



**The 2010  
DoD/VA Suicide Prevention  
Conference  
National Guard Breakout Session**

# Agenda

- Raydon
- Medical VR Infrastructure Concept
- Early Adopters
- National Guard Opportunity
- Issues/Challenges
- Q&A

# WHO IS RAYDON

# Who We Are & What We Do

- Formed in 1988 by three former GE Conduct of Fire Trainer (COFT) logistics engineers
- 300+ employees

## DRIVER TRAINING

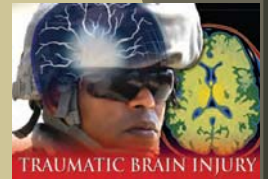


232 Raydon Virtual Driver (RVD) Seats in Schools & Corporations



## MEDICAL

Aggressively Investing in Fundamentally Changing How We Access and Treat TBI, PTSD, and Soldier Resiliency



## MILITARY

Largest Provider of Convoy Training Seats and Route Clearance Training Systems to the US Military

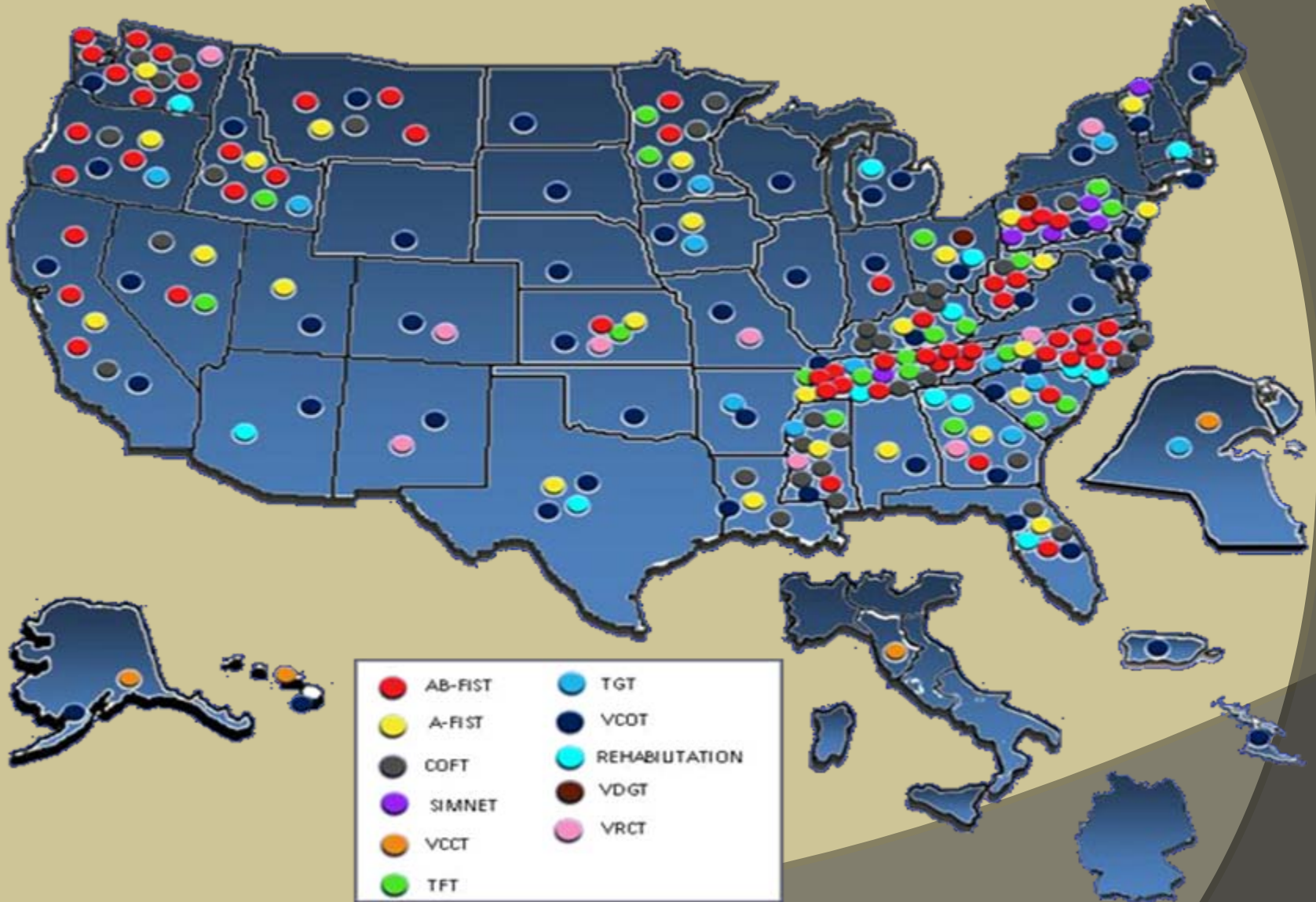


## INTERNATIONAL

Engaging in International Allied Market Sales to Bring Simulation Solutions Worldwide



# \$200M Investment - 2190 VR Training Seats



# Raydon the ARNG Virtual Training Systems Integrator



# **MEDICAL VR INFRASTRUCTURE CONCEPT**

# The Concept



**BASELINE**



**SCREEN**



**RETRAIN**



**REHABILITATE**



**VIRTUAL  
INFRASTRUCTURE**



**TREAT**



# Methods

## Mild Traumatic Brain Injuries (mTBI)



**BASELINE**



**SCREEN**



**REHABILITATE/  
RETRAIN**

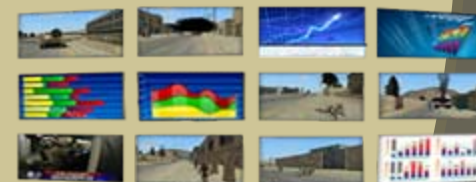
## Post Traumatic Stress Disorder (PTSD)



**INOCULATE &  
BASELINE**



**SCREEN**



**EXPOSURE  
THERAPY**

# virtualRx™ Platforms

- Desktop
  - Full Mission
  - Mobile
- Assessment Center
- Combat Seats



# virtualRx™

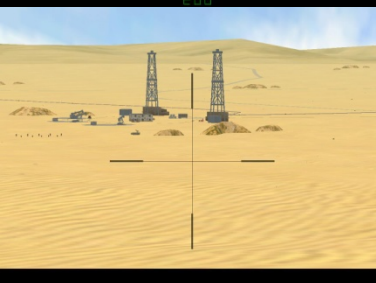
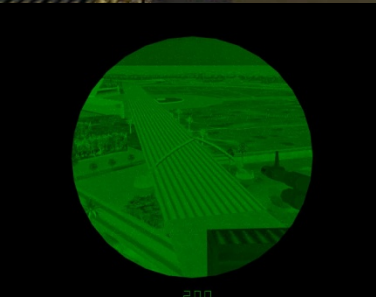
## Content

### Military content:

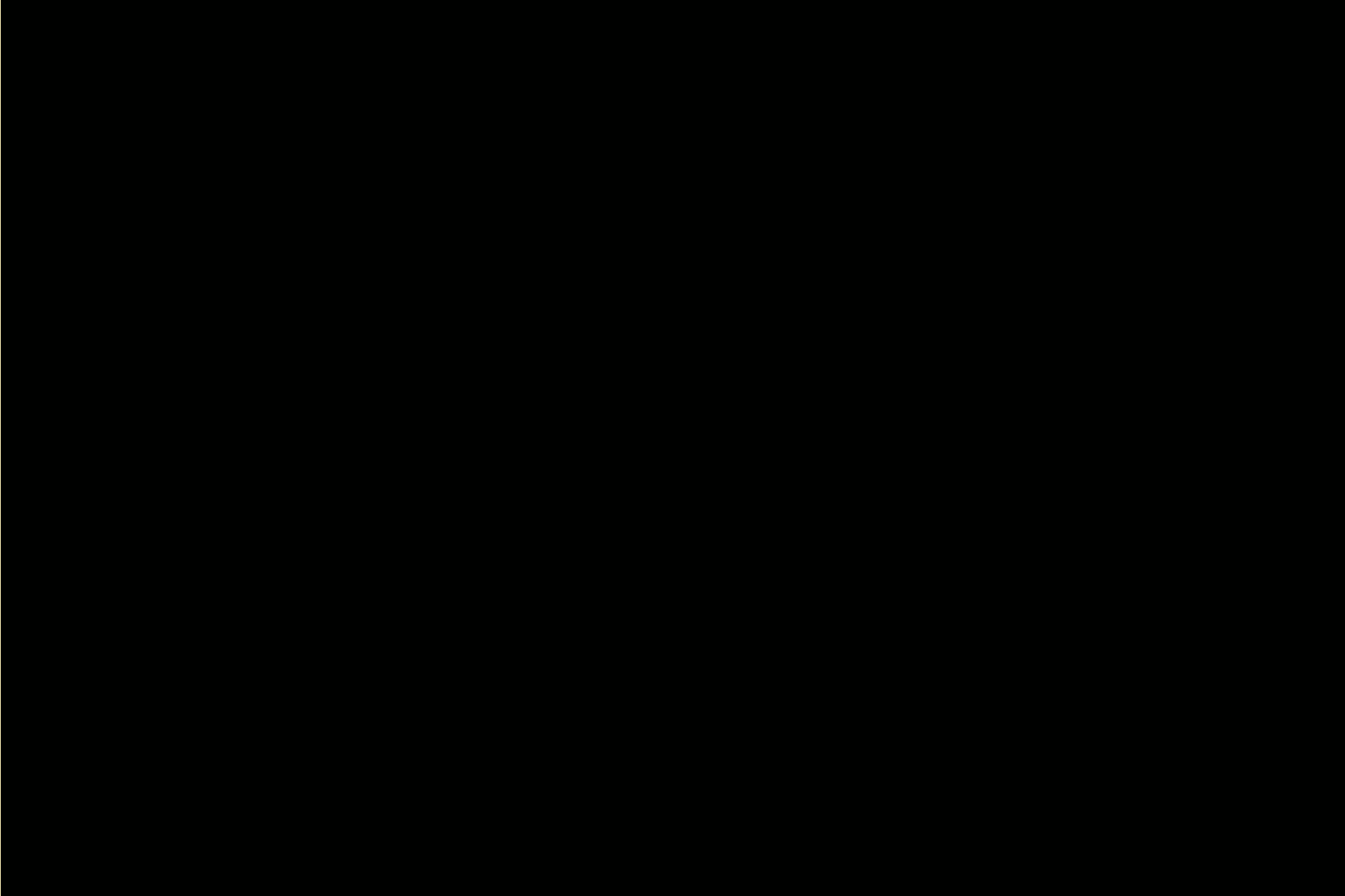
- Geo-specific/geo-typical terrains
- Night vision capabilities
- Canned scenario generation exercises
- Clinician tailored scenario generation exercises

### Driver content:

- Novice driver curricula
- Driver improvement curricula
- Cognitive Assessment curricula
- Selectable Conditions in each curricula



# Terrains



# Army Now



## Army Now

**Title: Soldiers combat PTSD  
though convoy simulation training**

**Air ID: AN111307-2**

**RT: 59 sec.**

**Producer: Thomas**

# **VALIDATION THROUGH CONSUMPTION**

# Medical Facilities using virtualRx™

## Military Treatment Facilities:

- Two locations: Blanchfield and Winn Army Community Hospitals

## Veteran Administration Medical Center:

- Seven locations including one Polytrauma Hospital

## Private Hospital:

- One location: Euclid Hospital



# **PATH FORWARD**



# Five Year Strategy



YEAR 1  
PILOT BASELINE &  
SCREEN



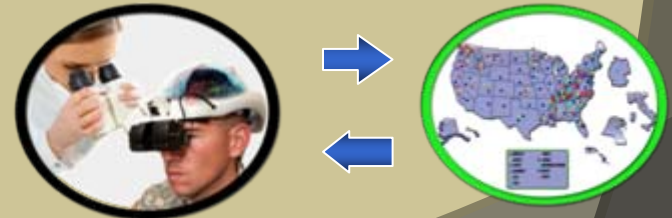
YEAR 2  
UPGRADE  
INFRASTRUCTURE



YEAR 3  
PILOT TREATMENTS



YEAR 4  
UPGRADE INFRASTRUCTURE



YEAR 5  
PILOT PROTOCOL  
PUSH/PULL

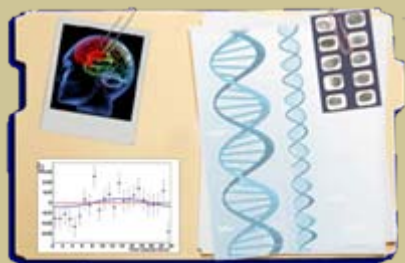
# Cognitive and Psychomotor Performance Data is Analogous to Cognitive DNA



This block contains three distinct visual elements. At the top is a 10x10 grid of small soldier icons, with one icon in the 4th row, 7th column highlighted by a white box. Below the grid is a profile card for 'SGT Joe Smith'. The card includes a small photo of the soldier, a list of 'Combat Platforms' (Abrams, BFV, Stryker), and a 'Skill Rating' table with categories C1, C3, and C4. At the bottom of the card are two horizontal bars: 'Cognitive Skill Profile' and 'Psychomotor Skill Profile', both showing a red fill. At the bottom of the entire block are two smaller images: on the left, a blue ECG-style waveform on a black background; on the right, a green and white patterned image resembling a brain scan or a complex data visualization.

Unique to Each Warfighter and Easy to Collect

# The Benefits



**COGNITIVE DNA  
DATABANK**



**EMPLOY \$200M  
INVESTMENT**



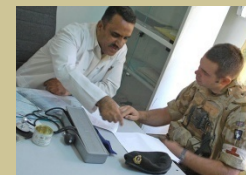
**HIGH TECH  
PERFORMANCE  
RECORDS**



**BASELINE WHILE  
YOU TRAIN**



**CAPABILITY TO THE  
WARFIGHTER**



**CLINICIAN:  
CLIENT RATIO**

# CONCLUSION

- Funding - Who Pays?
- Data Collection – Is Data Private?
- Stigma – Will Warriors Seek to Game it?

# Questions and Answers