



DSMC

***Defense Systems
Management College***

**Presented by
Brigadier General (P) William L. Bond**



America's Arsenal for the Brave



Tank-Automotive and Armaments Command



Industrial Operations Command

Soldier & Biological Chemical Command

Communications - Electronics Command

Army Research Laboratory



Aviation & Missile Command

Security Assistance Command

Simulation, Training & Instrumentation Command



STRICOM - One of eight major subordinate commands of AMC

NEXT



Team Orlando

Army Simulation, Training & Instrumentation Command
(479 Employees)

Naval Air Warfare Center Training Systems Division
(1,026 Employees)

NASA / Kennedy Space Center
(2,500 Employees)

Marine Corps Program Office
(23 Employees)

Industry
(16,000 Employees)

Air Force Agency for Modeling and Simulation
(57 Employees)

University of Central Florida and Institute for Simulation and Training
(100 Employees)

United States Coast Guard
(1 Employee)

Joint Simulation System
(35 Employees)

Army Research Institute
(17 Employees)

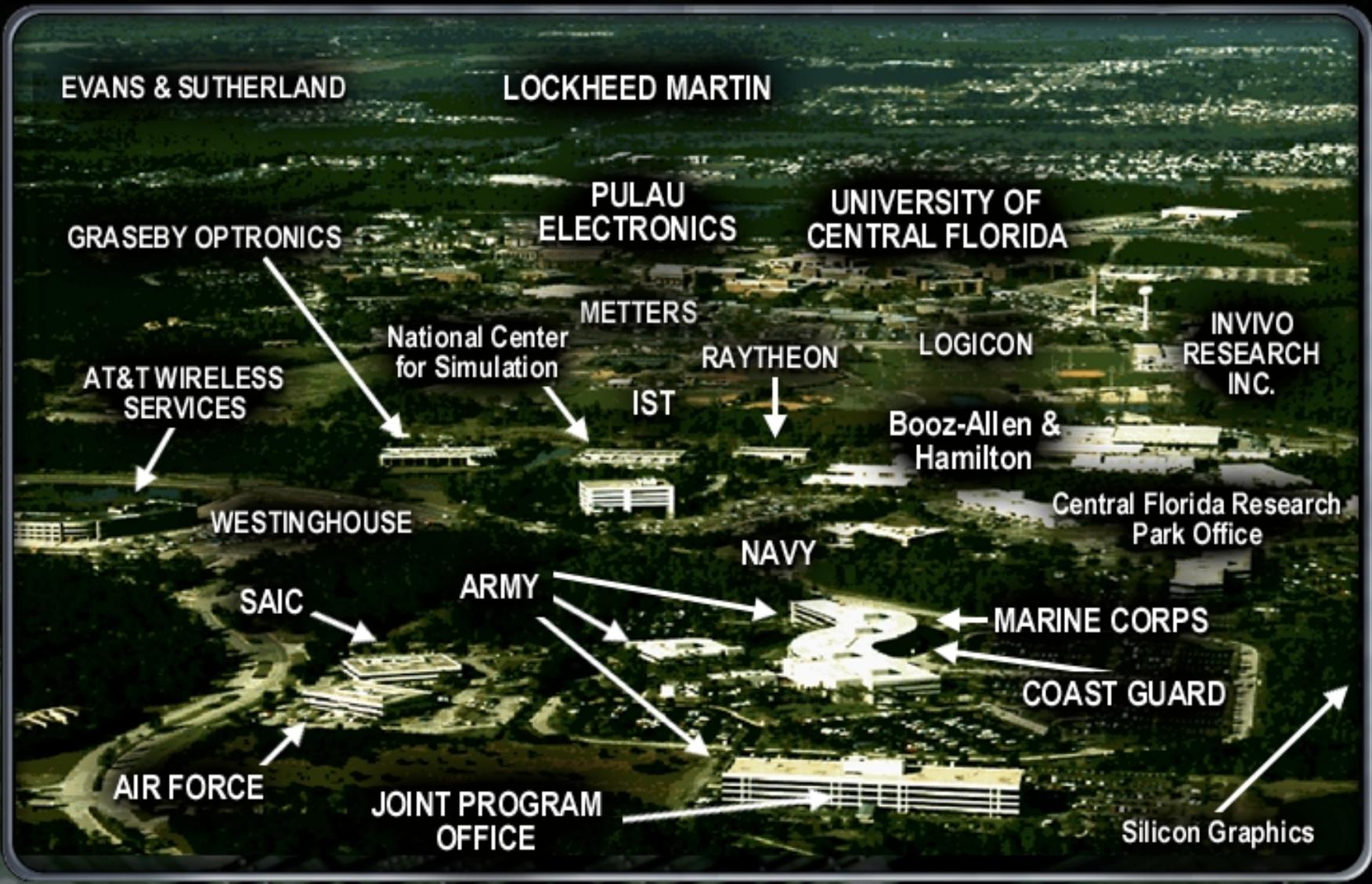


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National Center of Excellence for Simulation



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Our Program Portfolio

160
PROGRAMS



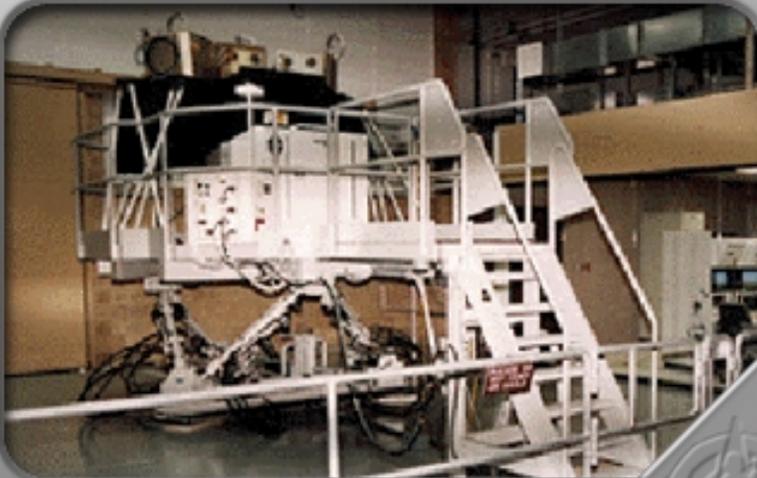
STRICOM
COMMANDING GENERAL

BG WILLIAM L. BOND

- Systems Training Devices
- Non-System Training Devices
- Combined Arms Tactical Trainer
- Constructive Simulations
- CTC Instrumentation
- CTC Systems
- Test Instrumentation
- Threat Simulators
- Targets
- Science & Technology Base
- Core DIS Facilities



Our Program Portfolio



**TANK DRIVER TRAINER
(TDT)**



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Our Program Portfolio



**MULTIPLE INTEGRATED
LASER ENGAGEMENT
SYSTEM (MILES 2000)**

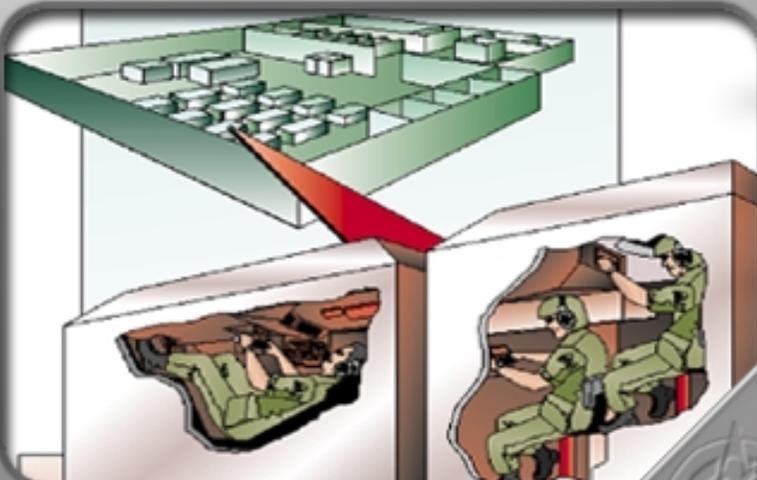


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Our Program Portfolio



**CLOSED COMBAT
TACTICAL TRAINER
(CCTT)**



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Our Program Portfolio



**WARFIGHTERS'
SIMULATION 2000**



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Our Program Portfolio



**MILITARY OPERATIONS
ON URBAN TERRAIN
(MOUT)**



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Our Program Portfolio



CTC OPFOR



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Our Program Portfolio



**MOBILE AUTOMATED
INSTRUMENTATION
SUITE (MAIS)**



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Our Program Portfolio



**COMMAND, CONTROL
AND COMMUNICATION
(C3 SYSTEM)**



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Our Program Portfolio



**MQM-107
"STREAKER"
AERIAL TARGET**

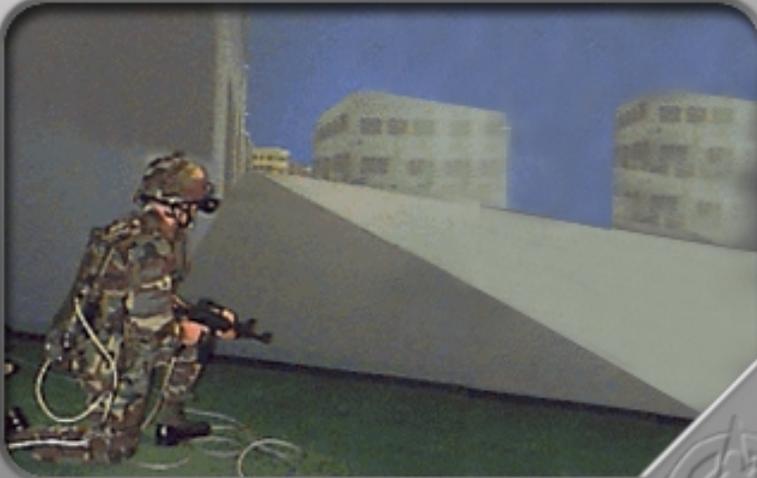


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Our Program Portfolio



DISMOUNTED SOLDIER SYSTEM (DSS)



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Our Program Portfolio



**MANEUVER TEST BED
(FT. KNOX)**



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STRICOM Organization

Commanding General
BG William L. Bond

Deputy to the Commander
Mr. James M. Skurka

Chief of Staff
COL James B. Godwin

Chief Scientist
Dr. Michael Macedonia
 Principal Deputy for Acquisition
Vacant
Chief Counsel
Mr. Harlan Gottlieb

Product Manager (PM) for Simulation Technology Integration (STI)
LTC Stephen Rust

Director for Command Analysis and Planning (CAP) Office
Mr. Jerry Stahl

Director for Engineering
Mr. Ed Trier

Director for Logistics
Mr. Dave Manning

Director for Resources
Ms. Jo Ann Hathaway

Project Manager (PM) for Training Devices (TRADE)
COL Craig Hanford

Project Manager (PM) for Combined Arms Tactical Trainer (CATT)
COL Wells Barlow

Project Manager (PM) for Warfighters' Simulation 2000 (WARSIM)
COL Charles Ball

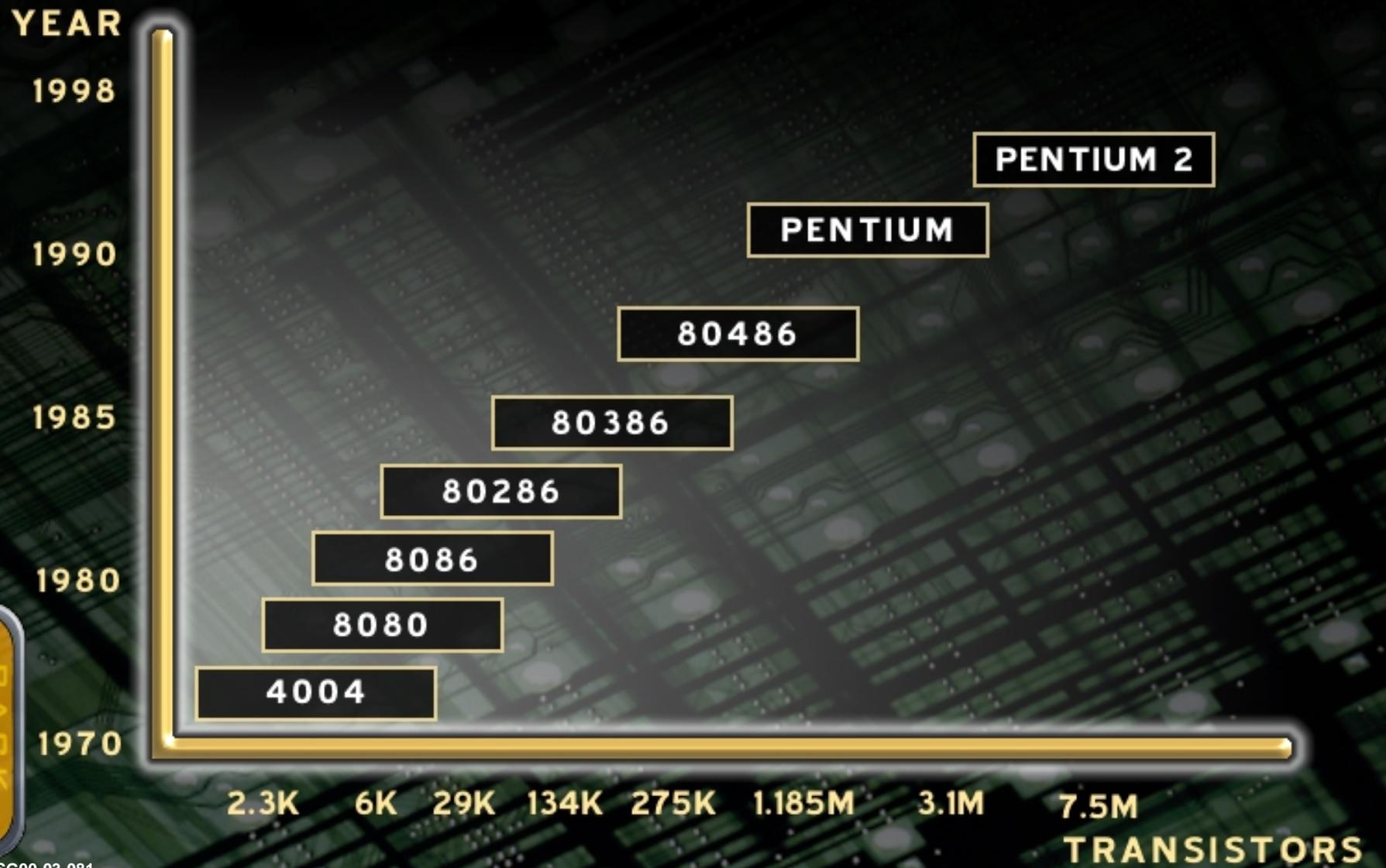
Project Manager (PM) for Instrumentation, Targets and Threat Simulators (ITTS)
COL Mark Russell

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Where We Were



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TRANSISTORS



Where We Are

• CURRENT STATE

- The pace of technological development has not slowed, and it will not.
 - Moore's Law - Computing power doubles every 18 months
 - Gilder's Law - Communication bandwidth triples every 18 months

• ADVANTAGE

- It will permit us to do things better than our opponent;
 - First
 - Farther
 - Fastest

• STAY THE COURSE

- Those who can control the flow of knowledge will be advantaged.
 - Information itself will not be important however,
 - The architecture and infrastructure for its collection, processing, and distribution will be critical.



Where We Are Going

- **Battlefield will have no boundaries**
- **Global Extension of Situational Awareness**
- **Tomorrow's Warfighter will become familiar with Future Warfare as no one has seen it today**
- **A Warfighter of tomorrow will operate weapon systems that he can't see, hear, or smell.**

If we should have to fight, we should be prepared to do so from the neck up as well as from the neck down.



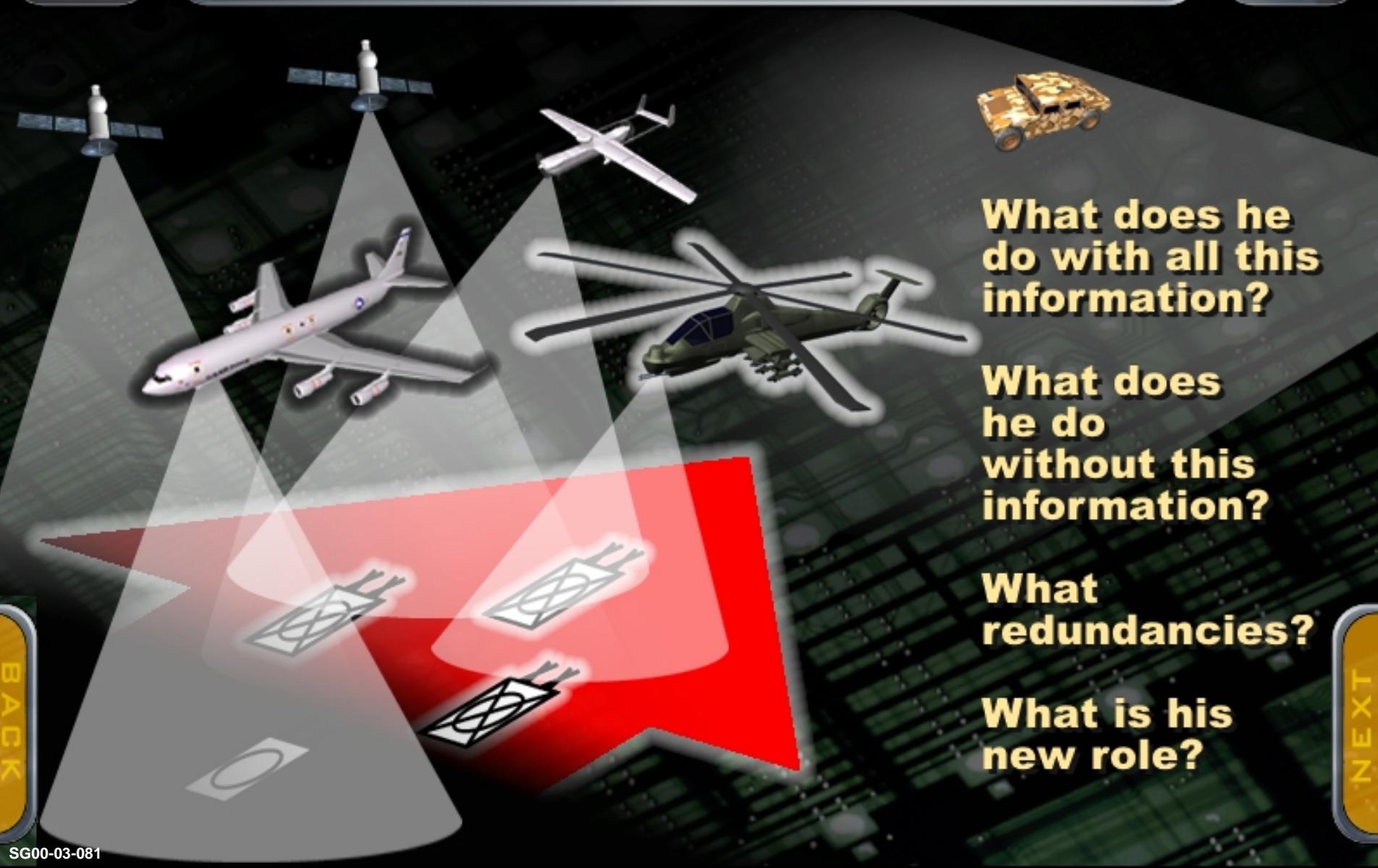
Digitization

- **Information Dominance**
- **Situational Understanding**
 - **Where am I**
 - **Where are my friends**
 - **Where is the enemy**

Reduces Time
Increases Effectiveness
Act Before the Enemy



Situational Understanding



What does he do with all this information?

What does he do without this information?

What redundancies?

What is his new role?

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Leveraging Digitization

Exploring New Synergisms



Constructive Simulation

Virtual Simulation

Live Simulation

Future SMART Domain

Battalion/Joint

Enabled by Additions to Future SMART Product Mix:

- Course of Action Analysis/Mission Rehearsal for Contingency Forces
- Common Training Instrumentation for CTCs, Home Station, and Deployment
- Large-scale Live and Virtual MOUT
- Web-based Distributed Learning and Collective Training
- Embedded Simulation and Training
- Fixed Tactical Internet
- Commercial Military Game Adaptations

Company/Joint

Current SMART Domain

Collective and Combined Arms

Crew

Individual

How to Leverage what digitization brings to the battlefield

Training/Combat Effectiveness

Resources (Time & Money)

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Simulation Based Acquisition



DIGITIZING THE ACQUISITION PROCESS

- **COMMON SYNTHETIC DEVELOPMENT**
- **MODELING AND SIMULATION STANDARDS**
- **MORE PARTNERING AND SHARING BETWEEN GOVERNMENT, INDUSTRY AND ACADEMIA**
- **MORE SHARING AND REUSE ACROSS DOMAINS**
- **CONCURRENCY IN DEVELOPMENT, TESTING AND TRAINING**

Interoperability

Ideal goal is common synthetic environment

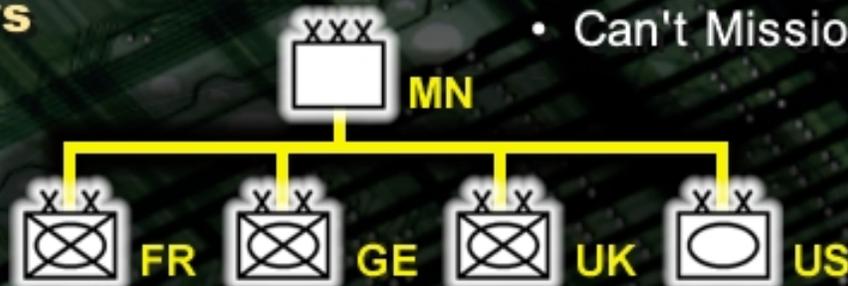
- **Life Cycle Employment**
 - Operational Concept
 - SMART
 - Simulation Based Training
- Simulation Based Enhancement

Needs to be done at two levels **WHY?**

- **National**
 - Most Nations Operate in Coalition
 - Increased Cooperative Ventures - Cost/Political Considerations
- **International**
 - Future Cavalry Scout Vehicle/Tracer (US/UK)
 - Warfighter's Simulation (US/GE)
 - Close Combat Tactical Trainer (US/UK)

Those who do not become interoperable risk becoming second class partners

- Can't Train Together
- Can't Mission Rehearse





Joint Simulation System (JSIMS) Mission



JSIMS is a simulation system that supports the twenty-first century warfighter's preparation for real world contingencies.

The system provides garrison and deployed exercise capability to meet current and emerging training and operational requirements in a timely and efficient manner.



User's Guidance

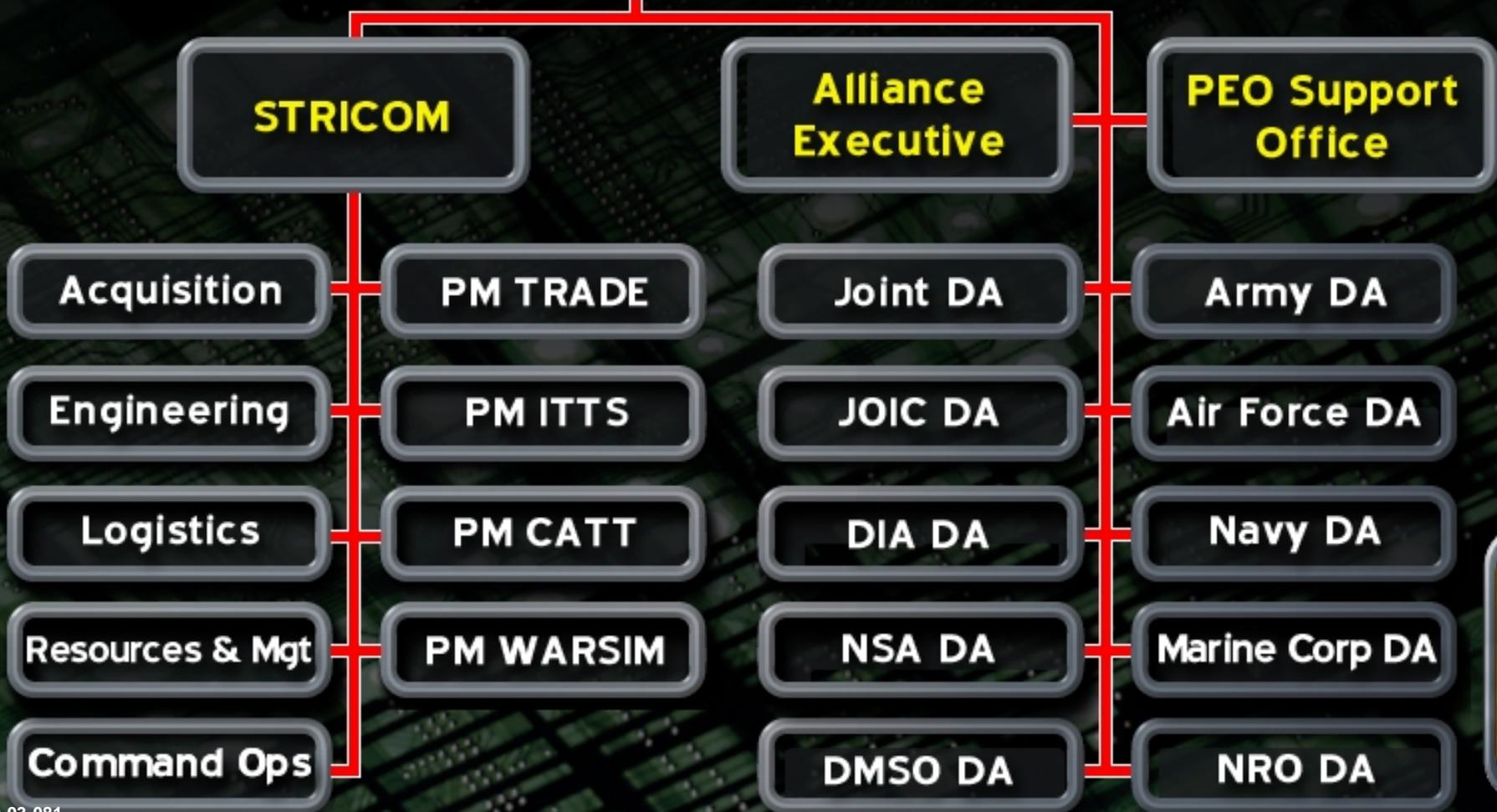


- **User involvement in the development process is essential to ensure usability and functionality**
- **Plan for frequent demonstrations and validation events**
- **Allocate sufficient resources for training and support**



STRICOM/JSIMS Organization

Commander STRICOM / PEO Joint Simulation System



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JSIMS Current Program Challenges



- SRB findings concluded, “immediate change must be made to prevent JSIMS from entering an unrecoverable death spiral.” SRB will implement the following actions and provide an updated cost, schedule, and performance status in APR 00.
 - Immediate transition to HLA
 - Implement management restructuring - revised MOA NLT APR 00
 - Rebaseline program
 - Revised management structure
 - Departmental commitment
- PEO findings:
 - The current program is unexecutable
 - The acquisition program baseline is breached
 - The IOC will likely slip at least 11 months



Working With the Gaming Industry



- **REALISM**
- **QUICK-TIME IMMERSION**
- **EMBEDDED SIMULATION/TRAINING**
- **DUAL-USE**
- **MINIATURIZATION/PC BASE**



New Way of Doing Business

PEO'S
PM'S
TRADOC
CINCS
FORSCOM
FMS
Other Sources

DCSOPS
DUSA(OR)
SARDA
DMSO
AMSO

DDR&E
ARPA

ATSC
NET Training
Institutional Training
Constructive Training
Live Training
Collective Training

**Leverage off
each other**

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U.S. ARMY STRICOM

SIMULATION, TRAINING AND INSTRUMENTATION COMMAND
COMMANDER: BRIGADIER GENERAL(P) WILLIAM L. BOND

STRICOM provides the Army with training devices, simulations, simulators and instrumentation for both training and testing. STRICOM's products and the products of its subordinate agencies have been training Soldiers, Sailors, Airmen and Marines for over 50 years.

STRICOM NEWS (9/17/99)

• **Virtual Reality Modeling Language (VRML): Take a look at where 3-D on the web is heading. Applicable to distributed collaborative development, distance learning and concept visualization. ([more information](#))**

FEATURED PRODUCT IEWTPT



<http://www.stricom.army.mil>

Cool Tech

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