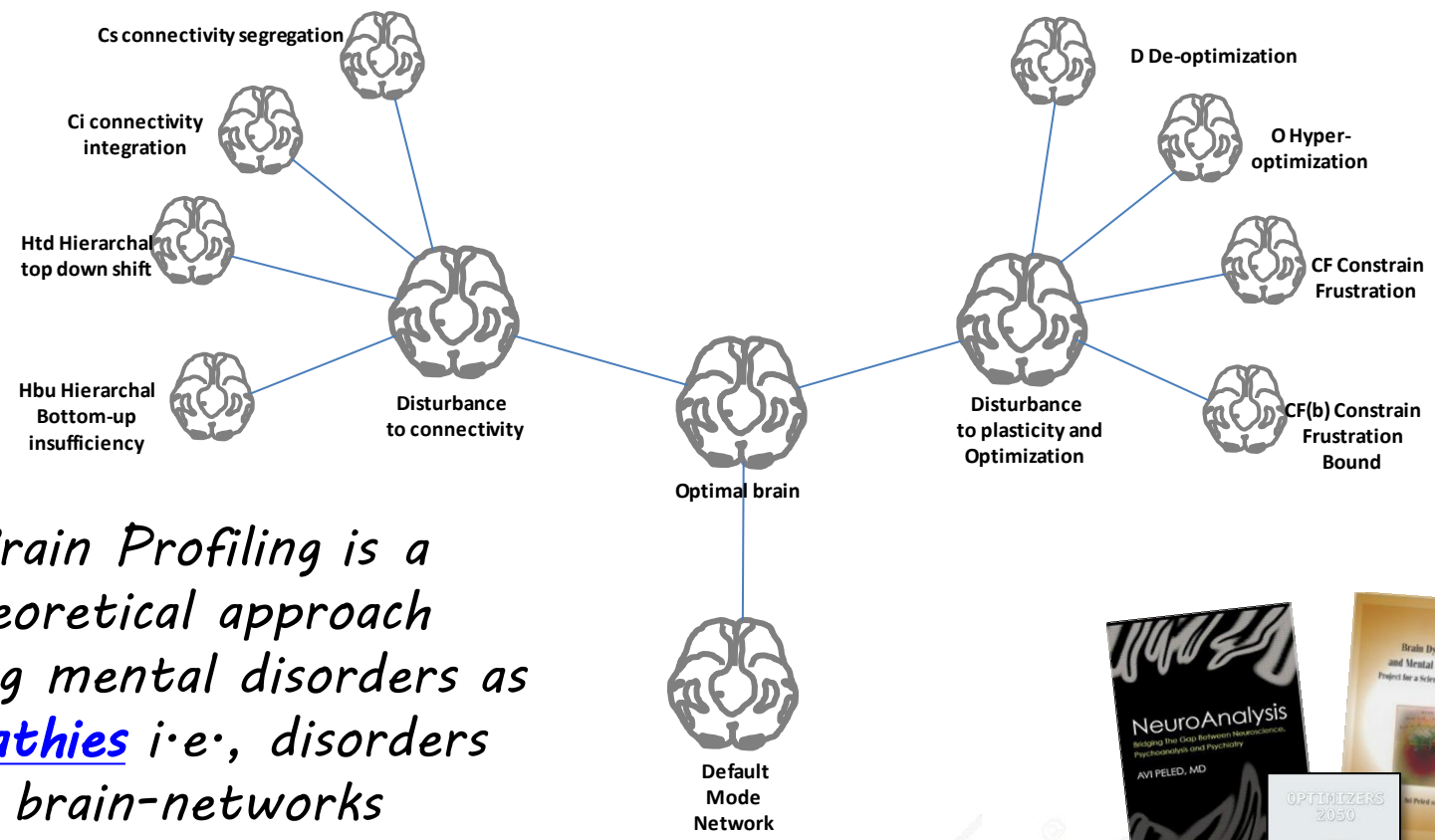


Neuroscience

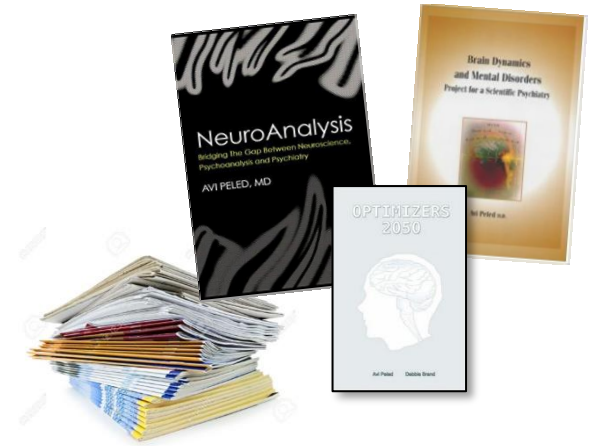
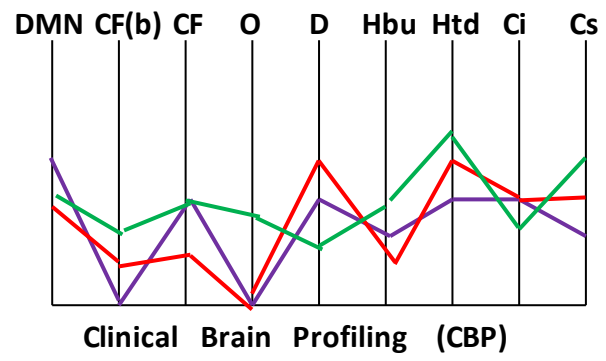
The *CAUSES* of mental disorders are unknown! Without knowing the etiology (causes) of mental disorders their treatment remains ineffective. Brain Profiler will collect large-data of EEG brain imaging enabling machine-learning algorithms to *DISCOVER* the causes of psychiatric illness by finding the causal relationships between collected phenomenology and collected brain network activity



Clinical Brain Profiling



Clinical Brain Profiling is a novel theoretical approach diagnosing mental disorders as Globalopathies i.e., disorders of global brain-networks organization



Based on 20-years of research

Team

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