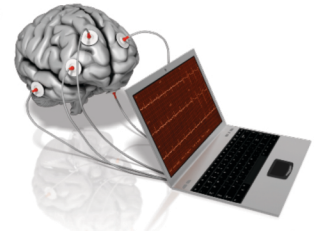# Restorative BCI/CRT Training Method

The NeuroCoach® Platform

• Clinically developed, using a proprietary algorithm in 25,000 sessions/year for 15 years

• Integrates Brain Responses Directly into the Game play

• Players sees in Real-Time how their Brain is Performing based upon the CRT activity performed

• Players can learn to strengthen their Brain performance as they get better at the Neurogame.

• Adaptive NeuroTraining Algorithm

• Uses Classic CRT training methods with a Brain Computer Interface (BCI) technology

• Drive's a player's NeuroGaming experience to enhance neuro-circuit brain responses

NeuroCoach®
by the ntl group

NeuroCoach (a restorative BCI-CRT) training method used in these studies was implemented through a set of training tools composed of a collection of working memory and executive function activities, routinely employed by the author in clinical settings to address brain-based deficiencies.

Each activity is designed to develop a specific resilient functional capacity within a chosen cognitive ability domain (e.g., auditory working memory capacity, impulse control on go/no-go tasks, or cognitive flexibility with variations of modified Stroop activities) and to develop resilience when encountering stress.

Using a variation of the Time-Base Resource Sharing Model paradigms - Resiliency was enhanced by demanding greater performance under a larger, more demanding cognitive load based on varying working memory load demands and performance in conjunction with changing response time constraints.

A restorative BCI interface was used to monitor and adjust cognitive loads based on previously identified self-regulatory cognitive control EEF protocols as they interacted with working-memory performance to influence activity presentation.