



US Army Combined Arms Center
SOLDIERS AND LEADERS - OUR ASYMMETRIC ADVANTAGE

***Building and Maintaining Readiness to
Win in a Complex World***

Installations of the Future

MAJOR GENERAL MARIA GERVAIS
Director STE CFT Pilot & DCG, CAC-T



“ From wherever they may be located, home station, armories, institutions, or deployed locations we want our Soldiers to enter into a synthetic training environment that immerses them in diverse complex operational environments that replicate where they will fight; with who they will fight with; on the terrain they will fight on! The STE will provide the Warfighter the repetitions necessary to rapidly acquire and master the individual through BCT collective skills necessary to train to win in Multi-Domain Battle. The STE will ensure we maintain Training Overmatch”
MG Gervais, Deputy Commanding General, CAC-T





“As Is”

57 terrain formats

Concurrency challenges and not designed to meet compliancy directives

Facilities-based TADSS

High overhead and long exercise lead times

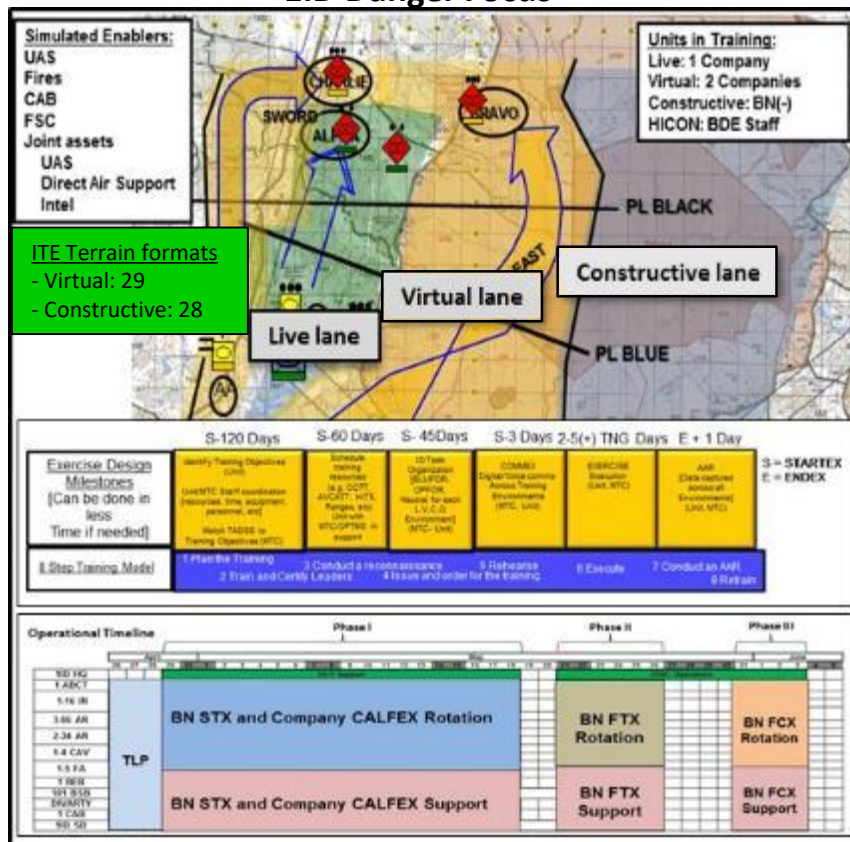
Stove pipe systems

Requires **increased resources**
for TADSS

Cannot replicate the Operational Environment

No Joint/UA integration

1ID Danger Focus



“To Be”

Common Synthetic Environment that fully enables Combined Arms maneuver in a multi-domain environment

Dynamic **one-world terrain**

Software-enabled updates

Less fixed infrastructure reliance – **point of need** delivery

Fewer **contractors**, less hardware, & **faster exercise design**

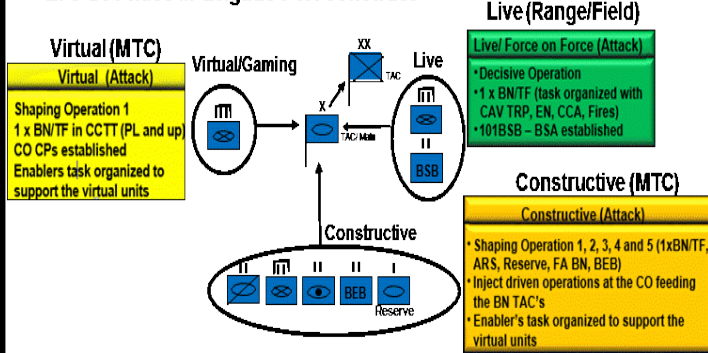
Reconfigurable trainers

Uses **ongoing commercial innovation**
for updates

Full replication of the Operational Environment

Joint and Unified Action (UA)
integration

LVC-IA Phase II: Brigade FTX construct



Simplify Process

Integration to Convergence

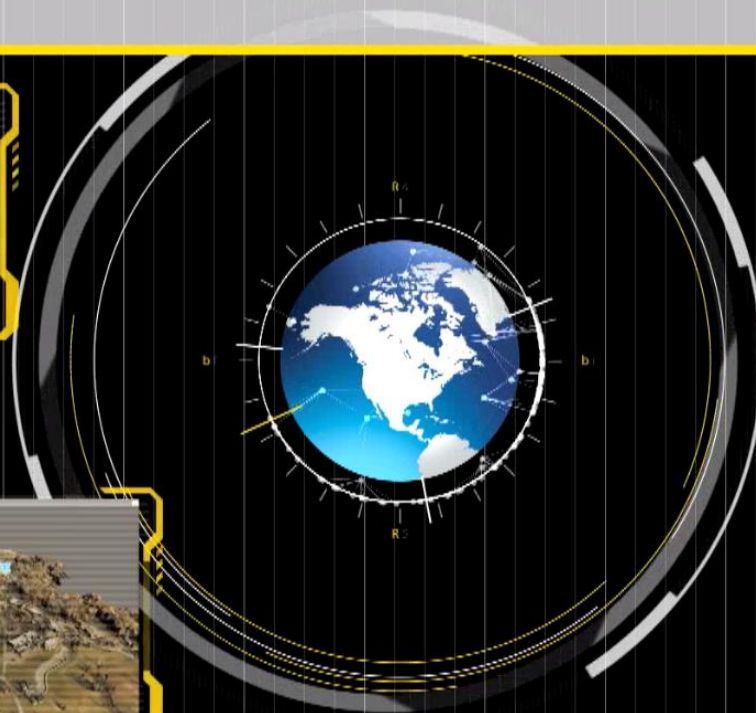




STE SYNTHETIC TRAINING ENVIRONMENT



LIVE



VIRTUAL



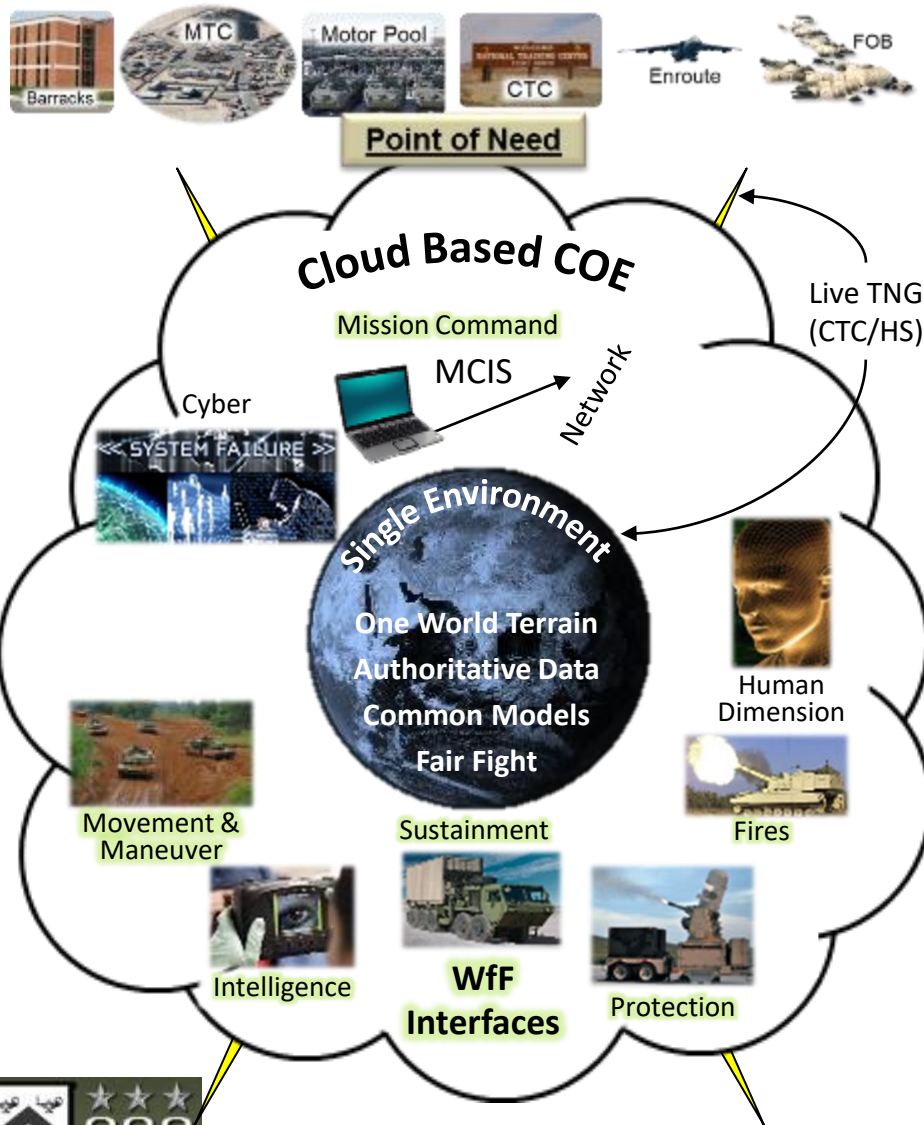
CONSTRUCTIVE

"Simulations will allow us to do hundreds of reps to build muscle memory and experience that we can't do live." GEN Milley, CSA

<https://youtu.be/DjGIEzCERR4>



STE



The STE will revolutionize training by modernizing our technologies, allowing us to:

- Execute collective combined arms, multi-echelon training, across all warfighting functions
- Train Mission Command BN TF, BCT through ASCC
- Replicate the full complexity of the operational environment
- Provide a common training environment that spans the three training domains (Operational, Institutional, and Self-Development)
- Replicate current and future force structure, weapons and effects, warfighting functions, JIM capabilities and near-peer capabilities



Discussion