ALLIED COMMAND TRANSFORMATION

AWISE

Generating NATO MDO Readiness through an Integrated Analysis, Wargaming, Innovation, Simulation and Experimentation Ecosystem

Jan Hodicky, NATO HQ SACT MDFD MSLT M&S Section

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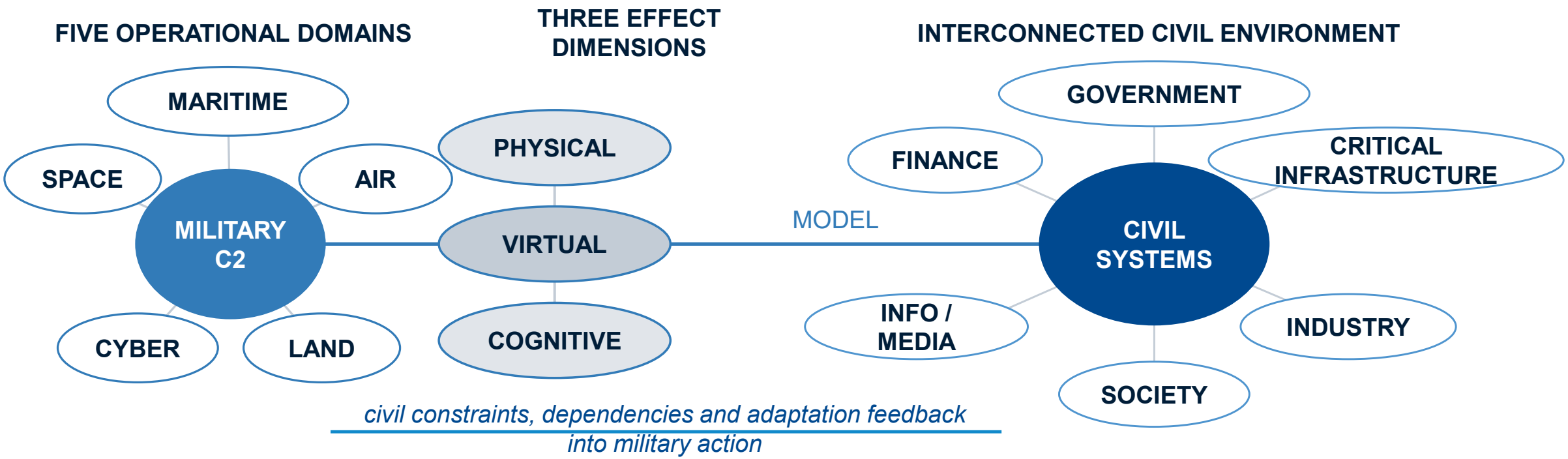
Agenda

- MDO Context
- NATO Analysis Wargaming Innovation Simulation and Experimentation (AWISE) Vision
- AWISE Ecosystem
- Warfare enablers (AWISE tools) 101
- 2027 NATO Command Structure (NCS) M&S POW
- AWISE process Lessons Identified

MDO Readiness

FROM DOMAIN SYNCHRONIZATION TO ACTOR ORCHESTRATION



5 DOMAINS + 3 EFFECTS + CIVIL ENVIRONMENT

AWISE Vision

Constellation AWISE enables NATO to turn operational challenges into integrated, evidence-based warfare-development solutions by **orchestrating** Analysis, Wargaming, Innovation, Simulation and Experimentation across the NATO HQ SACT.

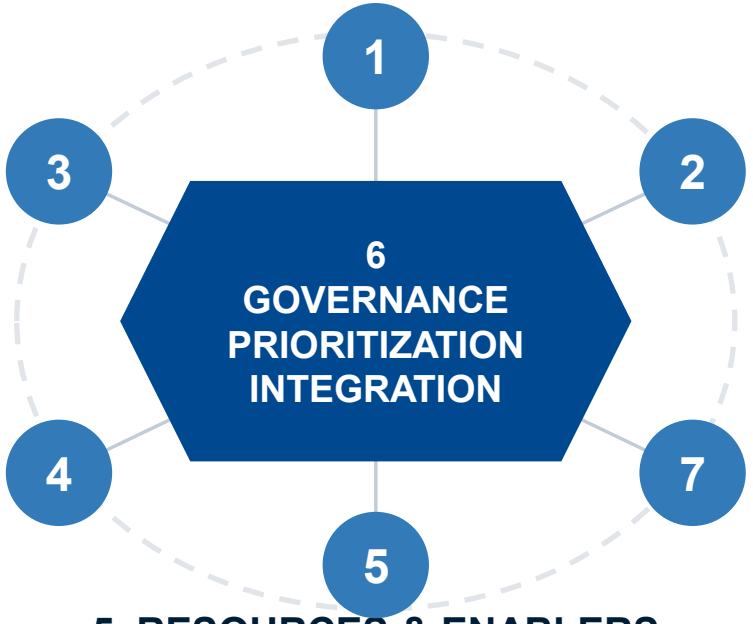
As a single HQ SACT-level constellation, AWISE aligns the use of **warfare-development tools**, **prioritizes and allocates** scarce expertise and resources, and connects NATO commands, Centres of Excellence, nations, industry and academia into an **ecosystem** focused on delivering the capabilities and strategies required for Multi-Domain Operations (MDO) readiness.

AWISE Ecosystem

1 STRATEGIC & OPERATIONAL DEMAND

3 PEOPLE, EXPERTISE & ORGANIZATIONS
Orchestrate the distributed human network

2 WARFARE-DEVELOPMENT TOOLS
Analysis • Wargaming • Innovation
Simulation • Experimentation



4 DATA, MODELS & DIGITAL INFRASTRUCTURE
Create the evidence foundation

7 TRANSITION TO CAPABILITY & READINESS
Convert learning into NATO advantage

5 RESOURCES & ENABLERS
Align scarce capacity to priorities

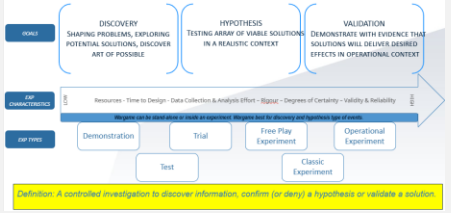
Warfare enablers (AWISE tools) 101

INNOVATION Rapid adoption of concept, capabilities, EDTs (BEACON and MVP projects)

EXPERIMENTATION & WG:

EXPERIMENTATION

- Discovery
- Hypothesis
- Validation



WARGAMING

- Force Design
- Concept Development
- Strategy Development

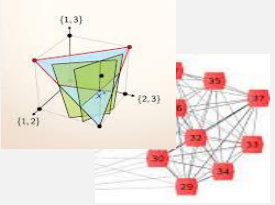
RED TEAM

- Red 2030+
- Red Teaming
- Red Network

OPERATIONAL ANALYSIS:

QUANTITATIVE ANALYSIS

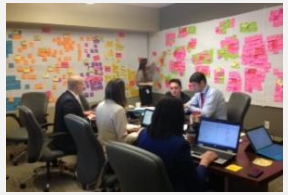
- Operational Effectiveness
- Capability Gap Analysis
- Multi-Criteria Analysis



- Statistical/Data Analysis
- Optimization

QUALITATIVE ANALYSIS

- Workshop Facilitation
- Wargaming / Game Design
- Concept Assessment



- Morphological Analysis
- Six Thinking Hats
- Pre-Mortem Analysis

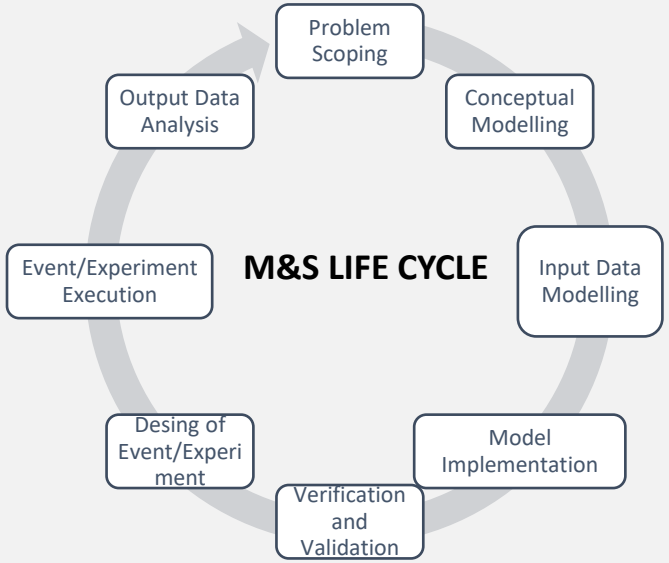
MODELLING AND SIMULATION

NATO M&S BODY OF KNOWLEDGE

- Model problem domain
- Design and implement simulation systems
- Use simulation system in application domains

NATO NEXGEN OF M&S APPLICATION DOMAINS

- Computer Assisted Exercises
- Operations Planning
- Computer Assisted Wargames
- Analysis



NATO OTAN

MDFD/OA

NCS M&S POW 2027

Version August 2026

M&S Bi-SC Directive

- FEB(-1) • Bi-SC Call for Initiative
- MAR(-1) • Initial Bi-SC M&S PoW
- APR(-1) • NCS M&S PoW workshop
- MAY(-1) • Inform NATO M&S Enterprise on potential projects
- JUN(-1) • Final Bi-SC PoW signed by ACT and ACO COSs
- JUL(-1) • MC Letter informing on M&S POW
- DEC(-1) • Budget Approval for M&S PoW
- JAN(0) • Contractual Instruments for M&S projects

PLUS OUT OF CYCLE REQUIREMENTS

2027 NATO M&S POW: ACT

- Cognitive Experimental AI Platform
- Future Force Design
- A Process for Strategy Development
- AI Algorithmic Wargame Platform
- Defense from Hypersonic Threats
- Medical Offset Strategy
- Resilience Training Provision Improvement (RTPI)
- Military Resilience / Layered Resilience Analytical Framework Test
- Modeling and Simulation Verification and Validation of M&S Services
- Operational Effectiveness of gender perspectives in military operations
- Bi-SC Modelling & Simulation Integration Laboratory Environment (MSILE) AWISE Integration Environment Laboratory
- Modelling and Simulation Lessons Learned
- Gender perspective enabling MDO Experimentation
- Long-term Strategic Shaping - Wargame Series - Implementation and Assessment of Shaping Options

AWISE POW Lessons Identified

- Requirements specification over-classification-> INFORM
- NCS end-users still not getting the value of AWISE tools used in collaboration-> EDUCATE
- NCS end-users not aware of M&S Bi-SC Directive/process timeline-> EDUCATE
- Roles and responsibilities of NCS end-user is not known -> EDUCATE
- Routine maintenance of the sim contracts should not be considered as a project within POW-> MODIFY DIRECTIVE
- Missing AWISE governance-> INFORM HQ LEADERSHIP
- Difficult to synchronize between ACT and ACO POW, no ACO AWISE structure -> ACO TO INCLUDE EXPERIMENTATION AND OPERATIONAL ANALYSIS
- Analysis and Prioritization is not codified-> DEFINE SOP

Q/A