





Communications and Information Systems
(CIS) Interoperability

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SCOPE

- *Coalition Information Sharing Challenges within a Network Enabled Environment*
- Interoperability is a challenge!
- No interoperability:
 - No network enabled environment
 - No information sharing
- Move to a federated networked environment makes interoperability central to National as well as NATO activity

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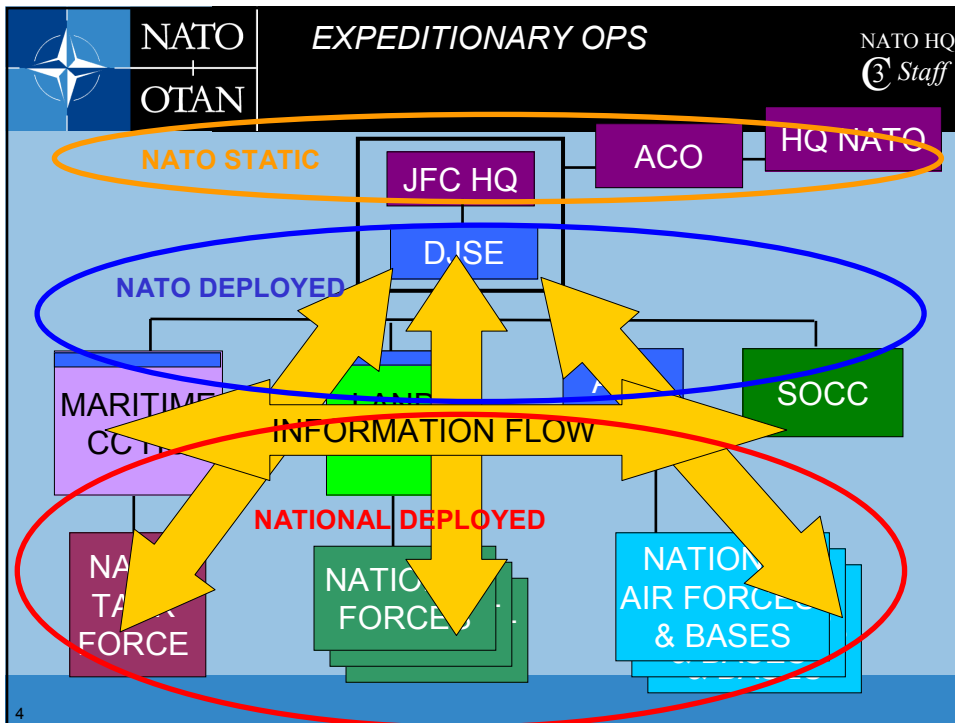
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OTAN


INTEROPERABILITY KEYS

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- Understanding and documenting the interoperability requirement (IOR)
- Identifying solutions to the IOR
- Implementation of the solutions by all parties
- Test and validation of the implemented solutions

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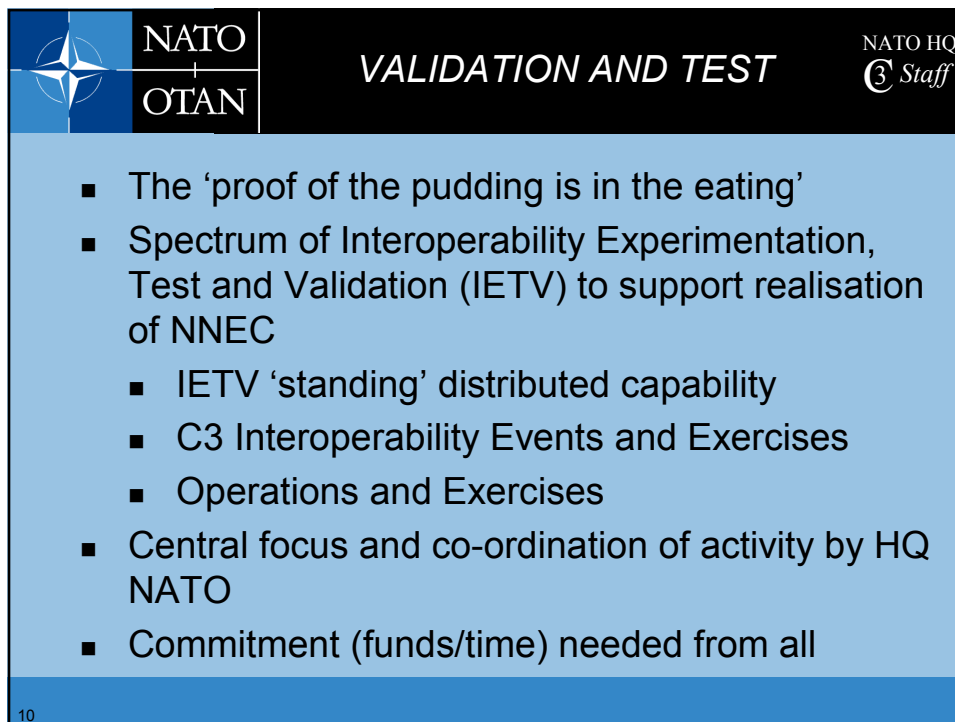
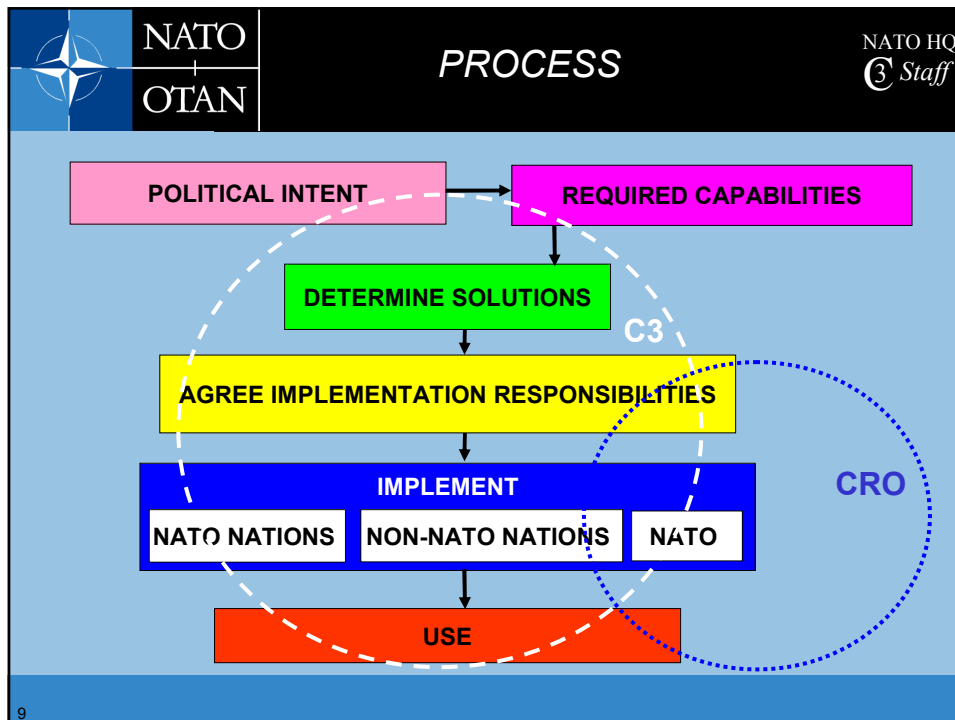



	NATO + OTAN	IOR – UNDERSTAND & DOCUMENT	NATO HQ 3 Staff
<ul style="list-style-type: none">■ IOR embedded in capability requirement:<ul style="list-style-type: none">■ Nations: NATO, Partner Nations, Coalitions■ Comprehensive Approach: OGD & NGO■ Command and Force structure■ Expressed to cover:<ul style="list-style-type: none">■ Information Requirement■ Required 'Services' (Operational, User, NNEC)■ Security Domain compartments■ Timeframe: NNEC Maturity			
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	NATO + OTAN	IOR – UNDERSTAND & DOCUMENT	NATO HQ 3 Staff
<ul style="list-style-type: none">■ WHO:<ul style="list-style-type: none">■ NATO Military and Political Authorities■ With involved Nations■ In association with technical experts■ HOW: ARCHITECTURE<ul style="list-style-type: none">■ Operational, Capability, Service-Oriented Views■ Service Interoperability Points (SIOP)			
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	NATO + OTAN	IDENTIFY SOLUTIONS	NATO HQ 3 Staff
<ul style="list-style-type: none">■ WHERE NEEDED:<ul style="list-style-type: none">■ SIOPs■ WHAT TO BE DEVELOPED:<ul style="list-style-type: none">■ Standards (STANAGs) (technical and procedural)■ Profiles■ Security■ Linked to architecture■ DEVELOPED BY WHOM:<ul style="list-style-type: none">■ Technical experts, with industry and user■ Centrally Documented: near, mid, far term			
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	NATO + OTAN	IMPLEMENT SOLUTIONS	NATO HQ 3 Staff
<ul style="list-style-type: none">■ Both (all) parties need to implement the agreed solutions in the right set of equipment at the right time■ NATO corporately, NATO nations, non-NATO troop contributing nations, Other Government Departments, Non-Governmental Organisations■ Enablers:<ul style="list-style-type: none">■ Willingness to share and to commit■ Architecture – systems, technical, programme views■ Process			
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USAGE

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- Network governance and management:
 - Information and data management
 - Federation rules and management
 - Life-Cycle management
- Lesson Learned
- Fast responsive spiral development to changing requirements and circumstances

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MESSAGES


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- Interoperability is a core part of realising network enabled capability
- Coordinated effort needed in all of the key areas: requirement definition, and identification, implementation and test of solutions
 - *One fail, all fail.*
- Success opens up the benefits of network enabled capabilities: failure means that users can be put at risk because of the lack of the right information at the right time
- Success relies upon commitment

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Thanks for your attention



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