


Squad Overmatch Study I/ITSEC

3 December 2013

SGM Higgs



**Army Study
Program's
#1 Proposal**

Train As You Fight?

2EO
STRI



Optimize squad performance and discourage PTSD and suicide

- ☐ Integrate training for resilience, mental acuity, and advanced situational awareness into warrior skills training
- ☐ Replicate extreme stressors in existing live, virtual, constructive, gaming training environments

- ☐ **Focus on improving Squad level collective training**
- ☐ **Focus on developing Squad proficiency in Resilience, Mental Acuity, and Situational Awareness (collectively, the Study referred to these as Cognitive skills)**
- ☐ **Analysis focus on combat stressors**
- ☐ **Identify gaps in training Cognitive Skills, for the following TADSS**
 - Army Games for Training (AGFT)
 - Combined Arms Collective Training Facility (CACTF)
 - Dismounted Soldier Training System (DSTS)
 - Engagement Skills Trainer (EST)
 - Shoot House (SH)

Current Training Paradigm

Post Event Mental State

Accept Reject Adapt

Warrior Skills



Limited Realistic Stressors

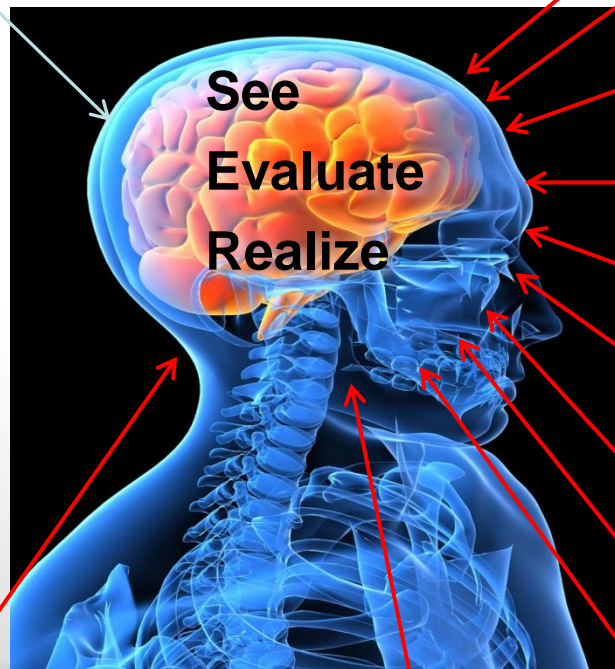
Operational Environment (Combat)



Warrior Skills

Post Event Mental State

Accept Reject Adapt



Had a close call, was shot or hit, but protective gear saved you

Being responsible for the death of an enemy combatant

Exposure to Dead bodies or human remains

Member of Patrol/Unit Killed in Action

Engaging enemy with direct fire or returning fire

Being responsible for the death of a noncombatant

Attack by enemy on Forward Operating base or patrol base Perimeter

Clearing or searching homes or buildings

Seeing ill or injured women or children whom you were unable to help

Wounded in action or have a team member wounded in action

Indirect fire attack from Incoming artillery, rocket, or mortar fire

Stressors defined by Walter Reed Army Institute of Research

Objective Training Model



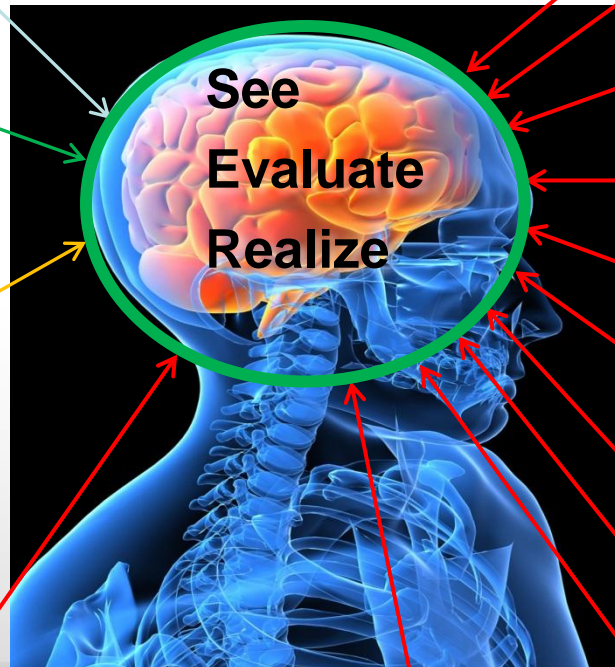
Post Event Mental State

Accept Reject Adapt

Warrior Skills

Resilience Skills

Situational Awareness Skills



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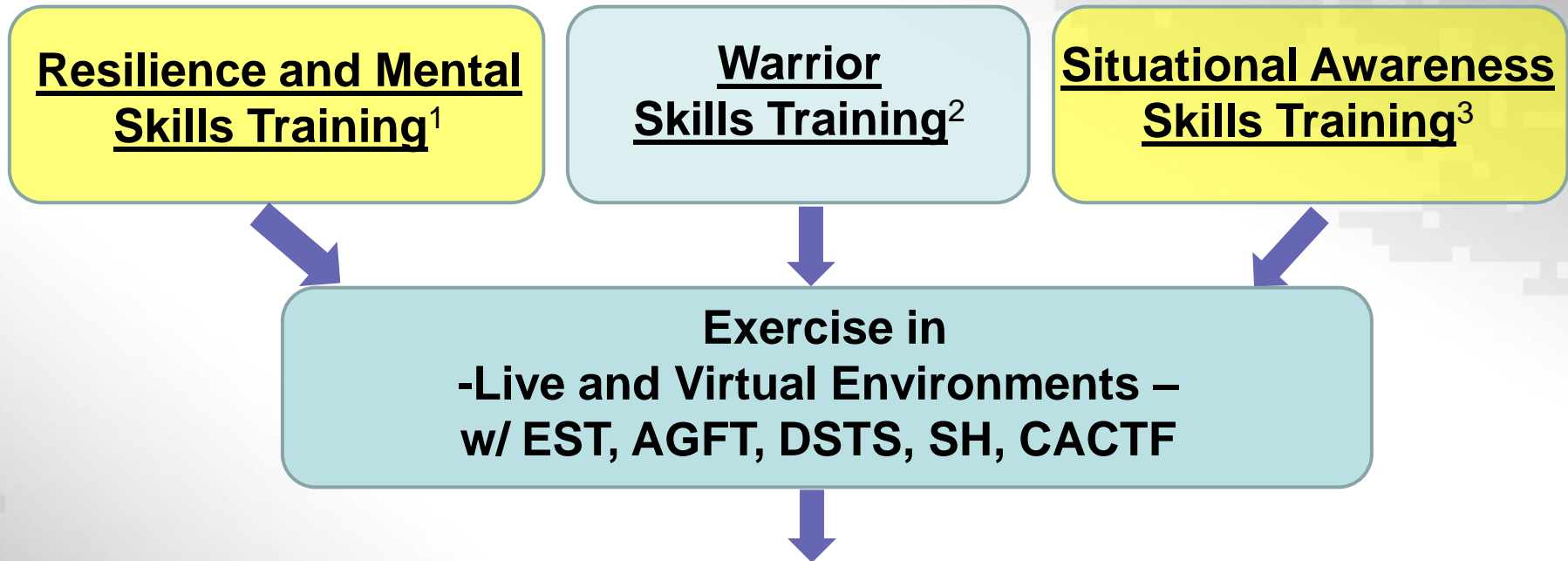
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Squad Integrated Training Approach



U.S. Army Objective is



1) Mental and Resilience Skills from CSF2 Program

2) Warrior Skills from Battle Drills

3) Situational Awareness Skills from the MCoE ASAT Program

Squad Training Continuum

Squad Training Continuum (1)



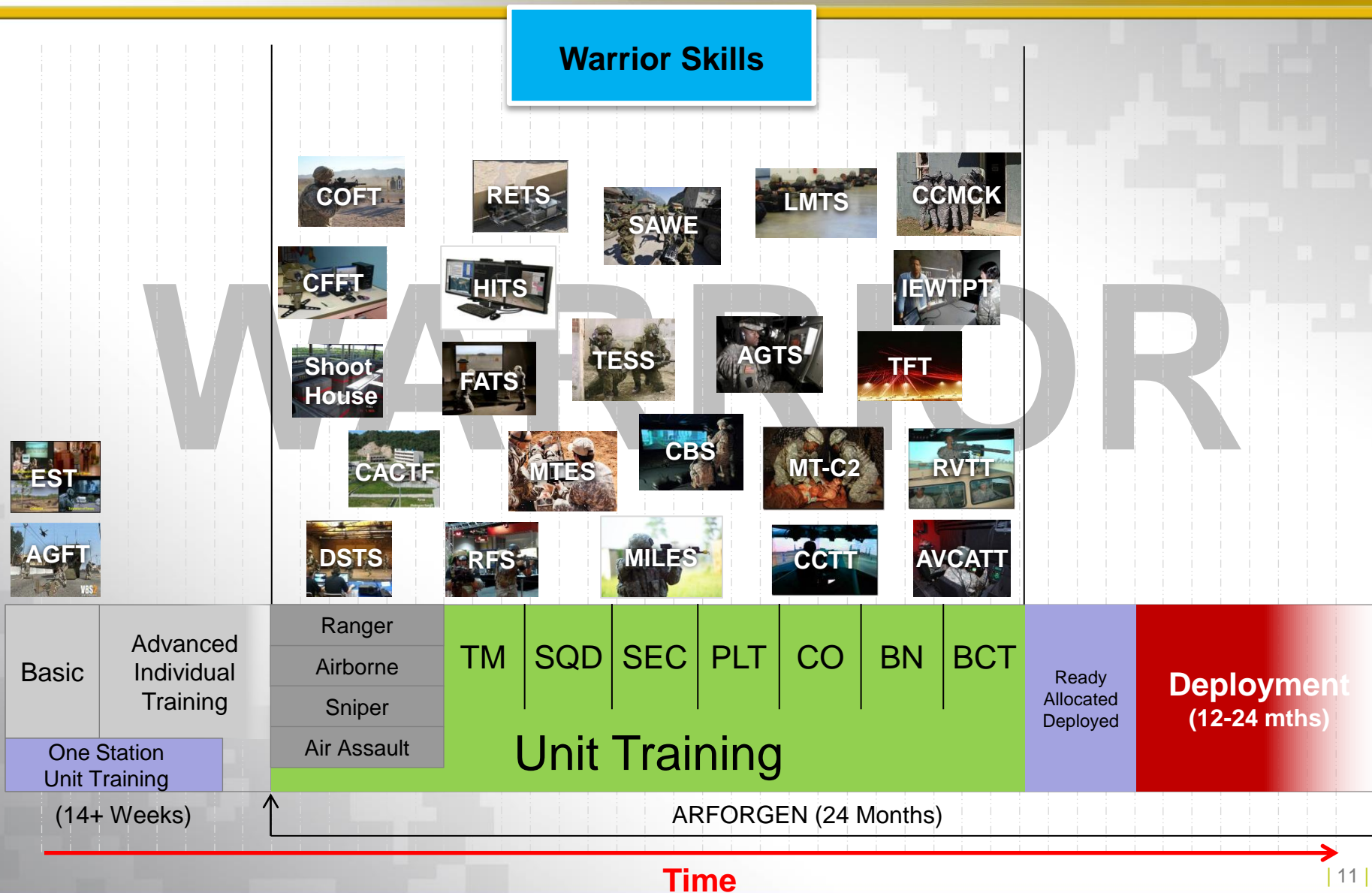
Typical Squad Training Cycle (diagram not to scale)

Training Cycle



Squad Training Continuum (2)

Warrior Skills



Existing Training Aids



Shoot House (SH)



Dismounted Soldier Training System (DSTS)



Engagement Skills Trainer (EST)



Army Games For Training (AGFT)



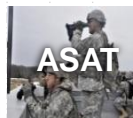
Combined Arms Collective Training Facility (CACTF)

Squad Training Continuum (3)



Resilience / Situational Awareness Training (Current)

COGNITIVE



Time

Technology Categories



Virtual Humans

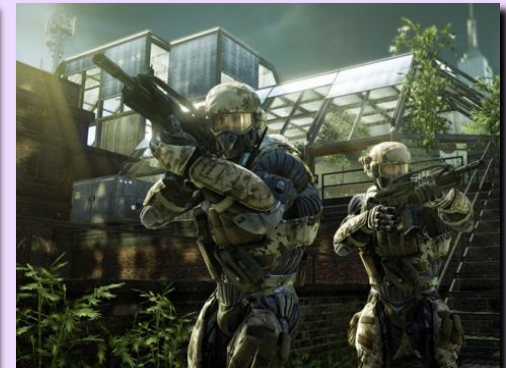


Graphic Realism

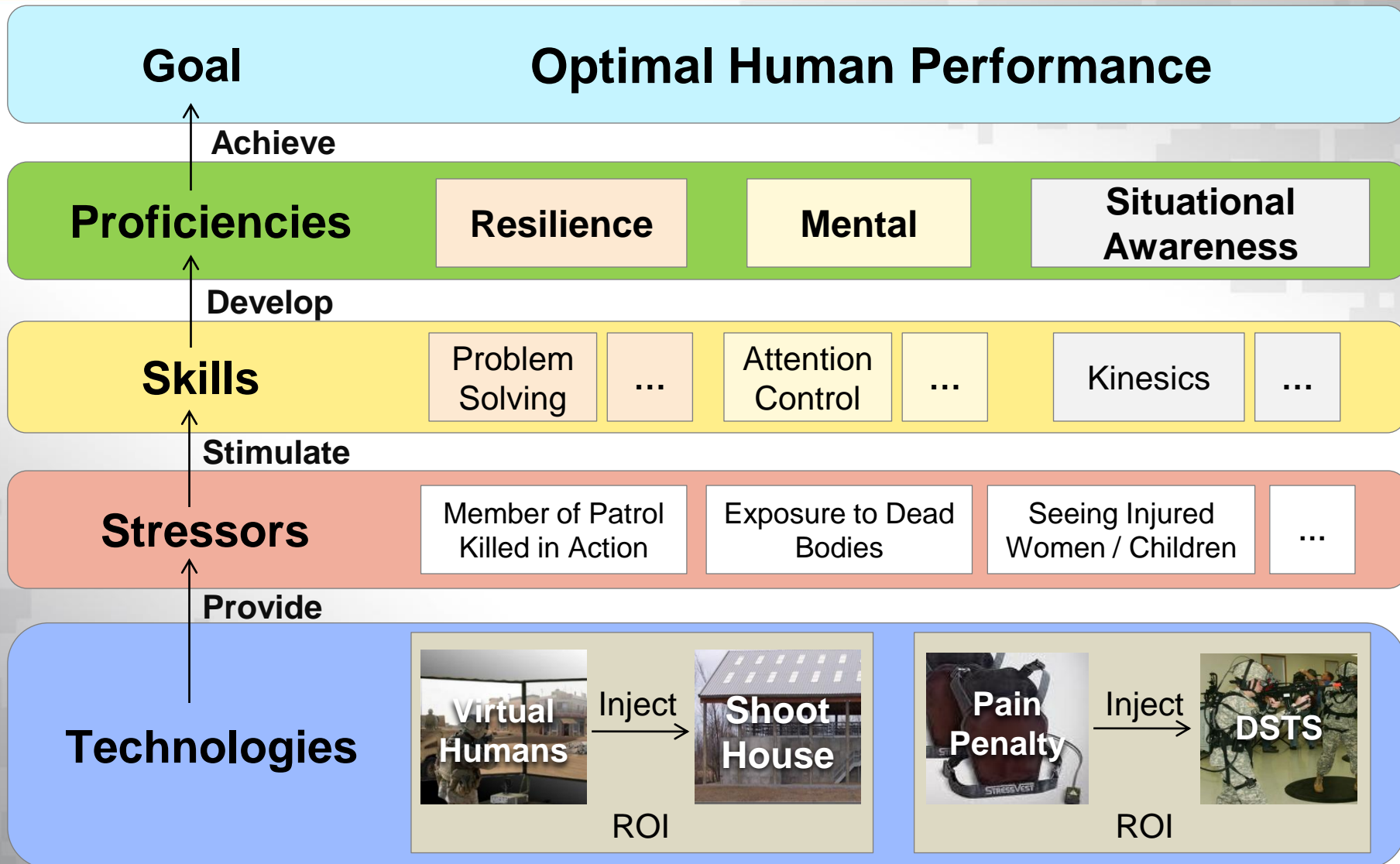
Smell



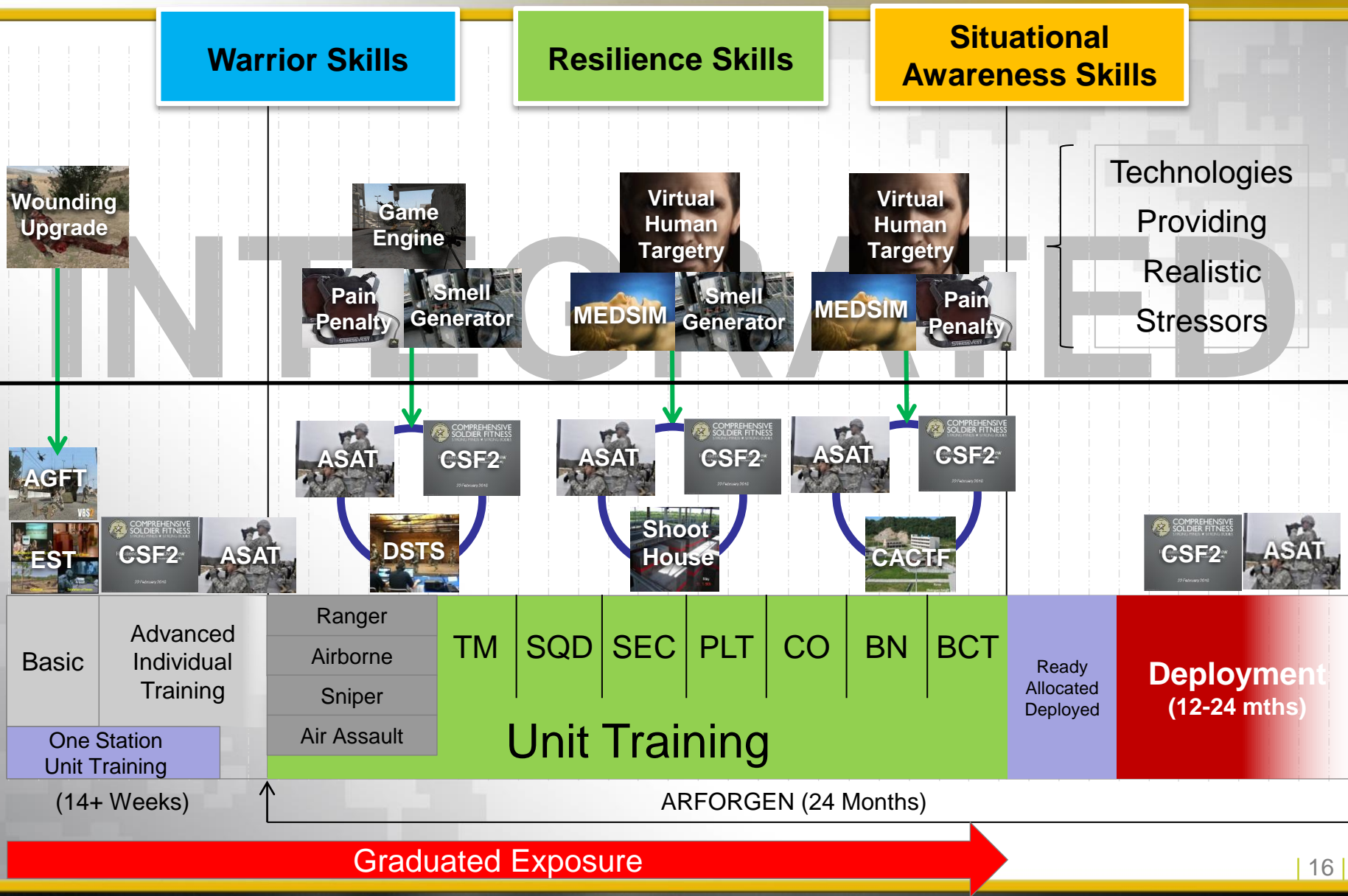
Pain



Ongoing Technology Return On Investment (ROI) Analysis



Squad Training Continuum (4) * Notional *



Squad Overmatch Study Team FY13 & FY14



UCF Institute of Simulation and Training &
USC Institute for Creative Technologies

Office of Naval Research



MCoE



MITRE

PEO STRI

ARI

ARL/HRED/STTC

PM TRASYS
(USMC)



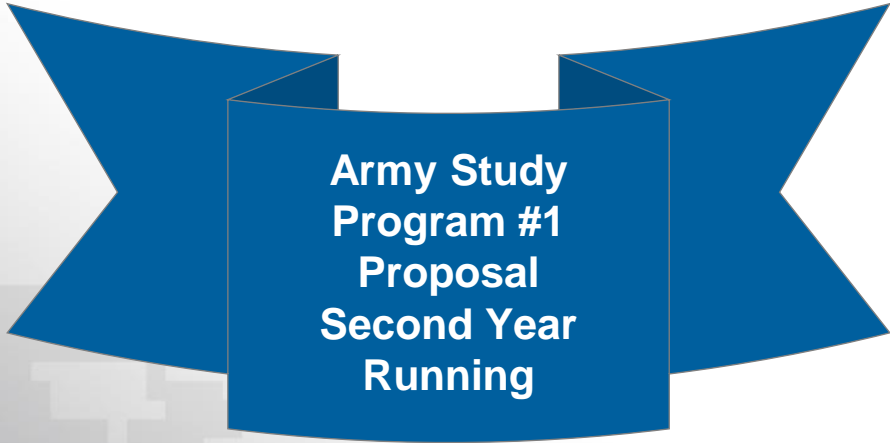
Walter Reed
AIR



FY13 Accomplishments



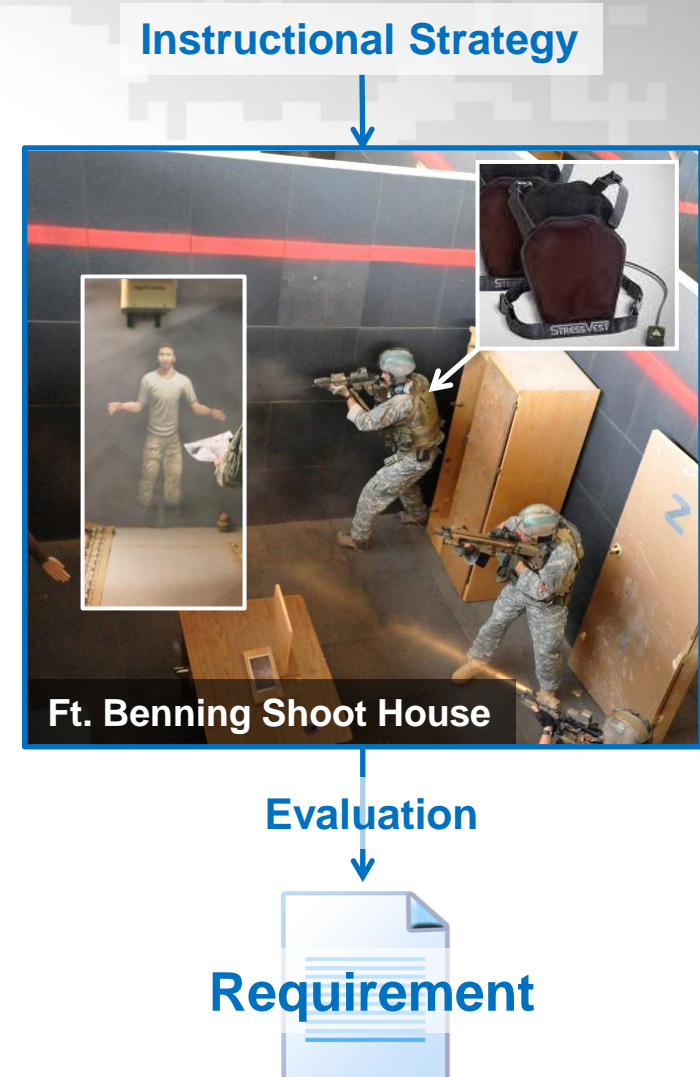
- ❑ Built the Squad Overmatch Study Team
- ❑ Developed Integrated Training Approach
- ❑ Identified gaps in current Programs of Record for Integrated Training
- ❑ Initial ROI analysis of technologies with respect to their capability to support Integrated Training
- ❑ Top priority Army Study Program for FY14



**Army Study
Program #1
Proposal
Second Year
Running**

FY14 Way Forward

- ❑ Develop instructional strategy and graduated exposure model
- ❑ Integrate technologies at Ft. Benning
- ❑ Conduct experimentation with squads
- ❑ Conduct effectiveness evaluation



Squad Overmatch Study Contact Info



For comments, questions, suggestions, contact:

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