



NAVAL
POSTGRADUATE
SCHOOL

20th Annual Acquisition Research Symposium

Panel 22

Acquisition through Modeling & Simulation

Monterey, California

May 11, 2022



Agenda - Panel 22

Thursday, 11 May 2023 – 3:45pm - 5:00pm PT / 6:45pm – 8:00pm ET
Chair: Denny Lester, PhD, Associate Provost, NPS, Panel 22 Intro

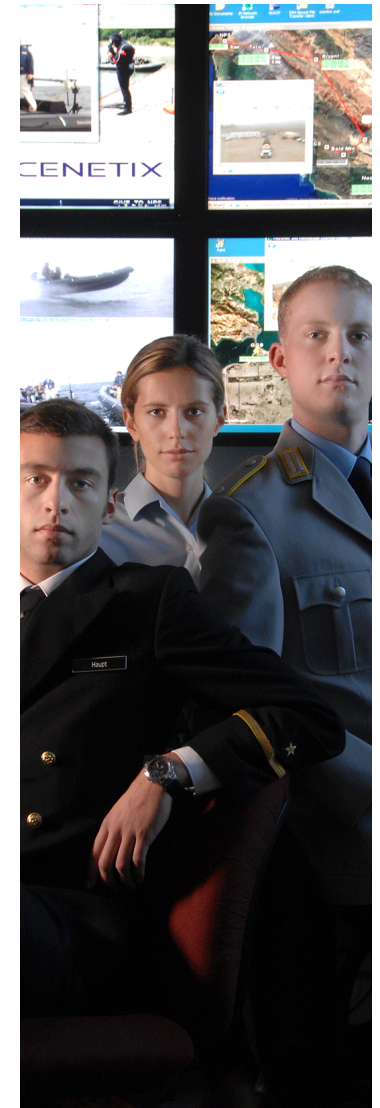
- *The Design and Development of a Defense Acquisition Workforce Virtual Environment for Asynchronous Collaboration (VEAC)*
Domonique Hittner, MAJ, US Army, PhD Candidate, Computer Science, MOVES - Naval Postgraduate School
- *A Reference Architecture for a Policy Test Laboratory*
Alejandro Salado, PhD - Department of Systems and Industrial Engineering - University of Arizona
- *Towards an Enterprise All-Domain M&S Environment for T&E: Overcoming M&S Challenges within the DOD*
Jeremy Werner, PhD - Office of the Director, Operational Test and Evaluation (DOT&E), Strategic Initiatives, Policy, and Emerging Technologies (SIPET)



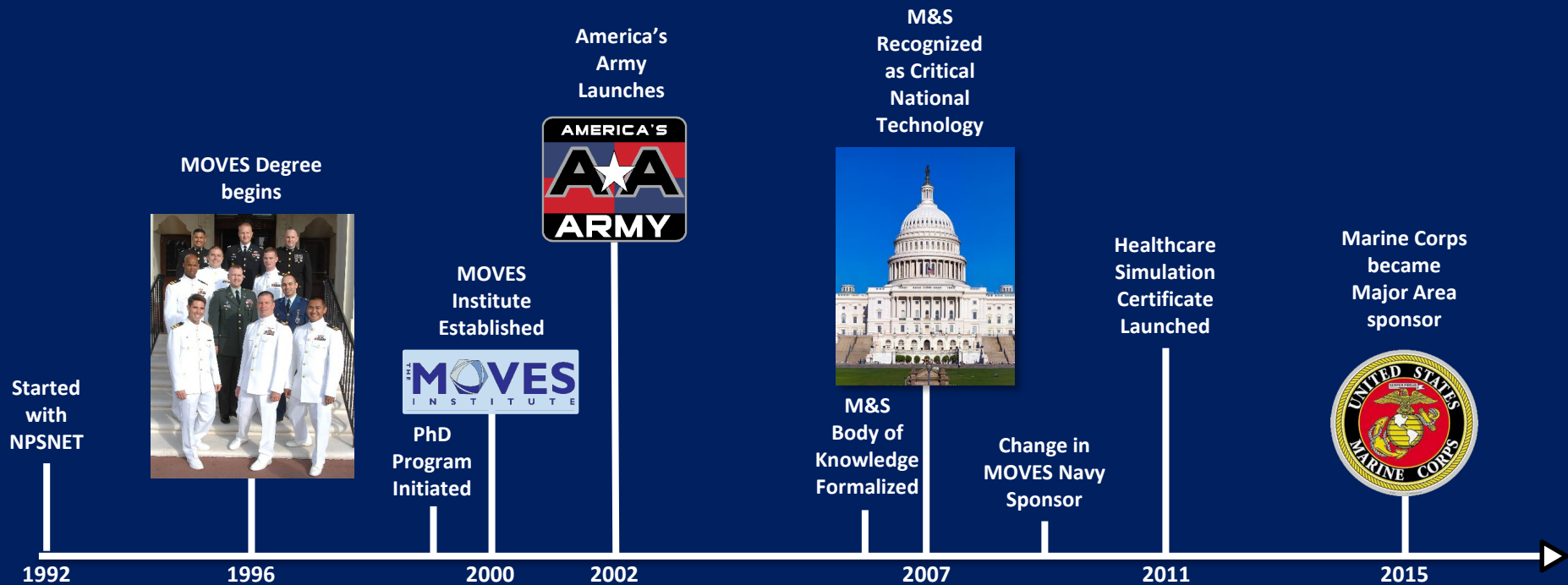


Modeling and Simulation at NPS

- 13 Departments
- Modeling Virtual Environments & Simulation (MOVES) Institute



Background – History



Background – Academic Programs

MS in MOVES

2 Year Resident Program

Mainly Officers
U.S. and Foreign
Including civilians
Over 290 graduates

PhD in MOVES

3 Year Resident Program

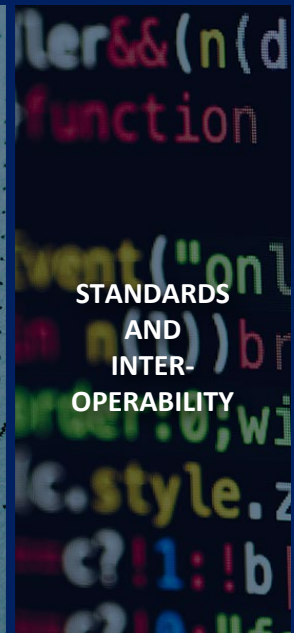
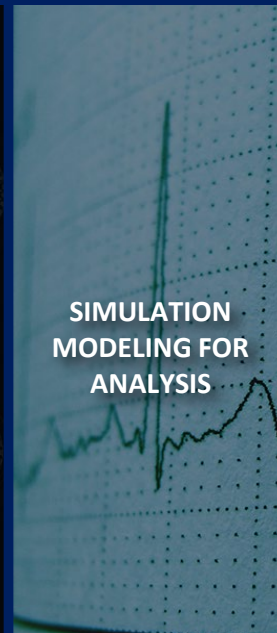
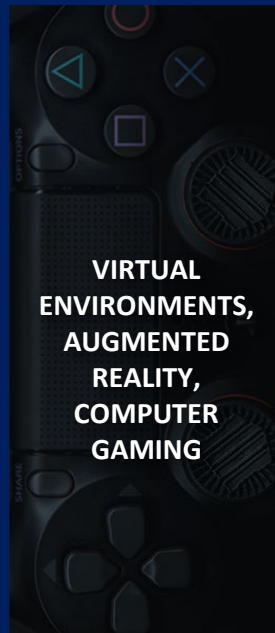
Mainly Officers
U.S. and Foreign
Including civilians
Over 25 graduates

Medical Modeling and Simulation Certificate

1 Year Asynchronous DL

Mainly Uniformed Healthcare
Professionals
Including civilians
Over 120 completed

Background – Research Concentration Areas



HUMANS

INFORMATION

Background – Initiatives



LVC INTEROPERABILITY
M&S ENHANCED WARGAMING
VIRTUAL & AUGMENTED REALITY



COMBAT MODELING
HUMAN BEHAVIOR REPRESENTATION





MOVES Sight Picture



Modeling & Simulation professionals who build tools (new capabilities) for acquisition, analysis, training, test, evaluation, and planning

Defense M&S workforce needs both

Acquisition, Analysis, Training, Test, Evaluation, and Planning professionals who know how to use Modeling & Simulation tools

MOVES Primary Contributions

Teach & conduct research in the science and development in the discipline of M&S towards increased capabilities for ...



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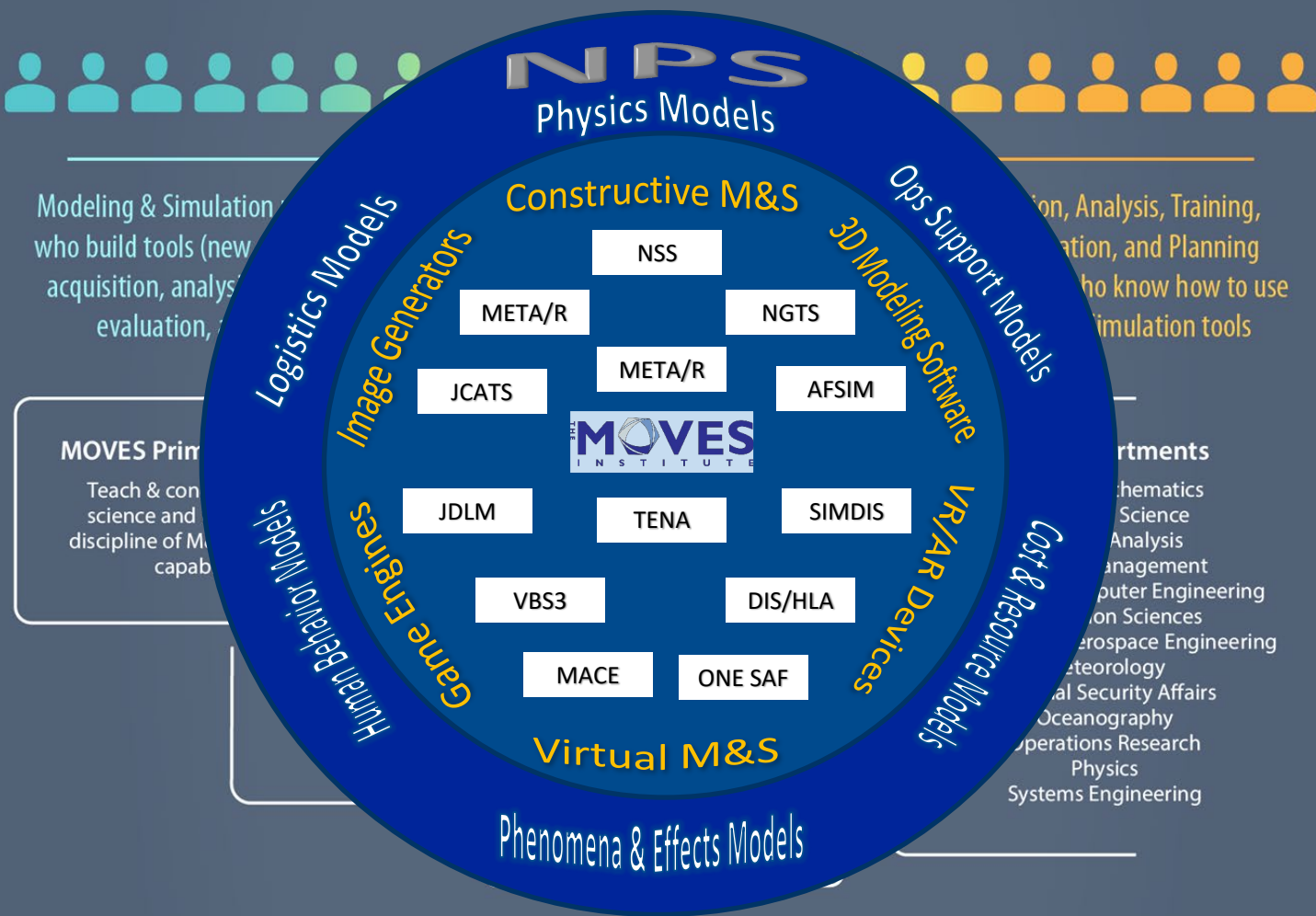
... NPS uses M&S tools as one (among many) techniques for problem solving

NPS Departments

- Applied Mathematics
- Computer Science
- Defense Analysis
- Defense Management
- Electrical & Computer Engineering
- Information Sciences
- Mechanical & Aerospace Engineering
- Meteorology
- National Security Affairs
- Oceanography
- Operations Research
- Physics
- Systems Engineering



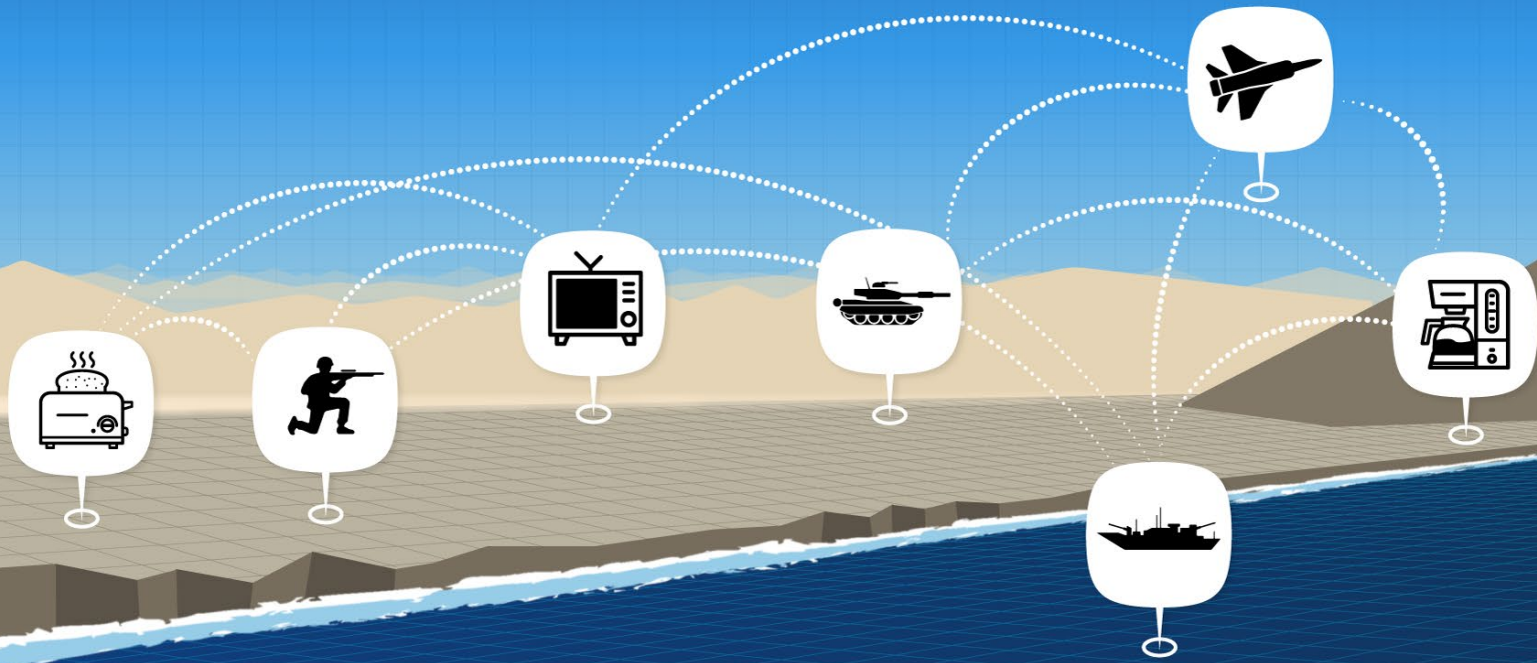
NPS M&S Sight Picture



NPS M&S Challenges Going Forward

- Increasing flexibility in curricula delivery, i.e., online and hybrid learning
- Opening pipeline for additional student quotas
- Responding to emerging requirements in LVC
- Building mutually supporting internal and external partnerships and *connections*





ARE WE HOOKING TOASTERS TO TELEVISIONS?

—JIM HOLLENBACH, CAPT, USN, DIRECTOR, DMSO, C. 1995

Icons by the Noun Project (<https://thenounproject.com>)

Agenda



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