M&S for the Marine Corps of Tomorrow

Briefing to DMSO Industry Day

"Exploit the opportunities presented by the increasing capabilities of simulations to increase warfighting capability."

CMC FRAGO

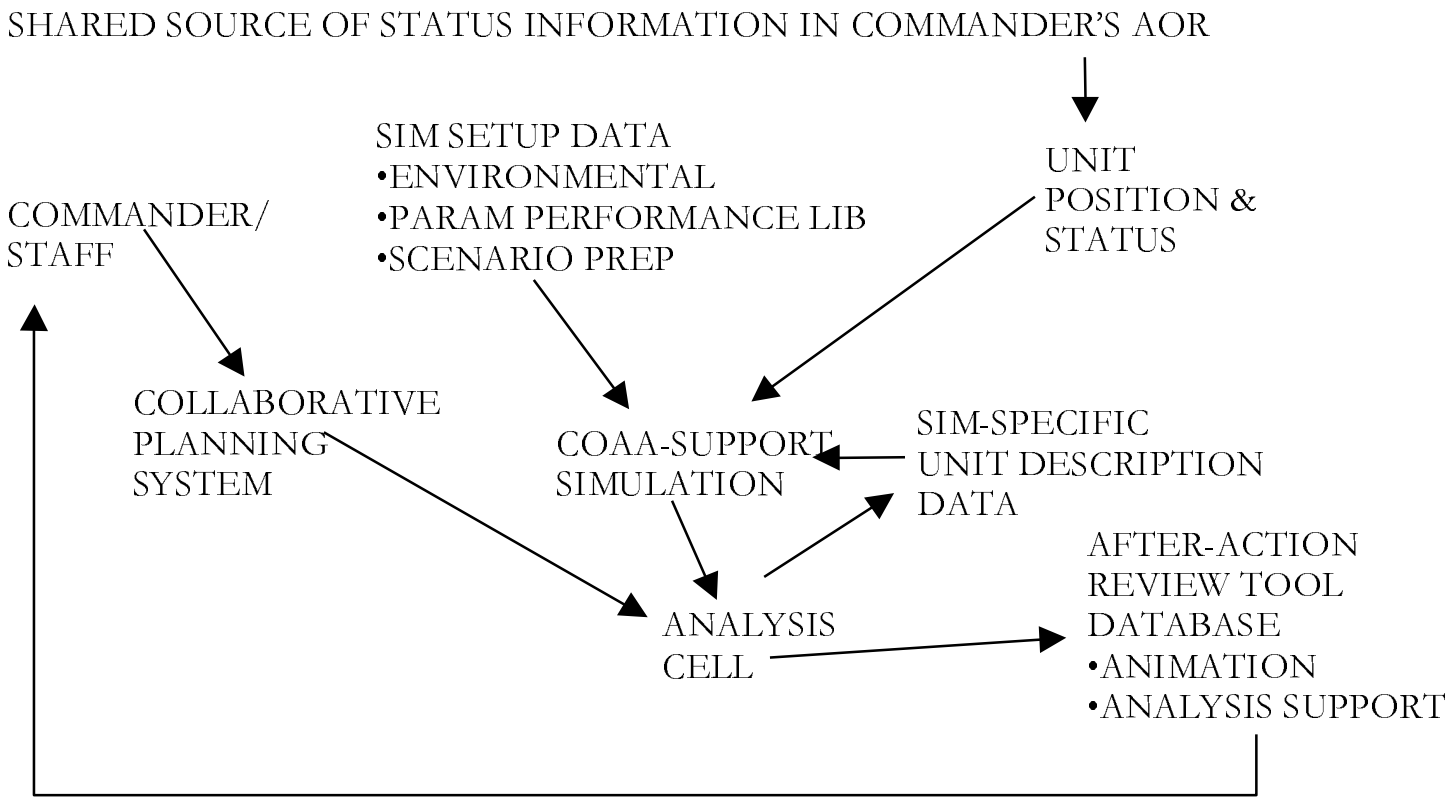
- **Aggressive**
- **Cost-effective**
- **Innovative**
- **Integrated with the rest of the Marine Corps**

DoN M&S Vision

- Modeling Consistency across Applications
  - Training, Supporting Decisions (Ops, Acq, Assessment)
- Operations First
- Simulation will be Available to every Sailor & Marine
  - Drives Cost & Approach
- Systems Consistent: Navy-Marine Corps, Afloat-Ashore, Home-Deployed
- Investment will be Cost-Effective
  - Measurement Will be Done
- DoN will have a World-Class M&S S&T Program focused on Sailors and Marines

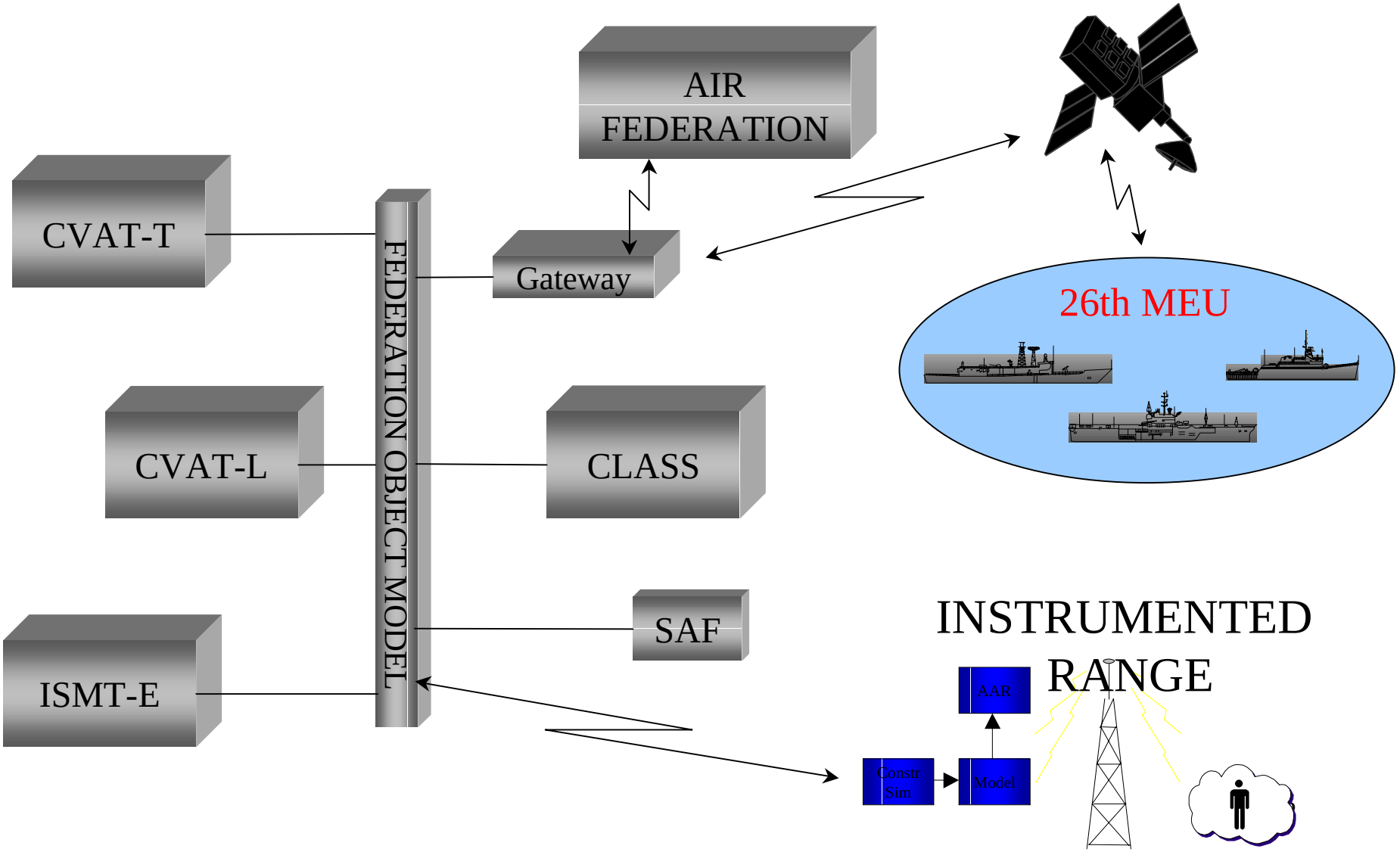
DRAFT

COA ASSESSMENT



Produce the "Weatherman's View" of the Operation

MAGTF FOM


AIR FEDERATION
CVAT-T
FEDERATION OBJECT MODEL
Gateway
26th MEU
CVAT-L
CLASS
SAF
ISMT-E
INSTRUMENTED RANGE
AAR
Constr Sim
Model

THE NEAR FUTURE
The Possible

- Dozens of Simulators per Location
- Regions tied Together
- Telecommunications Infrastructure
- Simulation Network layered on Base Infrastructure
- Round-the-Clock operation of the "Virtual Playground."
- Self-Administered, Locally-Coordinated Training Activity

ENABLERS

- Shipboard Training Concept
- NExW IPT and Naval Training FOM
- LPD-17 & MPF-Future
- HLA Mandate
- Real-Time Platform Reference FOM
  - SISO Working Group
  - CCTT Demo Project for IITSEC

PROJECT ALBERT

Realism vs. Controlability

Can an agent-based model give more of both?

What happens to traditional usage of simulation if the simulation is a Complex Adaptive System?

SCIENCE AND TECHNOLOGY

- Support-to-Operations System Development
- Virtual METOC
- Science of Learning aided by Simulation
- Exploitation of Entertainment Industry
- Representation Science
- Enable ONR (and MARCORSYSCOM by extension)

Navy-Marine Corps Team performing Operational Maneuver

- MPF-Future
- Advanced Literage
- AAAV
- Vertical Lift
- Deception
- Maneuver Warfare in the Littorals
  - Repeated Assaults and Retrogrades
  - Reconstitution
- Sea-based Logistical Support
  - Surface and Air Delivered

ANCILLARY SLIDES