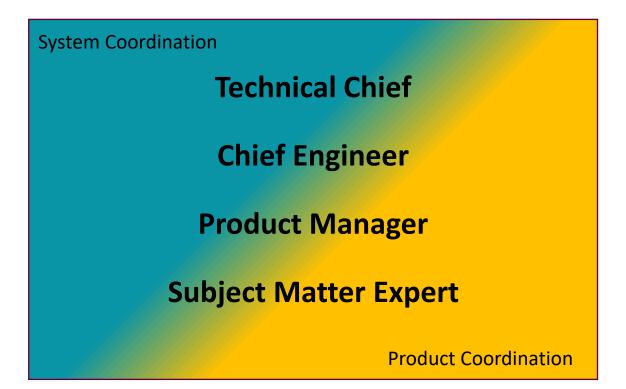
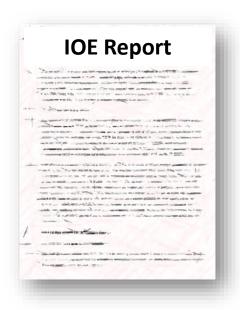
TDL Coordination & Advisory Group and FMV T&E

"The process to become and <u>remain</u> interoperable"

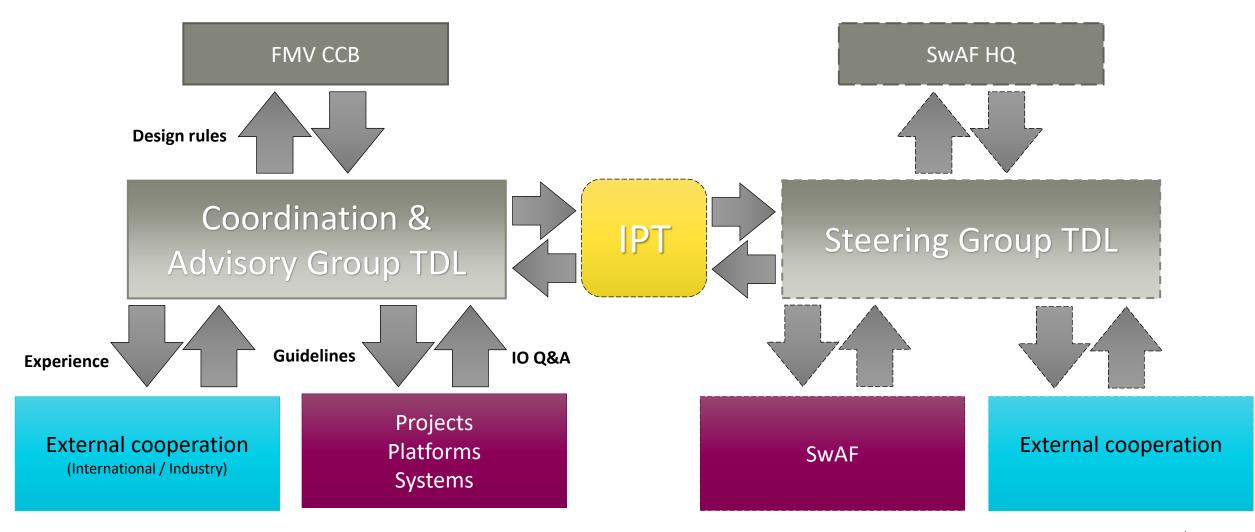


The Design Organisation

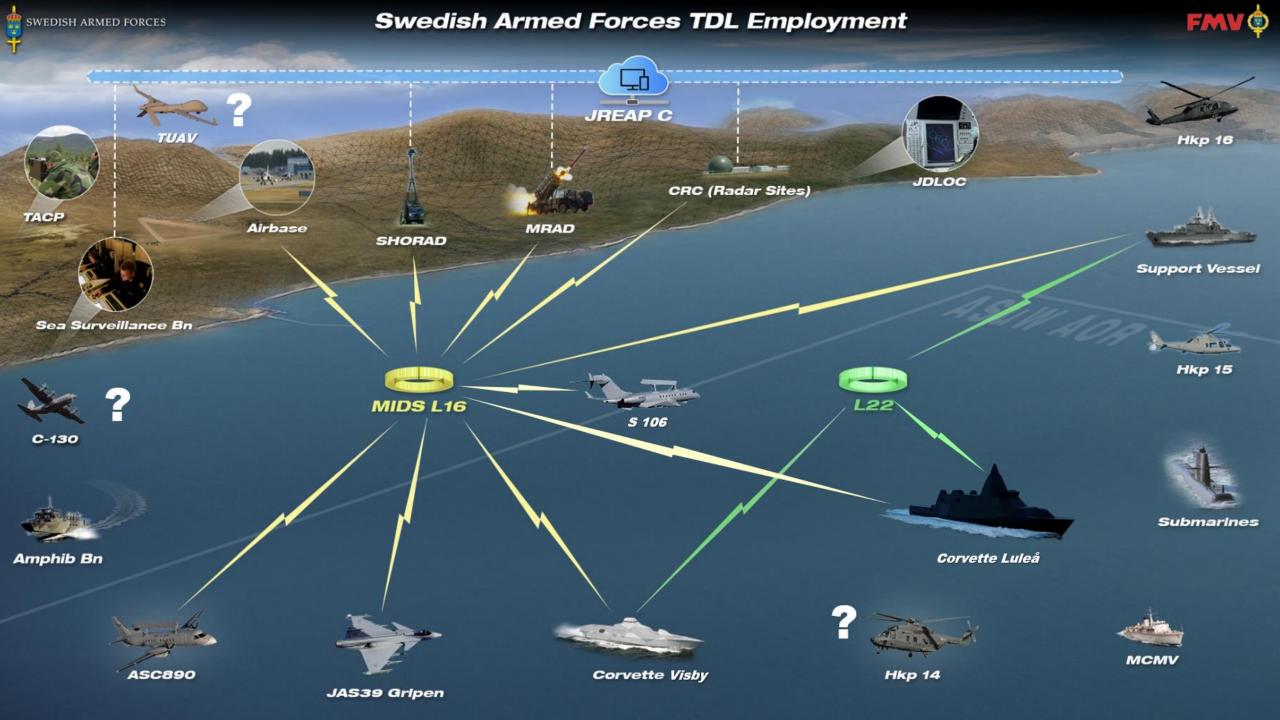






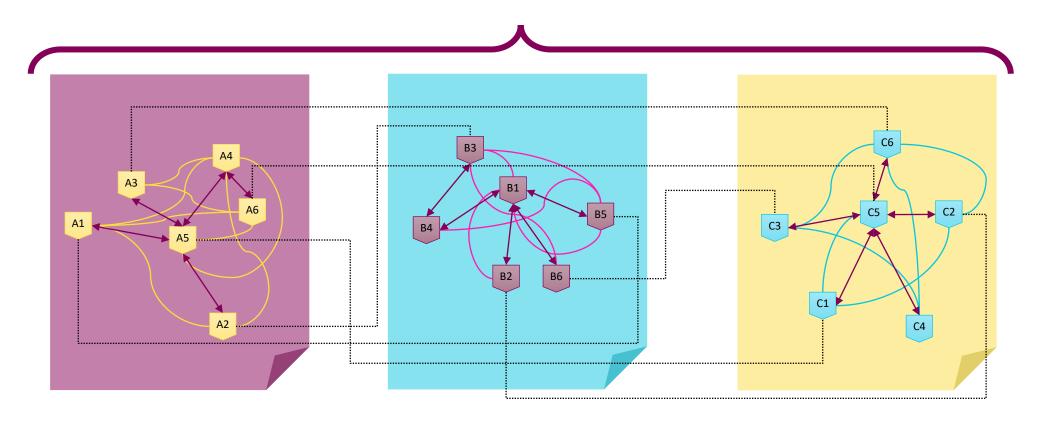






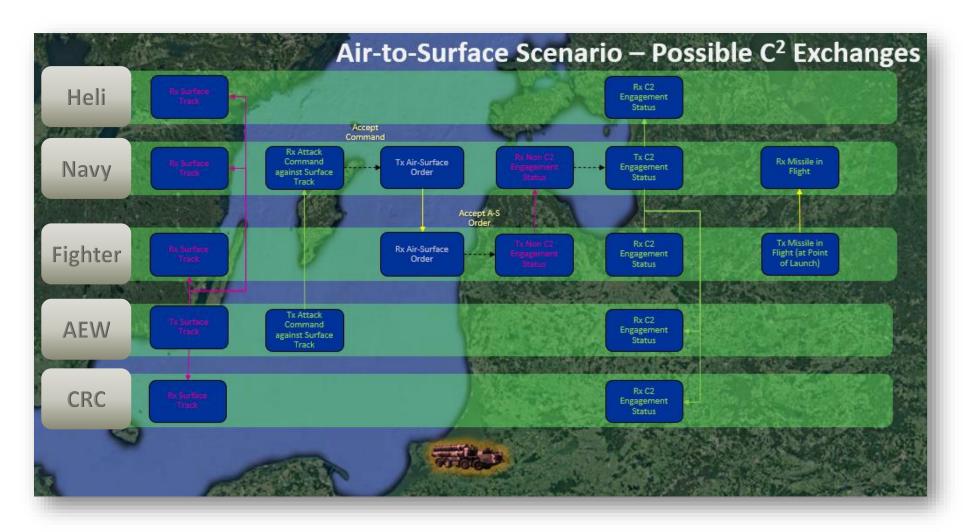
Complexity of TDL Requirements

Swedish Armed Forces Combined/Joint



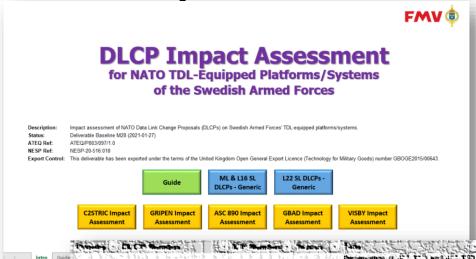


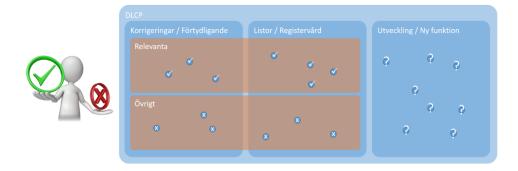
Swedish Armed Forces IERs





DLCP Impact Assessment







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Situation Awareness - Geographic Entities
Geographic entities that are exchanged to provide additional SA or to report entities for which direct sensor support is not available.

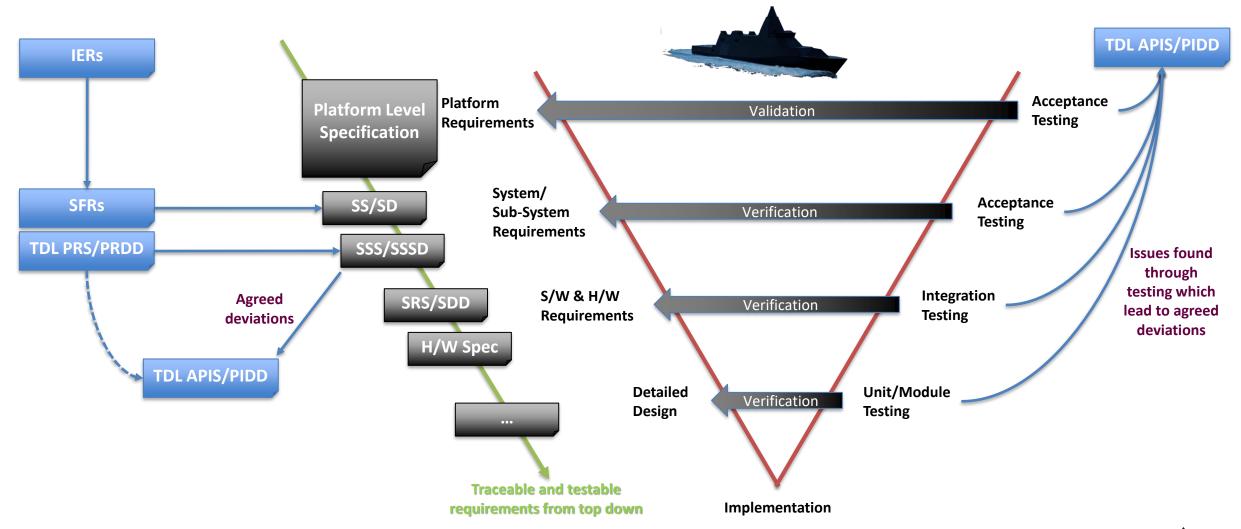
Reference Point - Hazard

A geographic reference point that reports an entity that is a potential Hazard to friendly forces

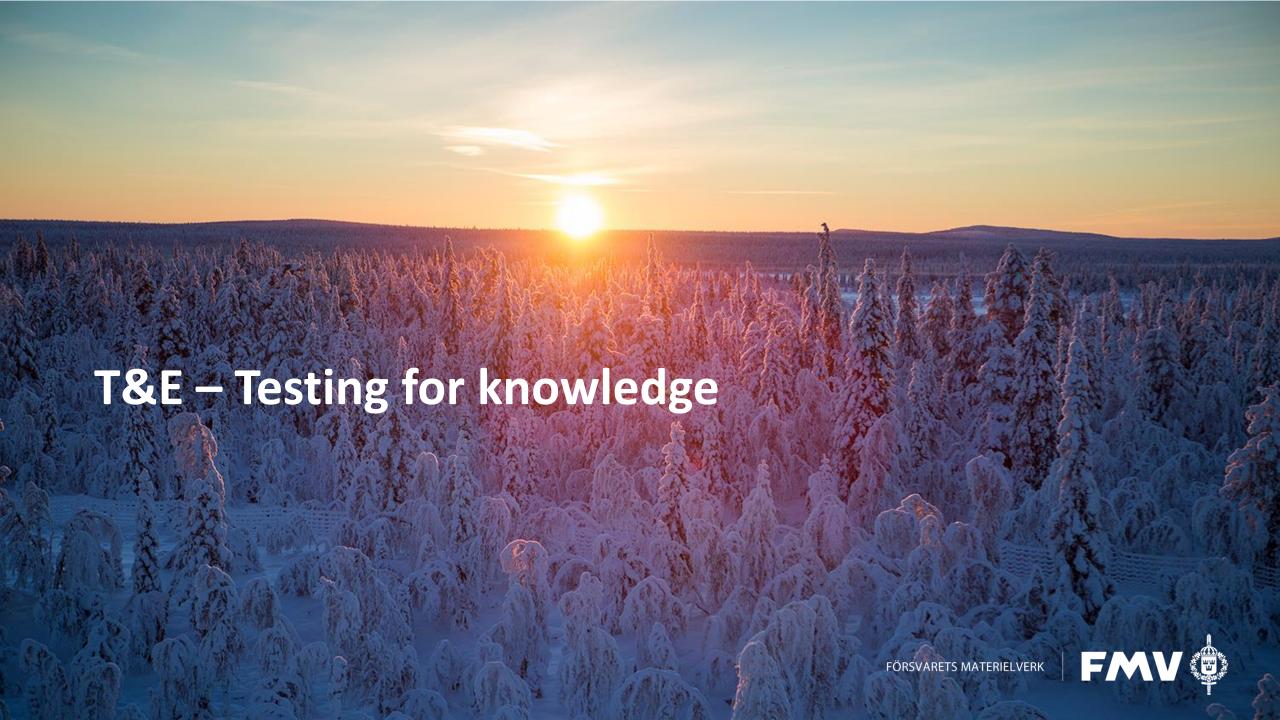
Information Type		Issue	Operational Summary
Hazard Description	No Known Issues		
Location	Slaved Entities		MRCA may discard all slaved entities
Point Handling Attributes	Sensitive Tracks on	<u>Display</u>	MRCA does not identify "sensitive" Tracks on the display.
General Reference Point		Name	
 A geographic reference point that reports a geographic entity 	to aid situation awareness (e.g Marshall Point	Originator Number	Mark 167 183 Car Selection Control of the Control o
Information Type Reference Point Type	No Known Issues		
Location	Slaved Entities	Seventy City City City	
		Security Marking	
Point Handling Attributes	(I) Sensitive Tracks on	Releasability	
Land Object A geographic object in the Land domain that has been derive	ed from other than sensors	Operational Summary	Metarina and the second management of the second
Information Type	Not it of the called a family of the called	Operational Description	There is a suspecial title Michael and Arrest of the control of th
Location	No Known Issues	SYFICATE HEHER OFFI	
dentification	No Known Issues	(O Conflicts Addressed	
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TDL Verification & Validation







Testing for knowledge

- Organisation Tasks
- Area of operation
- Method
- Challenges
- Focus system levels
- Support system levels
- Process Operational functionality
- Functional Deliveries IAMD
- Interoperability





FMV Vidsel Test Range **FMV Naval Test Ranges** FMV Älvdalen Firing Range FMV Land Test Centres **FMV Flight Test Centre**

T&E C4I – main task

"Our main task is to Test and
Evaluate

the Swedish Armed Forces C41capability

and how C41—systems
supports other capabilities".





Area of operation





Area of operation

Air operations

Sensors

Cyber security

Information Security
Evaluator
Information Security
Test Manager

Business development **GBAD**

Patriot Legacy systems

FMN

Federated Mission Networking

CWIX

International event NATO allied command

CIAV

Coalition interoperability verification and validation working group

Support unit

Battle
Management
systems
Ground

EW Ground



The reality – cooperation!



Method

Choice of method is adapted to:

- Complexity
- Phase
- Available time
- Economy

T&E activities:

- Examination (of documents)
- Inspection
- Analysis
- Simulation
- Comparison
- Test
- Demonstration



Challenges

- Validation of C4I capabilities for land/air/navy domains with reliable data
- Access to Armed Forces Operators
- Cyber Security (competence)
- Simulate the reality
- Big Data
- Artificial Intelligence (assurance)



Focus for testing on different levels



Focus MDO

 Functional scenarios that involves coordinatin between Air, Ground and Naval forces



Integrated



Focus Tactical Units

Functional scenarios within Air, Ground or Naval forces





• Functions within a platform or specific units



C2 units, Fire



Support from T&E on different levels



IMBLF



Integrated functionality

FMV Integrated GBAD Program & T&E C4I



MBLvTS



Tactical unit T&E C4I (Btn Demo)

Aquisition Projects & T&E Ground forces (SICO)



LvStriC, LvC



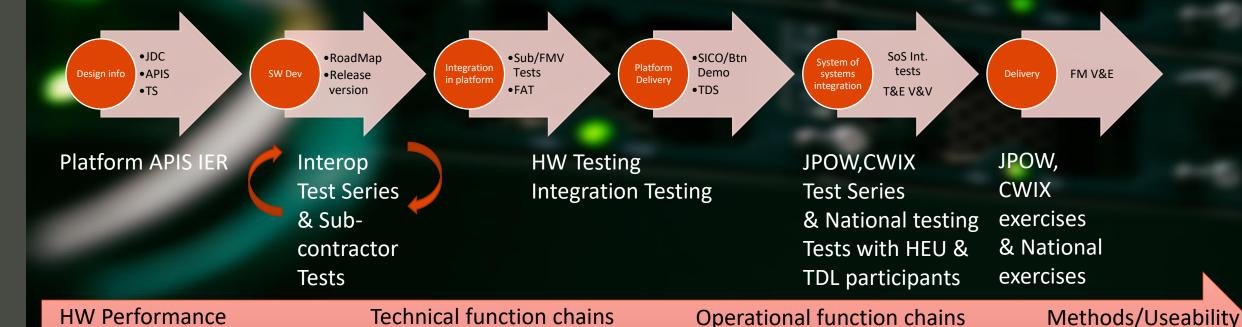
Platform

Aquisition Projects & T&E Ground forces

Sub contractor



Process - Operational functionality focus





System capabilities

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