U.S. Army Simulation, Training and Instrumentation Command

SG00-01-027

Mr. James M. Skurka

Deputy to the Commander

SG00-01-027

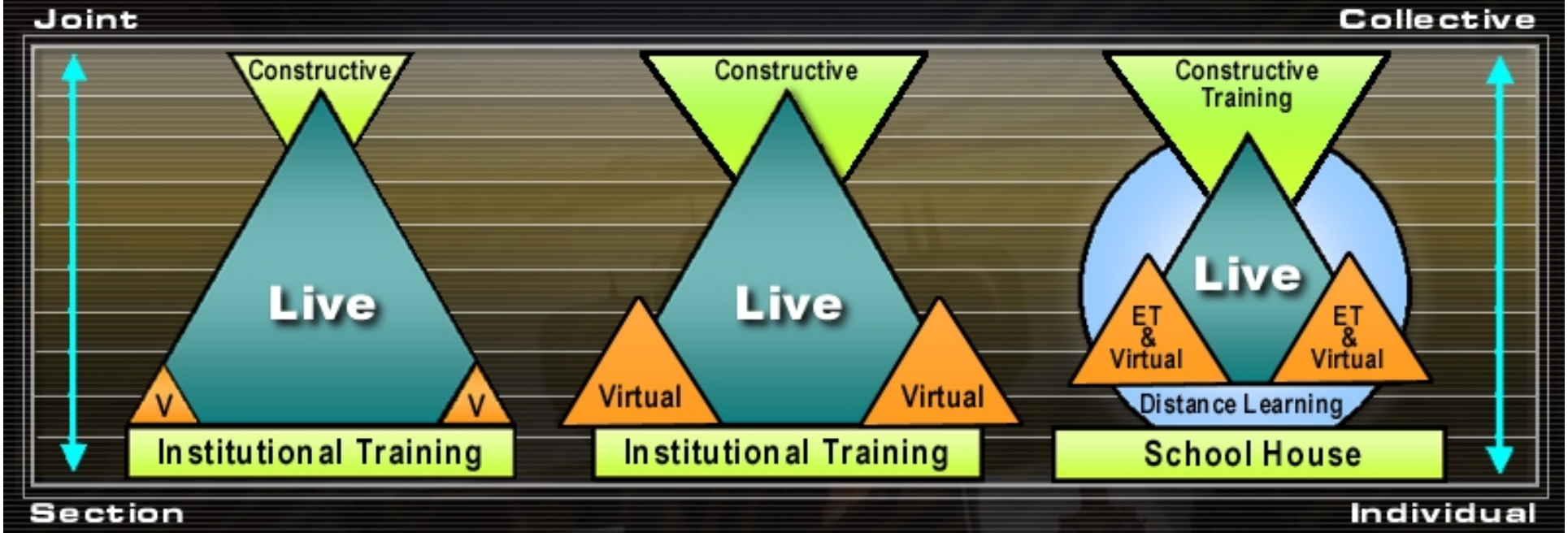
SG00-01-027

INTEGRATED TRAINING AND SIMULATION

SG00-01-027

THE 2ND TRAINING REVOLUTION

What is the right blend of training domains?



Yesterday → Today → Tomorrow

Yesterday

* Just in Case Training
* Robust Deployments
* Permissive OPTEMPO
* Limited Virtual Simulators

Today

* Just in Time Training
* Improved Virtual Simulators
* OPTEMPO Constrained

Tomorrow

* On Demand Training
* Constrained Live Environment
* Reduced OPTEMPO Using
* Embedded Training
* Distance Learning Benefits

SG00-01-027

ARMY TRAINING

OLD

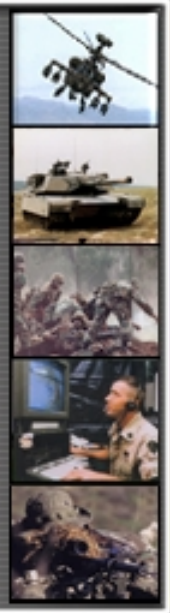
AVIATION → Stand Alone

ARMOR

INFANTRY

COMMUNICATIONS

NEW



Reconfigurable

- Common Terrain Data
- Image Generators
- Collective
- Significantly Less Logistics Cost
- Easy to Upgrade
- Less Cost to Upgrade

Goal

Achieve Collective, Combined Arms and Joint Training

SG00-01-027

MULTIPLE PLATFORMS

Achieve Aircraft Concurrency

Employ Common:
- √Image Generator
- √Database

Achieve Local/ Longhaul Networking

Achieve Collective Combined Arms & Joint Training

CURRENT

IN DEVELOPMENT

STAND ALONES

IMPROVED
- Mission Planning
- Mission Rehearsal
- Readiness

AVCATT

IMPACTS
- Reduced WCLS
- Easy to Upgrade
- Interoperable

Individual Training - Nov,99 → 19 Months - June, 07 → Collective Training

SG00-01-027

PROTOCOLS – INTEGRATION – LINKING – LEVERAGING – STANDARDS

"... There are no systems that fight alone on the modern battlefield, therefore, we must train as we fight..."

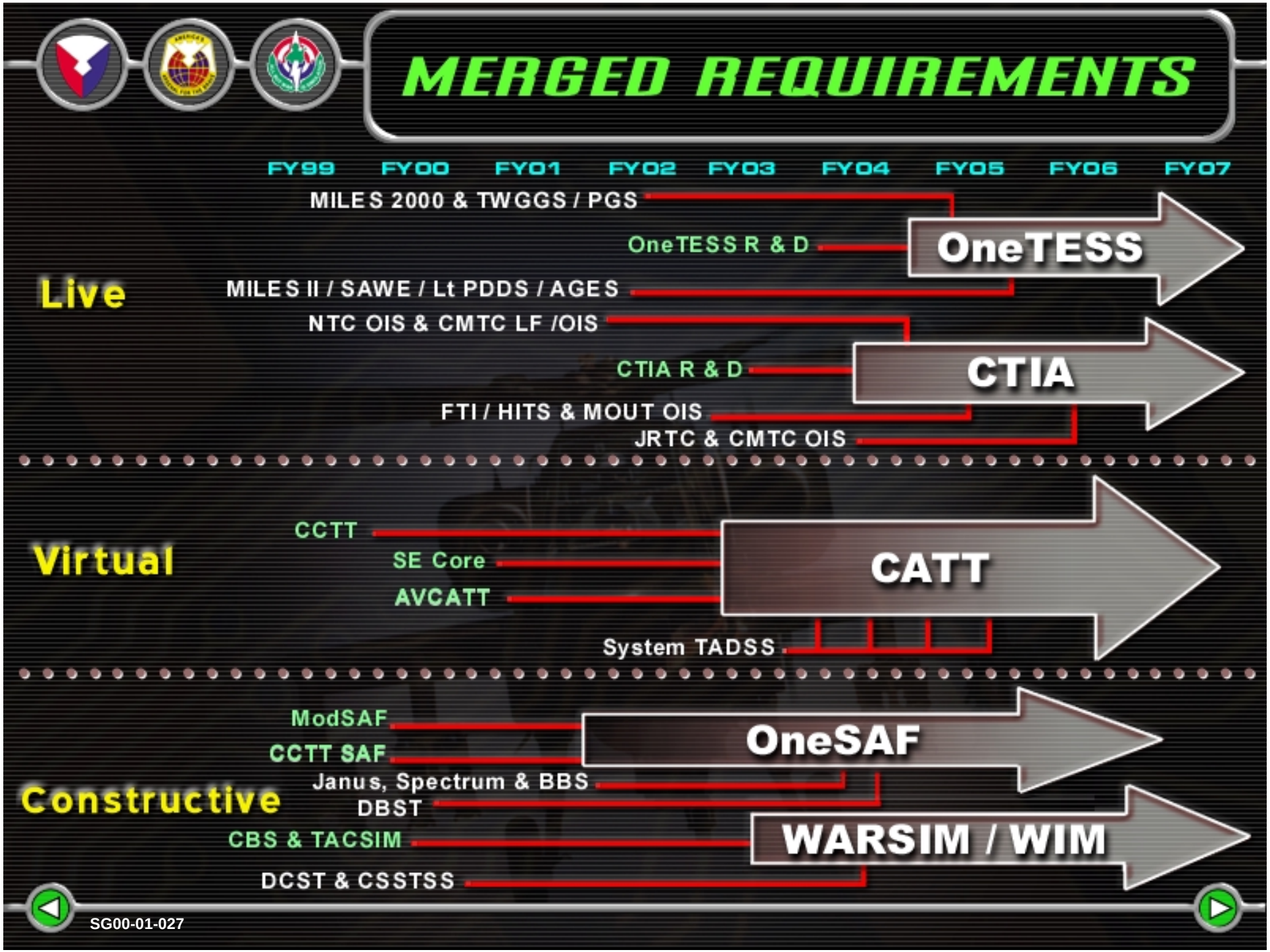
Joint Constructive Training
Joint Simulations Systems (JSIMS)

LIVE | VIRTUAL | CONSTRUCTIVE

Collective Training | Equipping Assets for Live Training | Warfighting Experiments
Force on Force Traing Centers | Computer Based Training | Simulation Based Acquisition
Individual - Crew Training | Networked Training | Digital Training Library | Embedded Training

Logistics Enhancements in Real Time

MERGED REQUIREMENTS



SG00-01-027

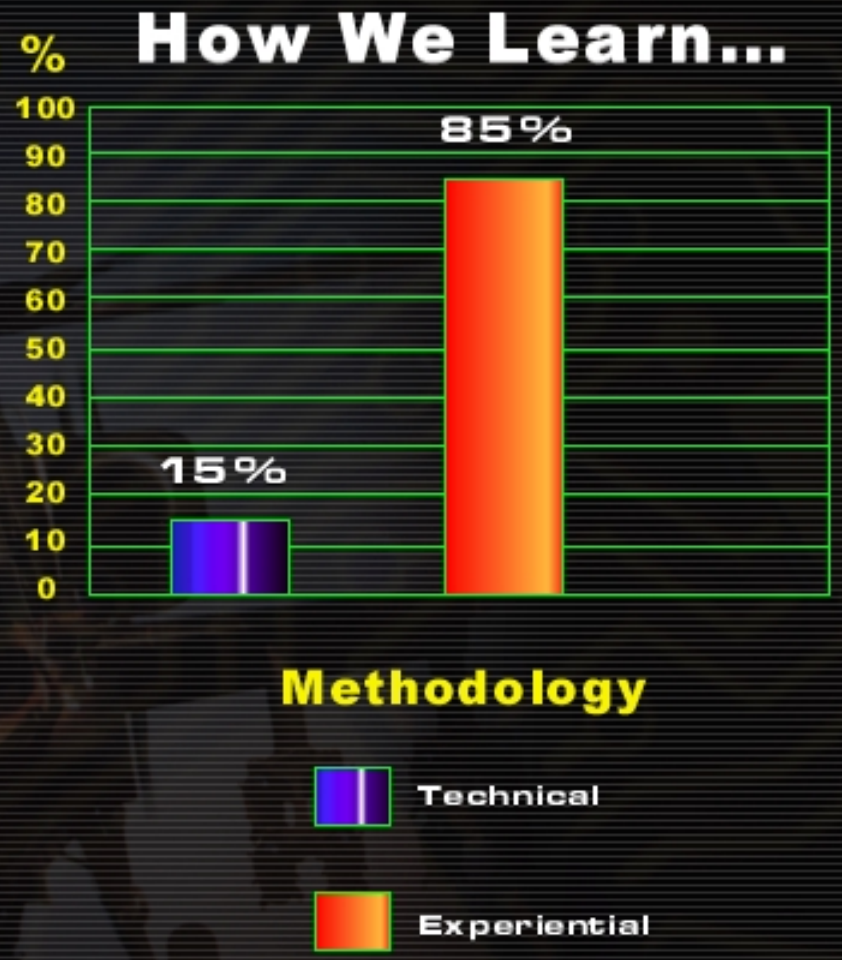
INFORMATION AGE NETWORKS

$1,000 Buys $1 Million 1965

$200 Buys $3 Billion 1997

- The sum of a network increases as the square of the members.
- Additional units add value to each existing unit.

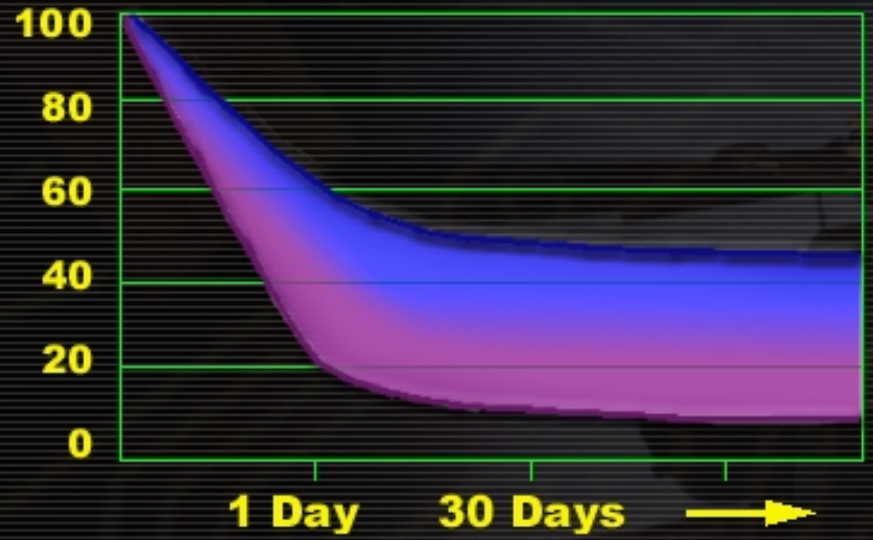
OBSERVATIONS ABOUT LEARNING . . .



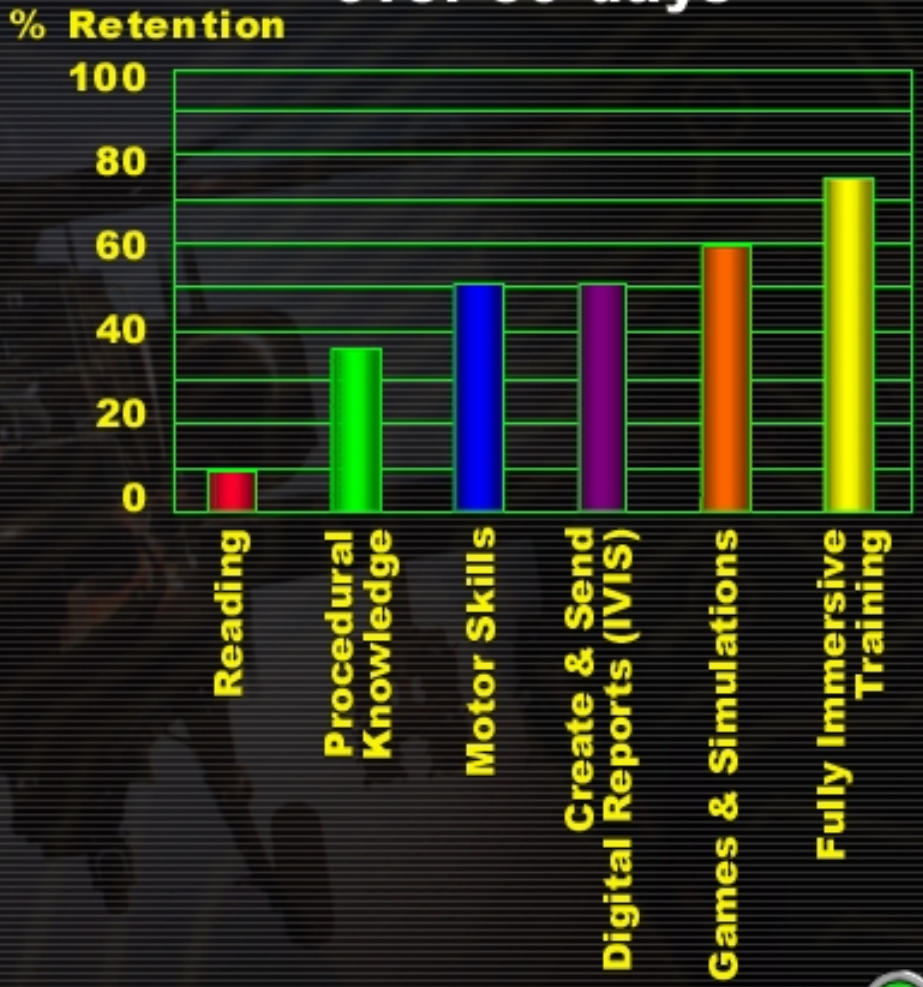
SG00-01-027

OBSERVATIONS ABOUT MEMORY

What We Remember...

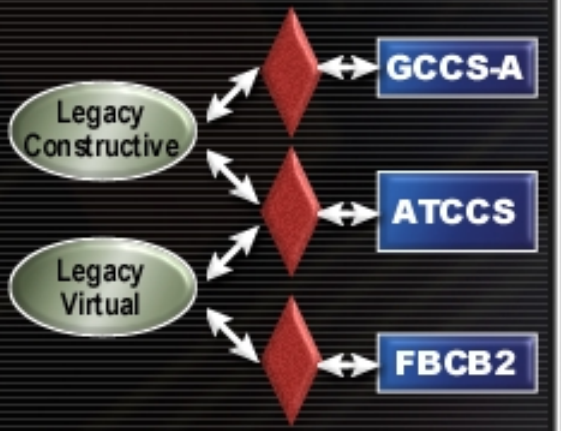


What We Remember... over 30 days



WHERE WE ARE NOW AND WHERE WE NEED TO GO

NEAR TERM
Legacy

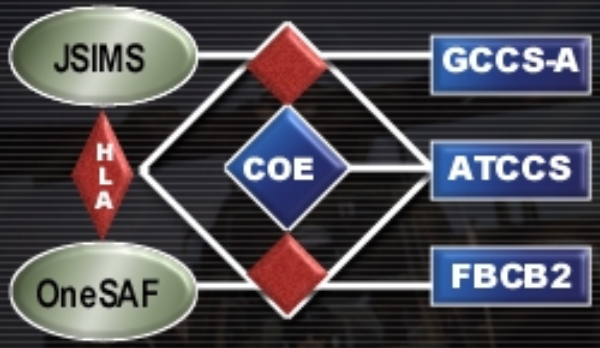


- Message Based
- Black Box Link
- Custom Point to Point
- Limited 2-Way Feed
- Sims Initialize C4I
- Sims Update C4I

Messages

2001

MID TERM
WARSIM and OneSAF IOCs

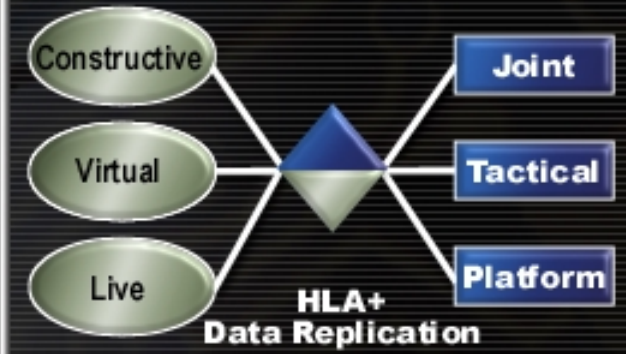


- JCDB and CMP Based
- Consolidated Interfaces
- 2-Way Feed
- Sims or C4I Initialize
- Sims Update C4I
- Common Standards

Both

2004

FAR TERM
FOC to AAN



- Common Databases
- Implicit Interoperability
- Full 2-Way Exchange
- Internal "Black Box"
- Plug and Play L/V/C & C4I

Database

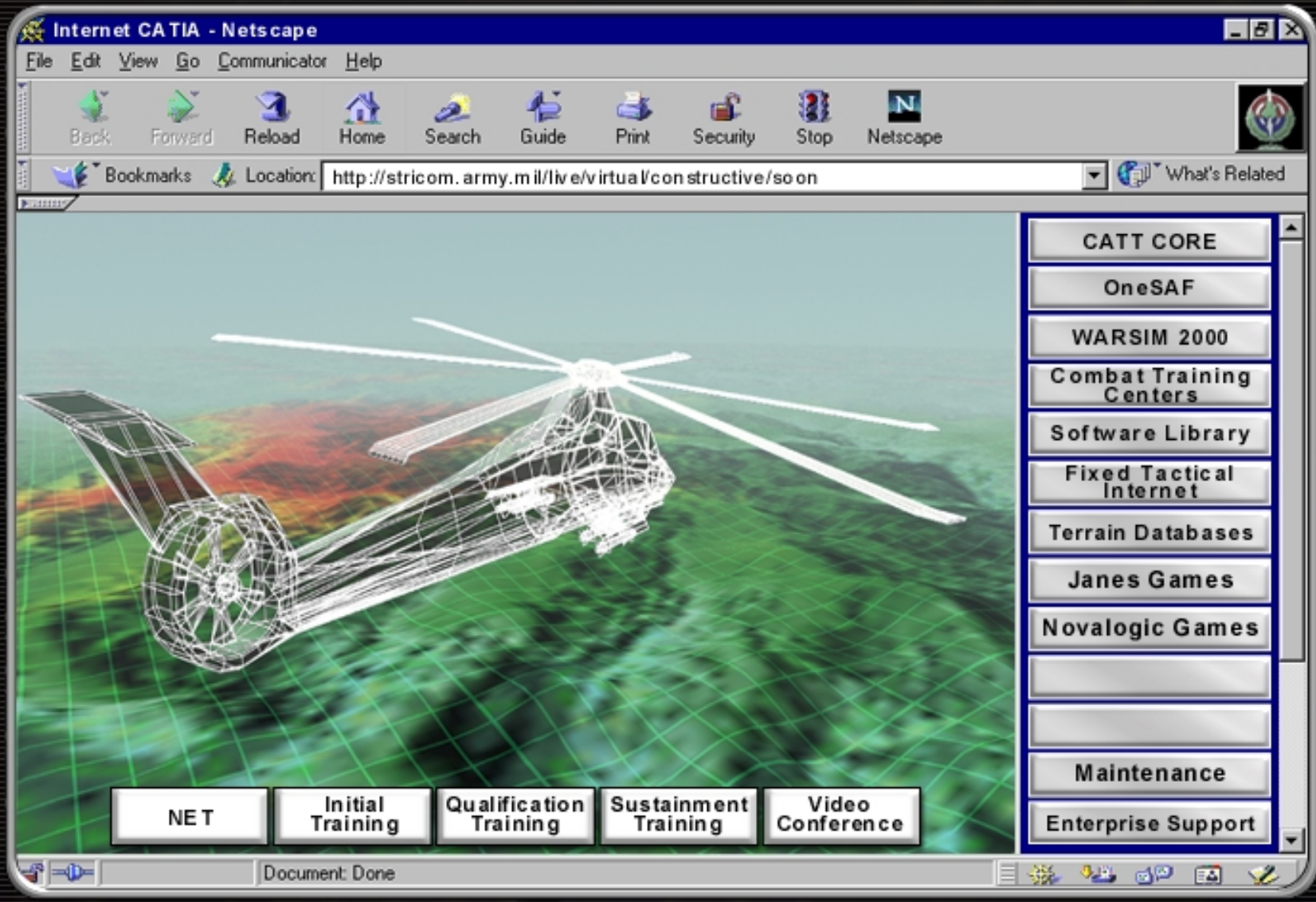
SG00-01-027

THE SIMCI PARADIGM

When it comes to M&S to C4I Interfaces . . .

". . . Even the Best Translator is Still a Bad Idea . . ."

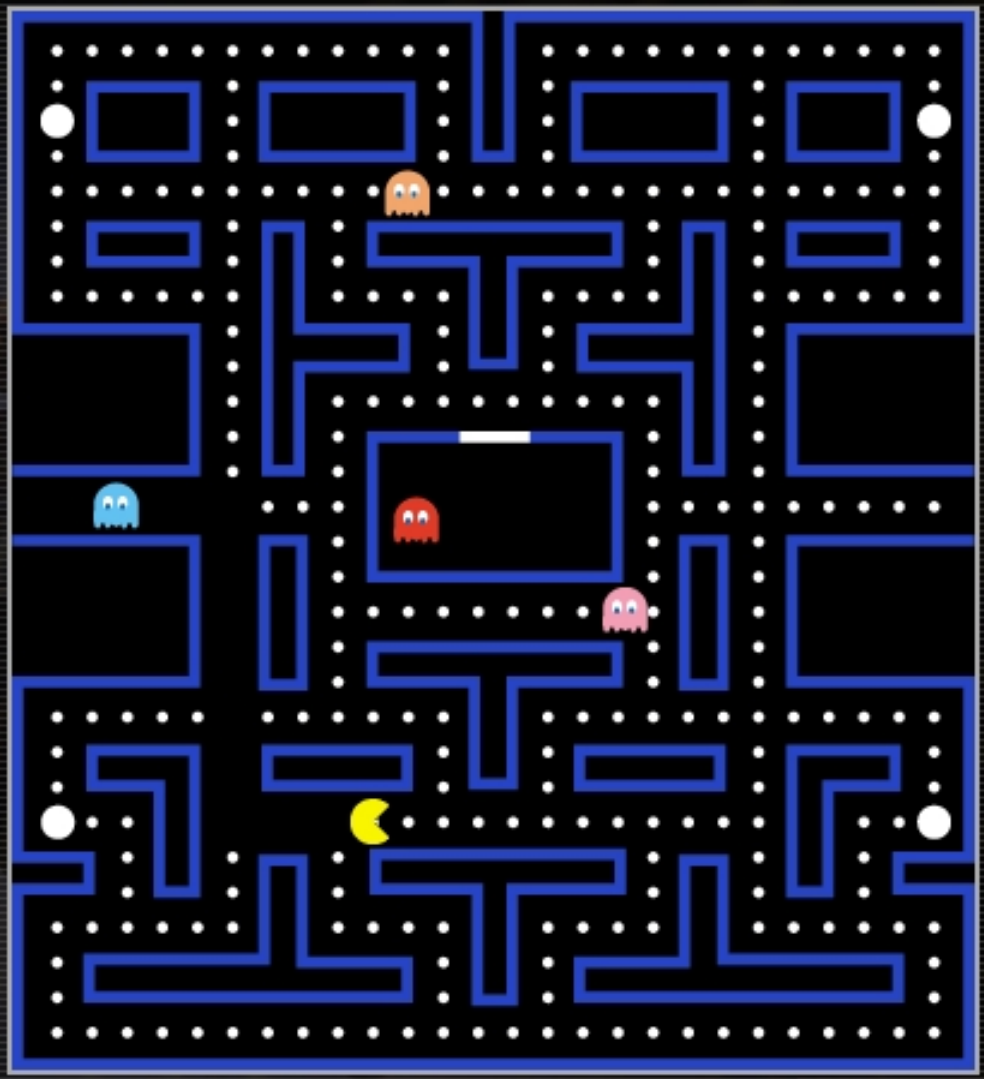
EVOLVING THE WAY WE TRAIN



SG00-01-027

IT'S NOT PACMAN ANYMORE

PAC-MAN



Novalogic Video Here

SUMMARY

Reduce errors on the battlefield

Improve ability to deal with unexpected events

Improve communications

Improve situational awareness

Improve interaction among crew members

Create experienced decision makers