Army Modeling and Simulation
Past, Present and Future

Executive Forum
for
Modeling and Simulation

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May 30, 2001
SMART is a process in which we capitalize on Modeling and Simulation (M&S) technology to address the issue of system development and lifecycle costs through the combined efforts of the requirements, training and acquisition communities. SMART is a process in which we capitalize on Modeling and Simulation (M&S) technology to address the issue of system development and lifecycle costs through the combined efforts of the requirements, training and acquisition communities.
Training Simulation: Past to Present

SCOPES/REALTRAIN
1971

MILES
1976 to Present

National Training Center
1982 to Present
SMART is a process in which we capitalize on Modeling and Simulation (M&S) technology to address the issue of system development and life-cycle costs through the combined efforts of the requirements, training and acquisition communities.
“Be a world leader in Modeling and Simulation to continuously improve Army effectiveness through a disciplined collaborative environment in partnership with industry, government, and academia.”

Larry R. Ellis
Lieutenant General, GS
Deputy Chief of Staff for Operations and Plans

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Lieutenant General, GS
Military Deputy to the Assistant Secretary of the Army (Acquisition, Logistics and Technology)

Walter W. Hollis
Deputy Under Secretary of the Army (Operations Research)

3 November 1999
Flagship Programs

- **Apache** poised to re-assess basic load, capitalize on product improvements to re-engineer logistic support
- **Crusader** program operates within an Integrated Digital Environment that links the Program Management Office, Contractor, Research Center, assorted test ranges, and other activities
- **CCTT** can be Employed to Explore Doctrine and TTP for Future Systems to Influence Final Design
- **Future Scout Cavalry System** ideally poised to benefit from M&S and Systems Engineering
Modeling and Simulation Are Essential to Field the Objective Force In This Decade

- Design Faster
- Collaborate Easier
- Explore Alternative Designs
SMART is the enabler to allow the Army to complete the Transformation process within the established timelines. Coordination has been conducted to incorporate 45 of the 51 tasks in the SMART Execution Plan into the Transformation Campaign Plan.
AMC RDEC Federation

AMC-wide Distributed M&S Collaborative Environment
M&S Integration and Interoperation Across RDECs

RDEC M&S Commodities distributed over multiple, heterogeneous platforms

Design

Evaluate

Collaborate

SimServer
ISTI

SimClient
Anywhere

SimServer
SMART

SimClient
NVTherm
CECOM/NVESD

SimClient
NGPM
CECOM/RDEC

SimServer
MP-ERM
TACOM/ARDEC
SMART Collaboration With Entertainment Industry/Academia

- Immersive Environments
- Urban Environment Simulation
- Stability and Support Operations Simulation
Training Simulations:
The Future

- System Embedded Training
- Use of Hollywood Concepts to Create Immersive Training Environments
Facing the Future... Together