

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

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Section

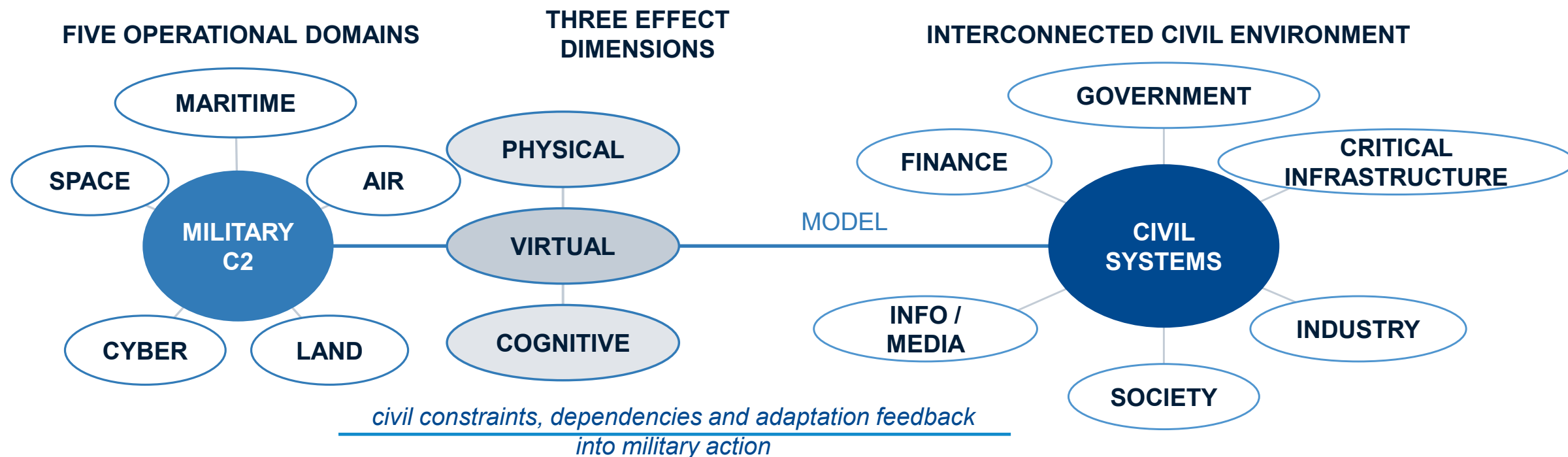
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Agenda

- **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

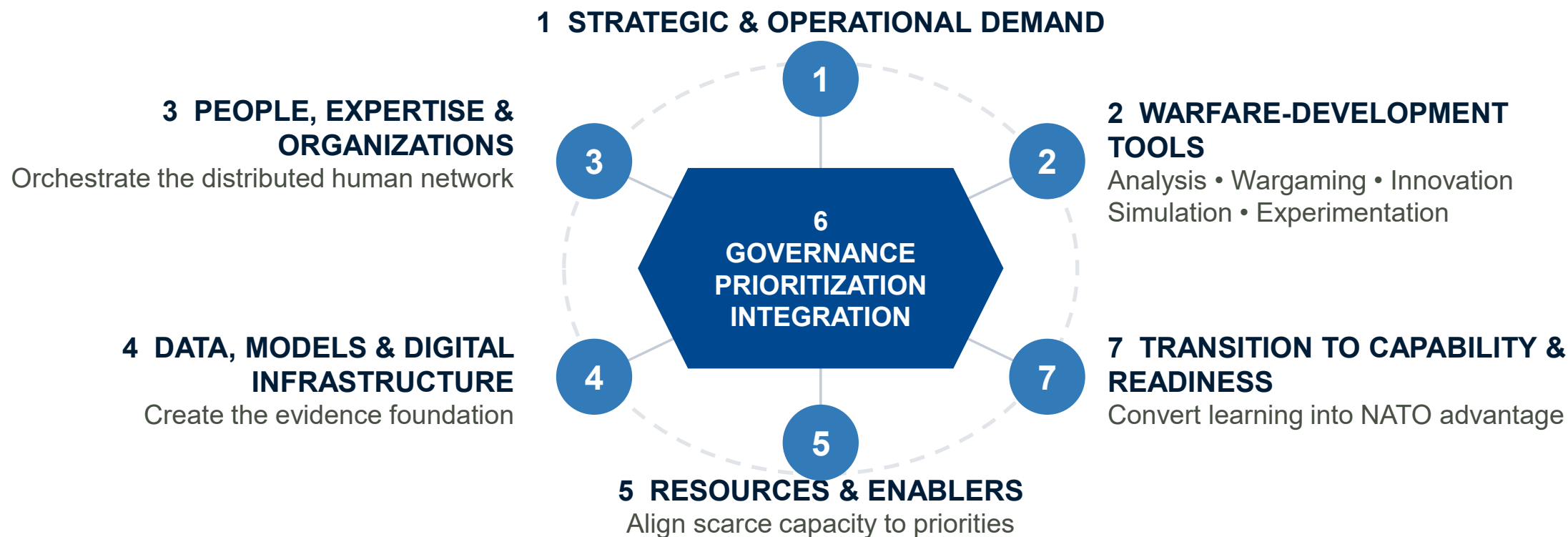
Constellation AWISE enables NATO to turn operational challenges into integrated, evidence-based warfare-development solutions by **orchestrating** Analysis, Wargaming, Innovation, Simulation and Experimentation across the NATO HQ SACT.

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 Vision



AWISE Ecosystem



Warfare enablers (AWISE tools) 101

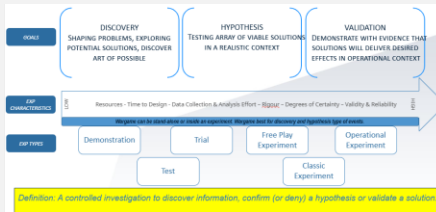
INNOVATION

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

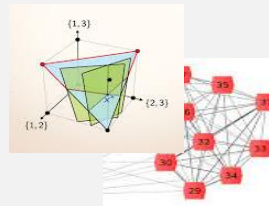
- Red 2030+
- Red Teaming
- Red Network



OPERATIONAL ANALYSIS:

QUANTITATIVE ANALYSIS

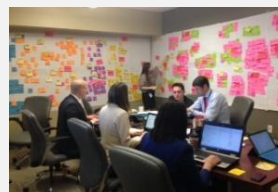
- Operational Effectiveness
- Capability Gap Analysis
- Multi-Criteria Analysis



- Statistical/Data Analysis
- Optimization

QUALITATIVE ANALYSIS

- Workshop Facilitation
- Wargaming / Game Design
- Concept Assessment



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

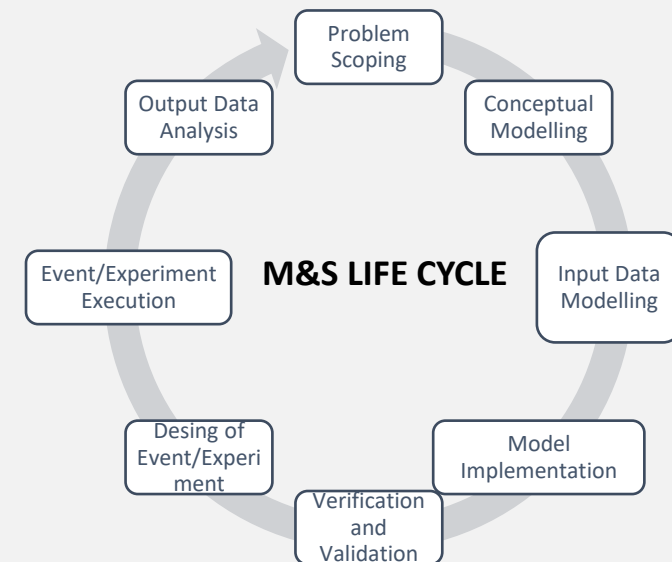
MODELLING AND SIMULATION

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

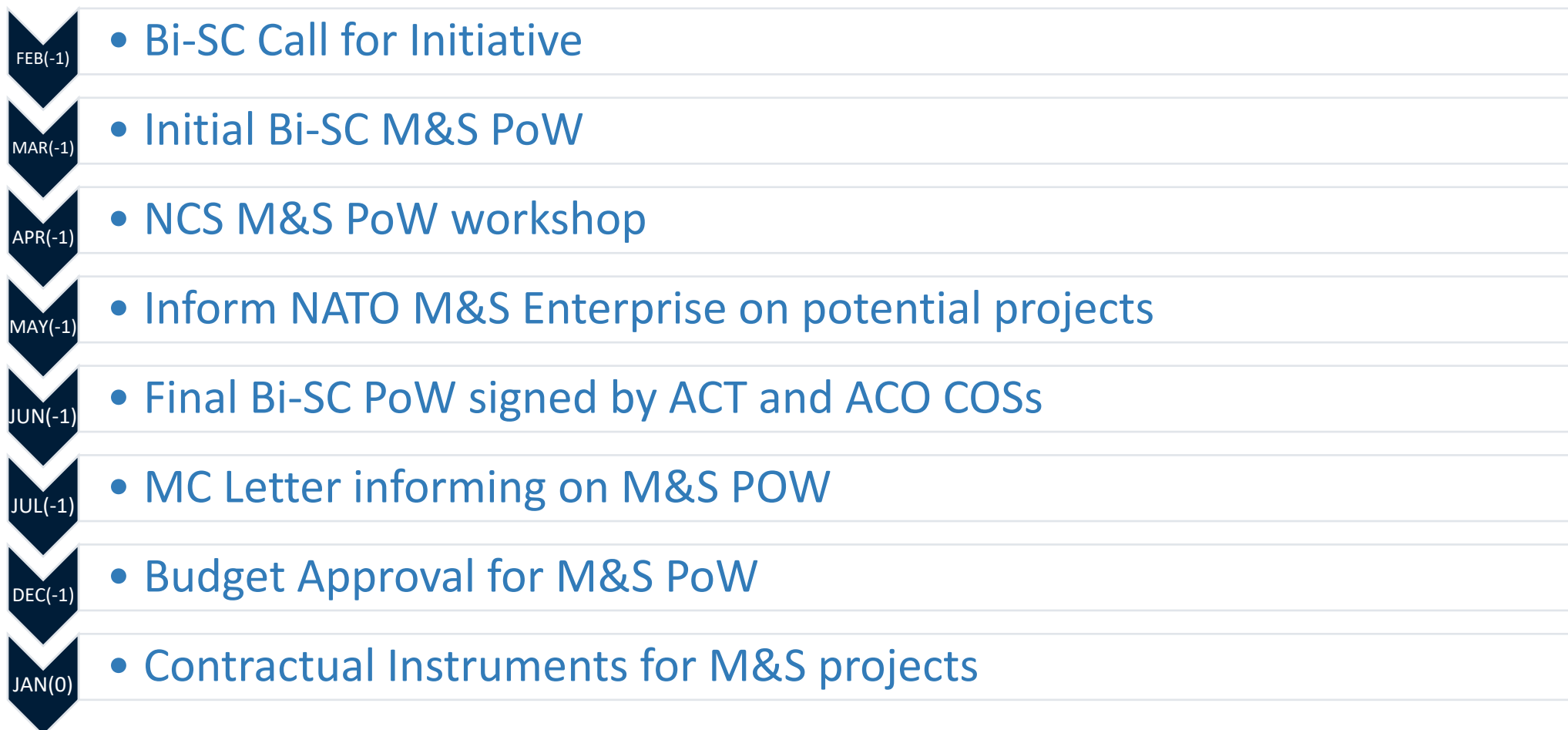




NCS M&S POW 2027

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M&S Bi-SC Directive



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

