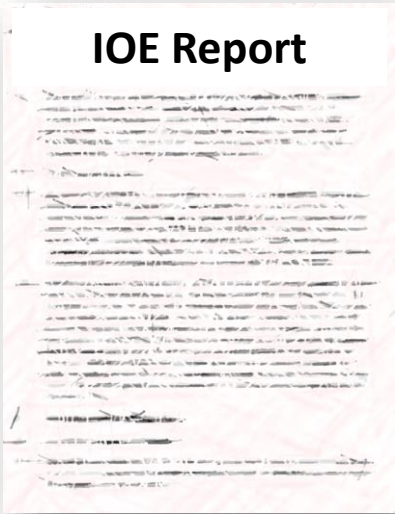
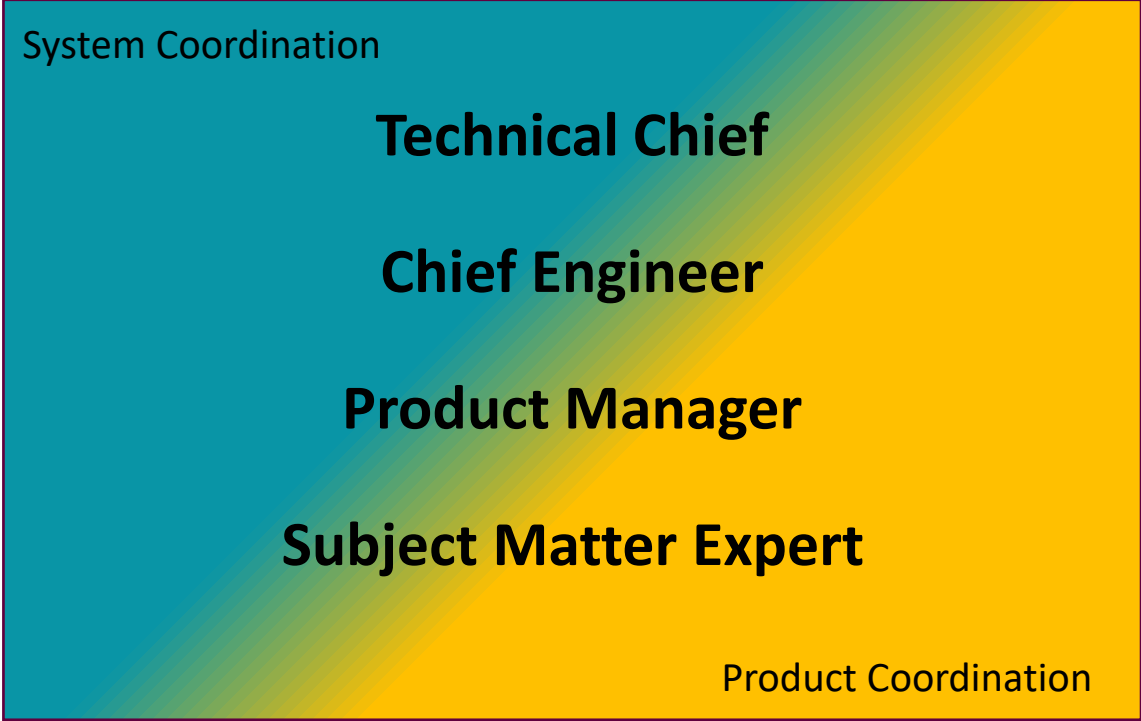
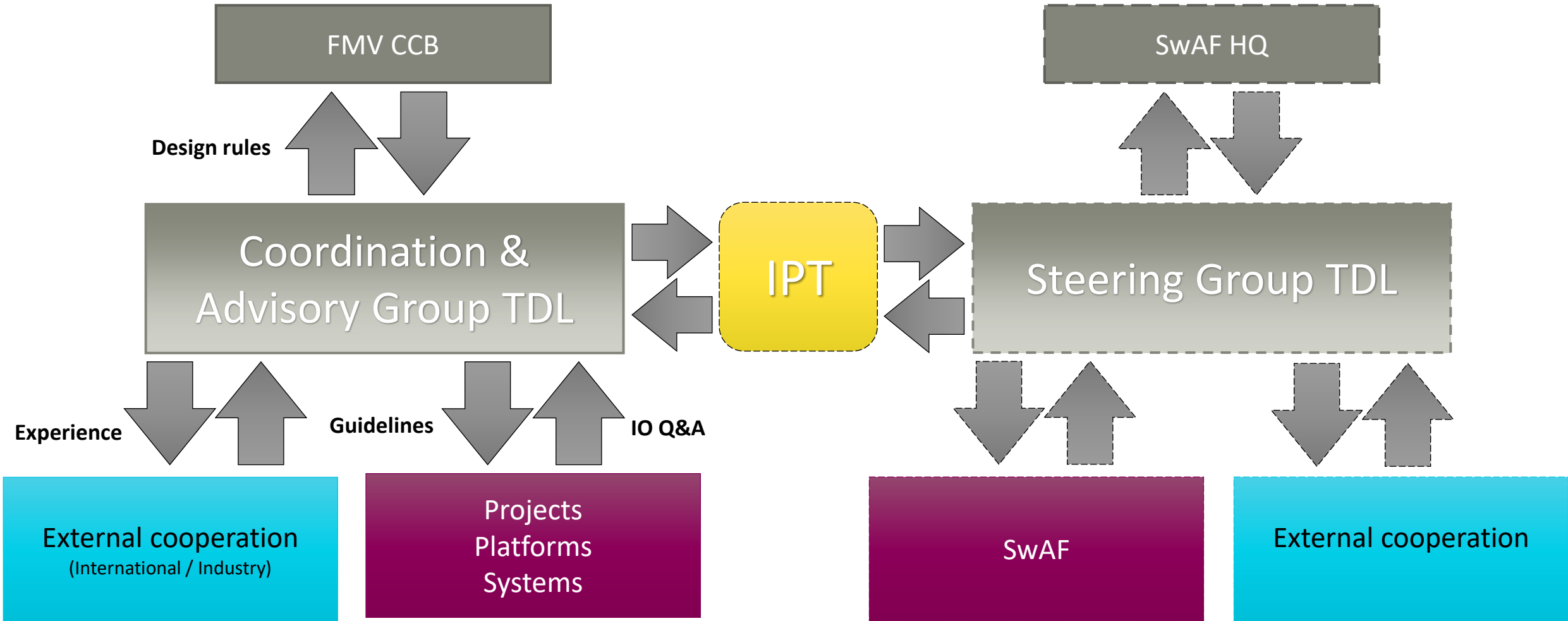


TDL Coordination & Advisory Group and FMV T&E

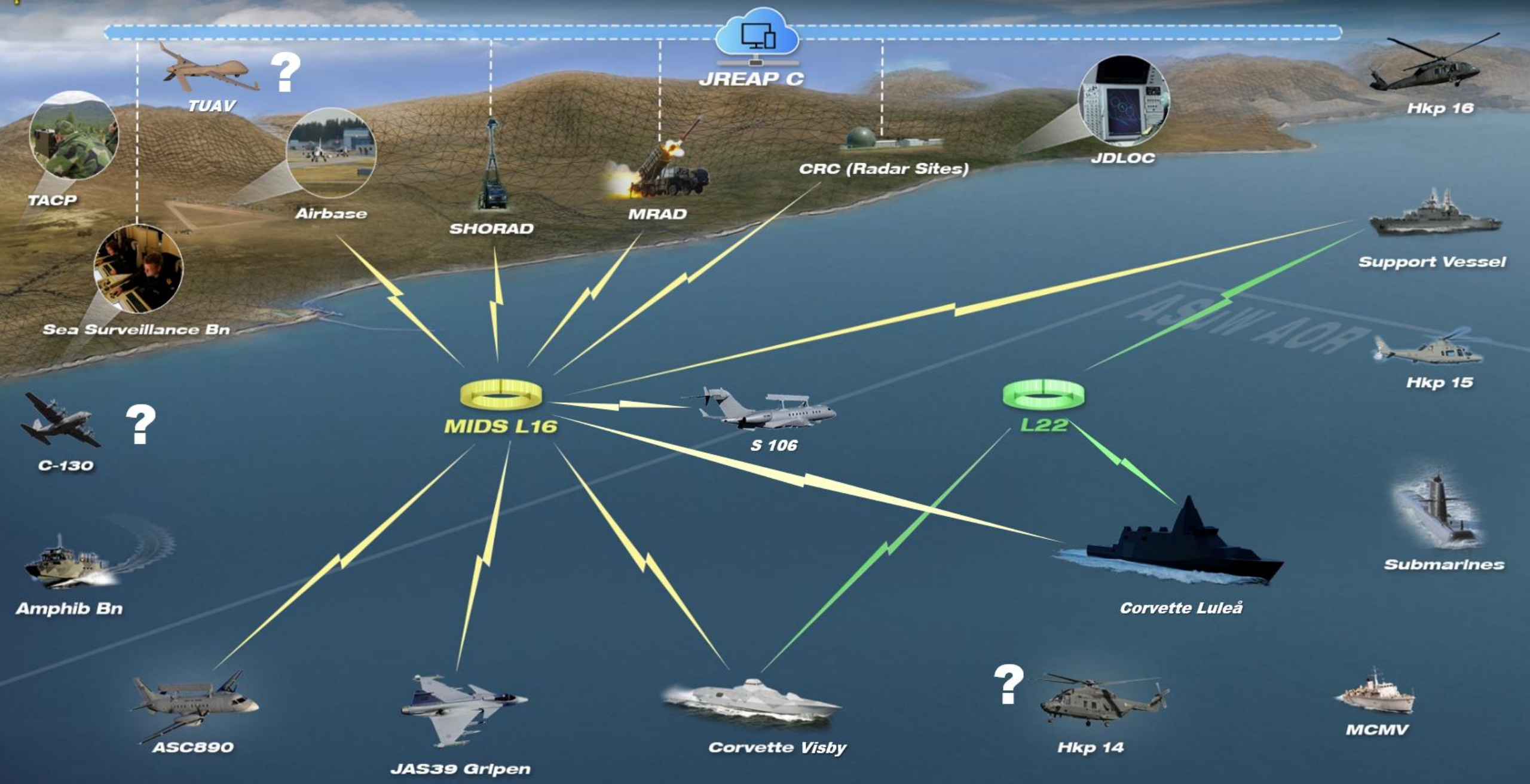
“The process to become and remain interoperable”

The Design Organisation



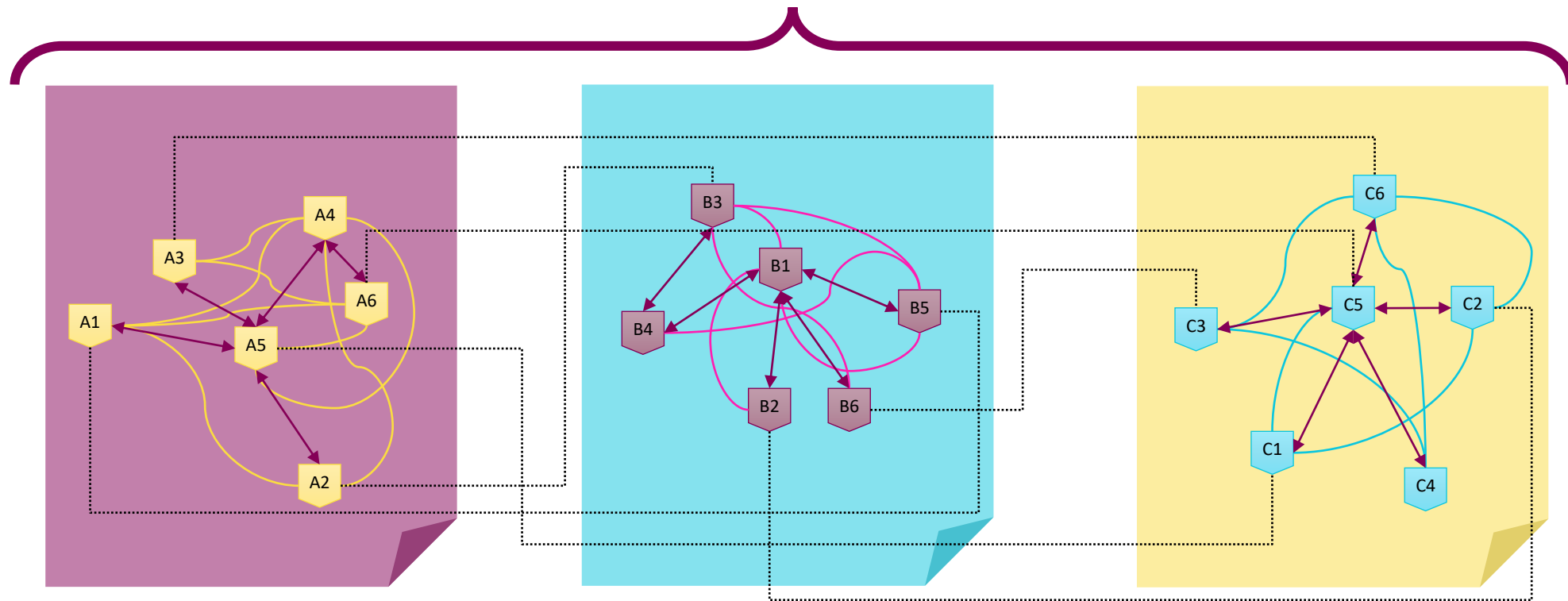


Swedish Armed Forces TDL Employment

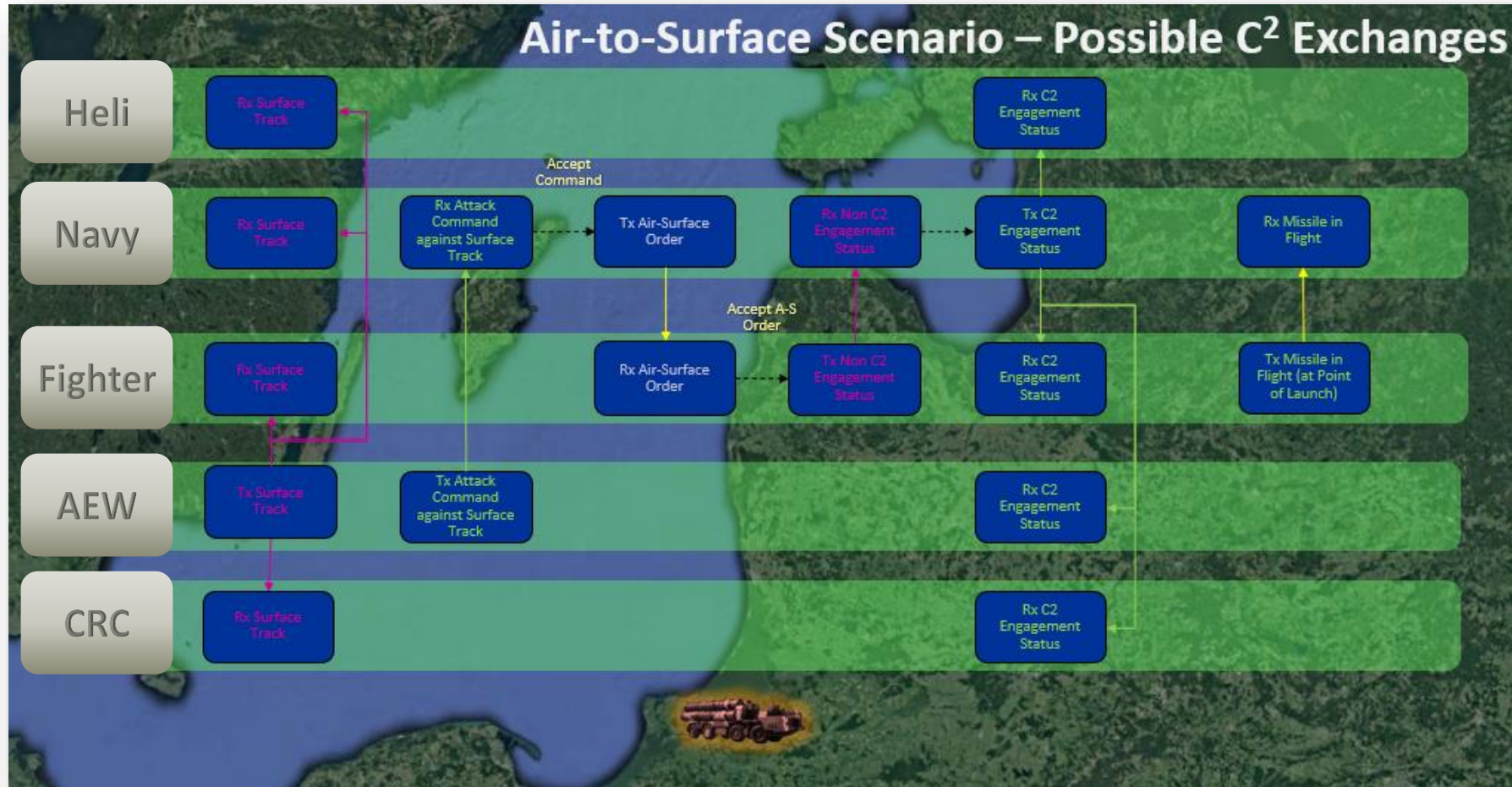


Complexity of TDL Requirements

Swedish Armed Forces Combined/Joint



Swedish Armed Forces IERs



DLCP Impact Assessment



DLCP Impact Assessment for NATO TDL-Equipped Platforms/Systems of the Swedish Armed Forces

Description: Impact assessment of NATO Data Link Change Proposals (DLCPs) on Swedish Armed Forces' TDL-equipped platforms/systems.
 Status: Deliverable Baseline M28 (2021-01-27)
 ATEQ Ref: ATEQ/P003/097/1.0
 NESP Ref: NESP-20-516 018
 Export Control: This deliverable has been exported under the terms of the United Kingdom Open General Export Licence (Technology for Military Goods) number GB0GE2015/00643.

Guide
 ML & L16 SL DLCPs - Generic
 L22 SL DLCPs - Generic

C2STRIC Impact Assessment
 GRIPEN Impact Assessment
 ASC 890 Impact Assessment
 GBAD Impact Assessment
 VISBY Impact Assessment

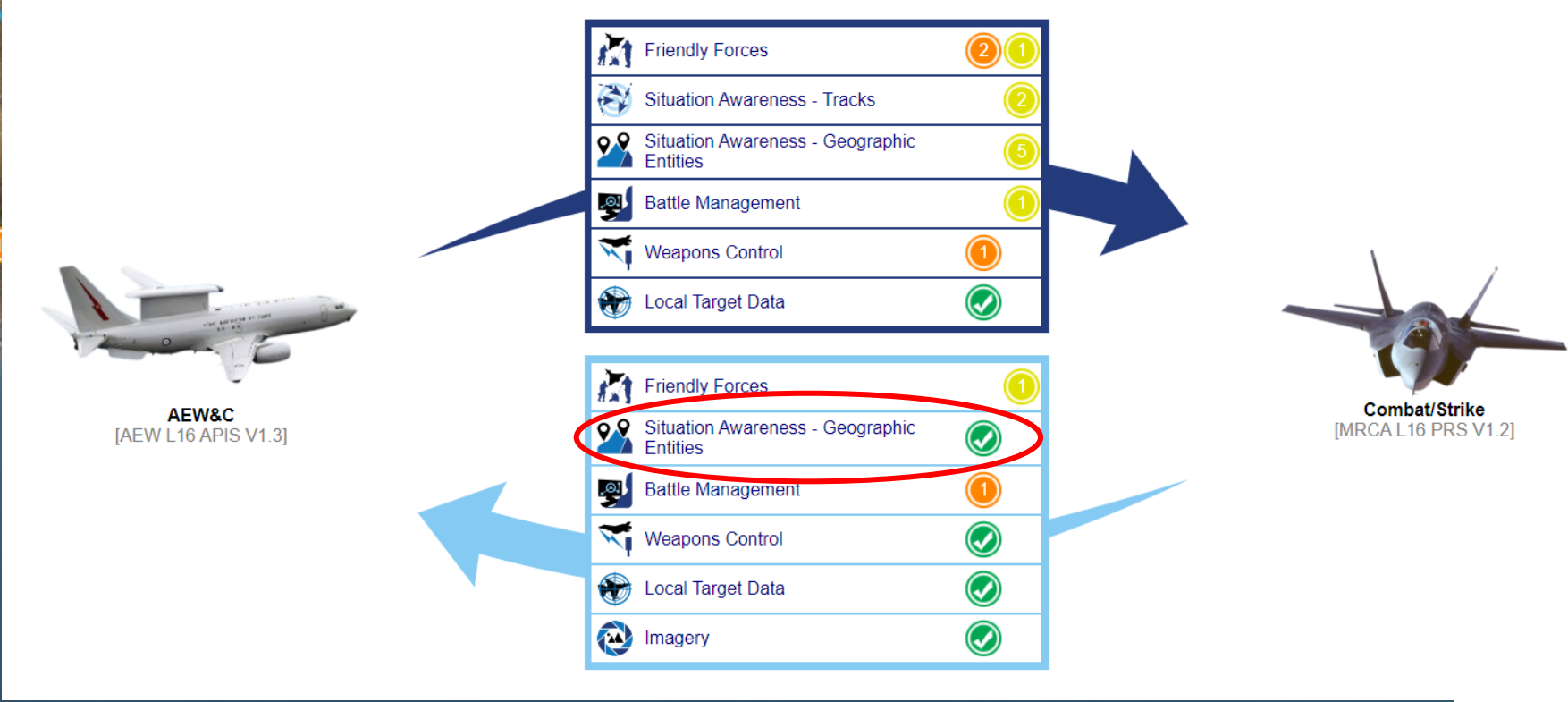
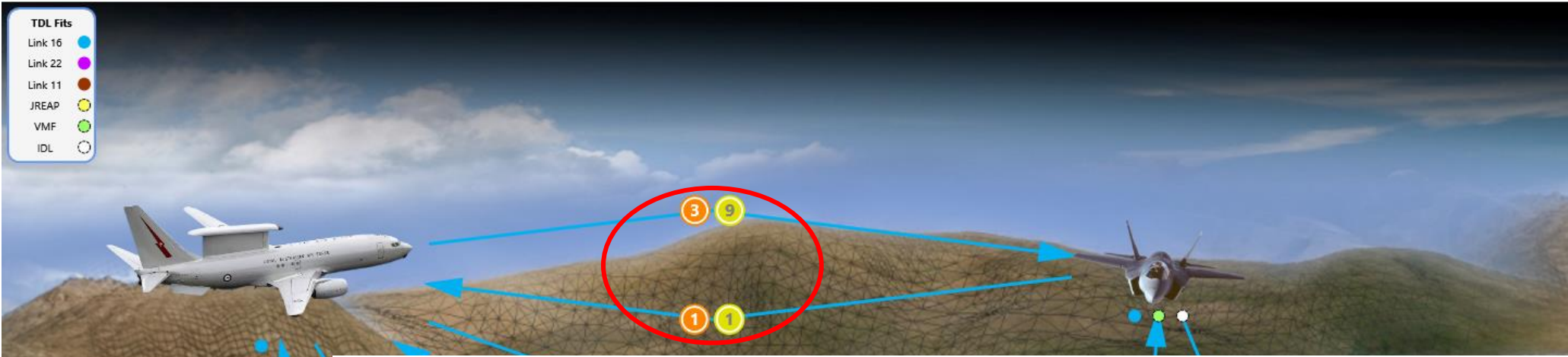


DLCP		
Korrigeringar / Förtydligande	Listor / Registervärd	Utveckling / Ny funktion
Relevanta		
Övrigt		

DLCP ID	DLCP Beskrivning	DLCP Typ	DLCP Status	DLCP Impact	DLCP Kommentar	DLCP Beskrivning	DLCP Typ	DLCP Status	DLCP Impact	DLCP Kommentar
DLCP 1
DLCP 2
DLCP 3
DLCP 4
DLCP 5
DLCP 6
DLCP 7
DLCP 8
DLCP 9
DLCP 10



- TDL Fits**
- Link 16 ●
 - Link 22 ●
 - Link 11 ●
 - JREAP ●
 - VMF ●
 - IDL





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 Display	MRCA does not identify "sensitive" Tracks on the display.

General Reference Point

A geographic reference point that reports a geographic entity to aid situation awareness (e.g Marshall Point,

Information Type	Issue
Reference Point Type	✔ No Known Issues
Location	⚠ Slaved Entities
Point Handling Attributes	⚠ Sensitive Tracks on

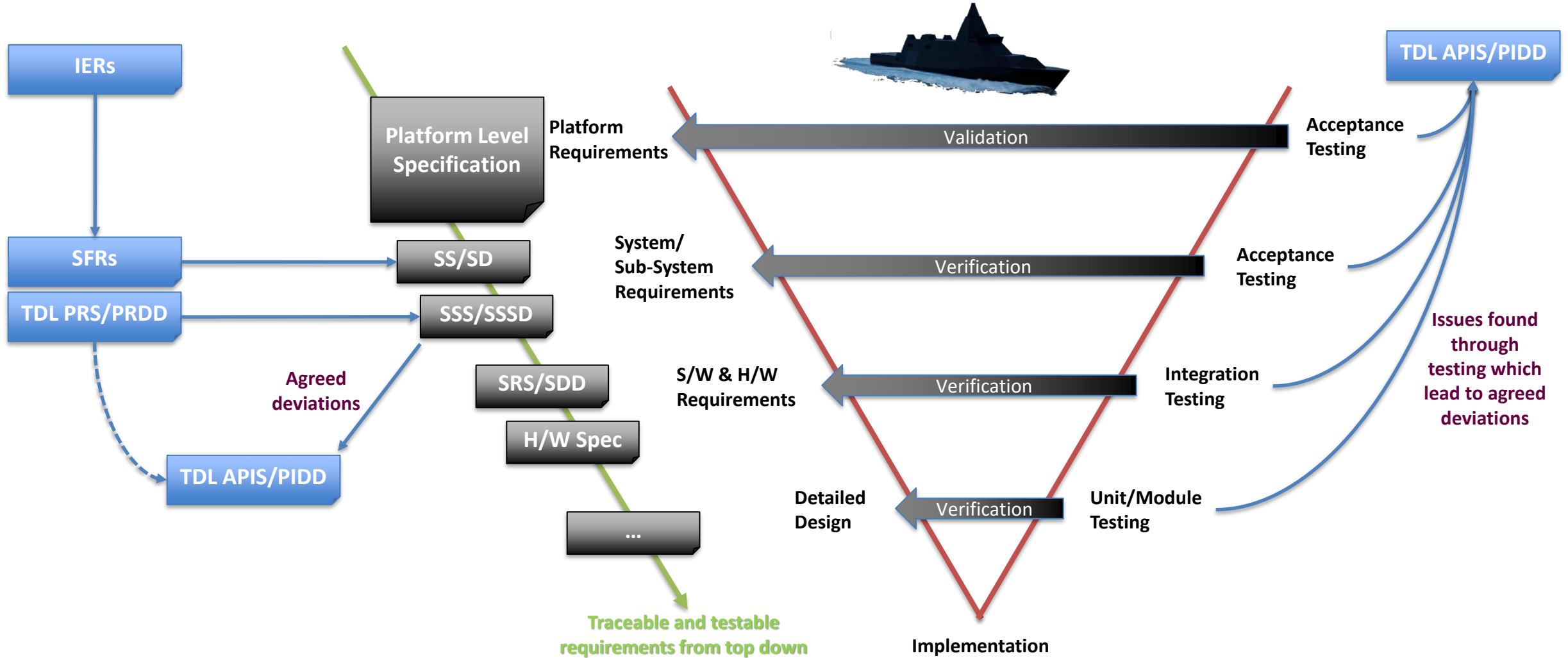
Land Object

A geographic object in the Land domain that has been derived from other than sensors

Information Type	Issue
Location	✔ No Known Issues
Identification	✔ No Known Issues

Name	Slaved Entities
Originator Number	MRCA (1301113) WISZY
Severity	⚠
Security Marking	UNCLASSIFIED
Releasability	FOUO
Operational Summary	MRCA may discard all slaved entities
Operational Description	There is a suspicion that MRCA may not display a geographic entity (point, line or area) which is slaved to another entity (e.g. a Track or PHL).
IO Conflicts Addressed	
Workaround	None available. Only fixed or independently moving entities will be displayed.
Technical Description	During the testing of JLD Reference Point the map reporting of MRZ slaved to a JLD was not displayed. The extent and scope of the problem are as yet unknown. It is noted that the MRCA's open slaves to such entities should be displayed.
Further Action	Further testing needed to fully scope the problem.
IOA Number	
IOI Numbers	
National Issue Numbers	
Issue Status	Under Investigation
Issue Applies To	MRCA (1301113) WISZY 130 Reference Point 1301113 REFERENCE POINT (PHL) (AREA) 1301113 SLAVED INDICATOR UNCLASSIFIED

TDL Verification & Validation



T&E – Testing for knowledge

FÖRSVARETS MATERIELVERK



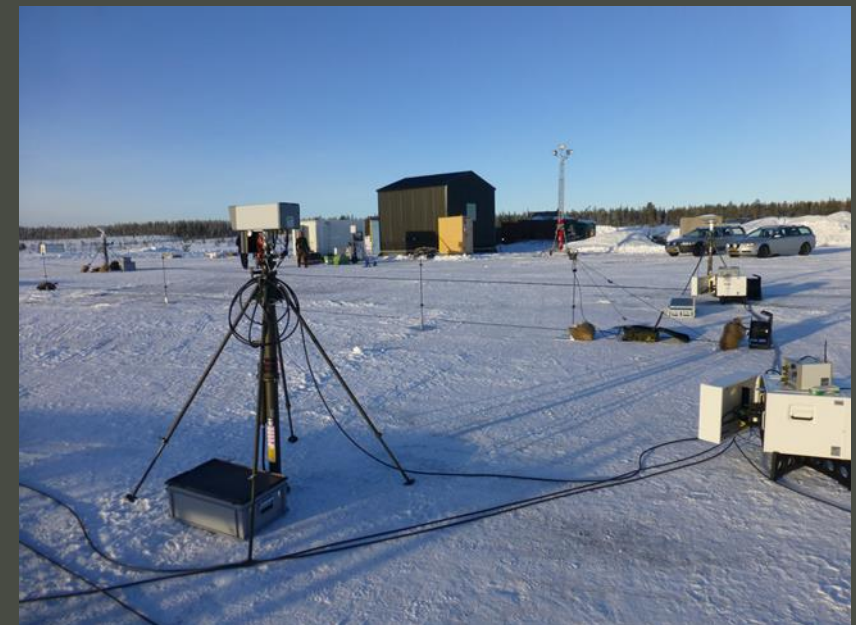
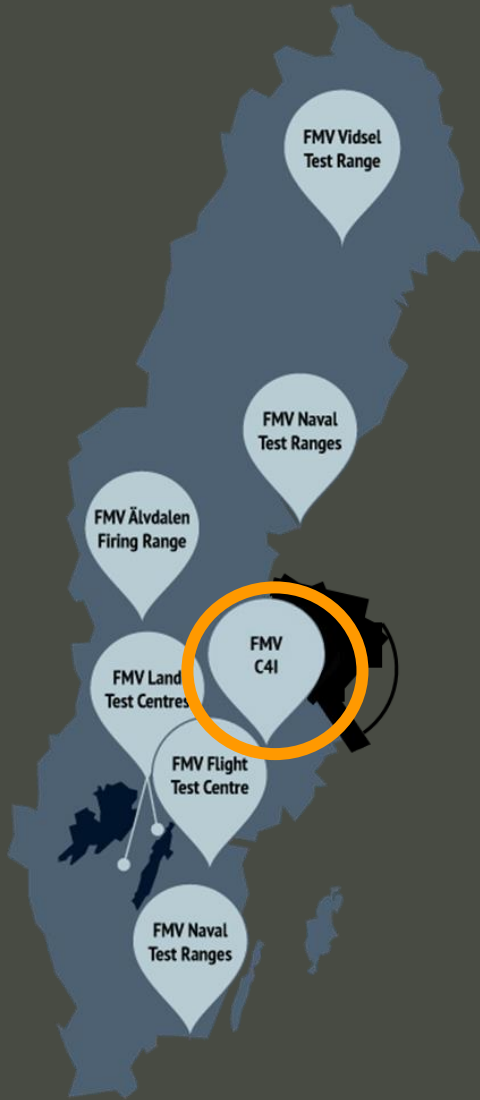
Testing for knowledge

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



T&E C4I – main task

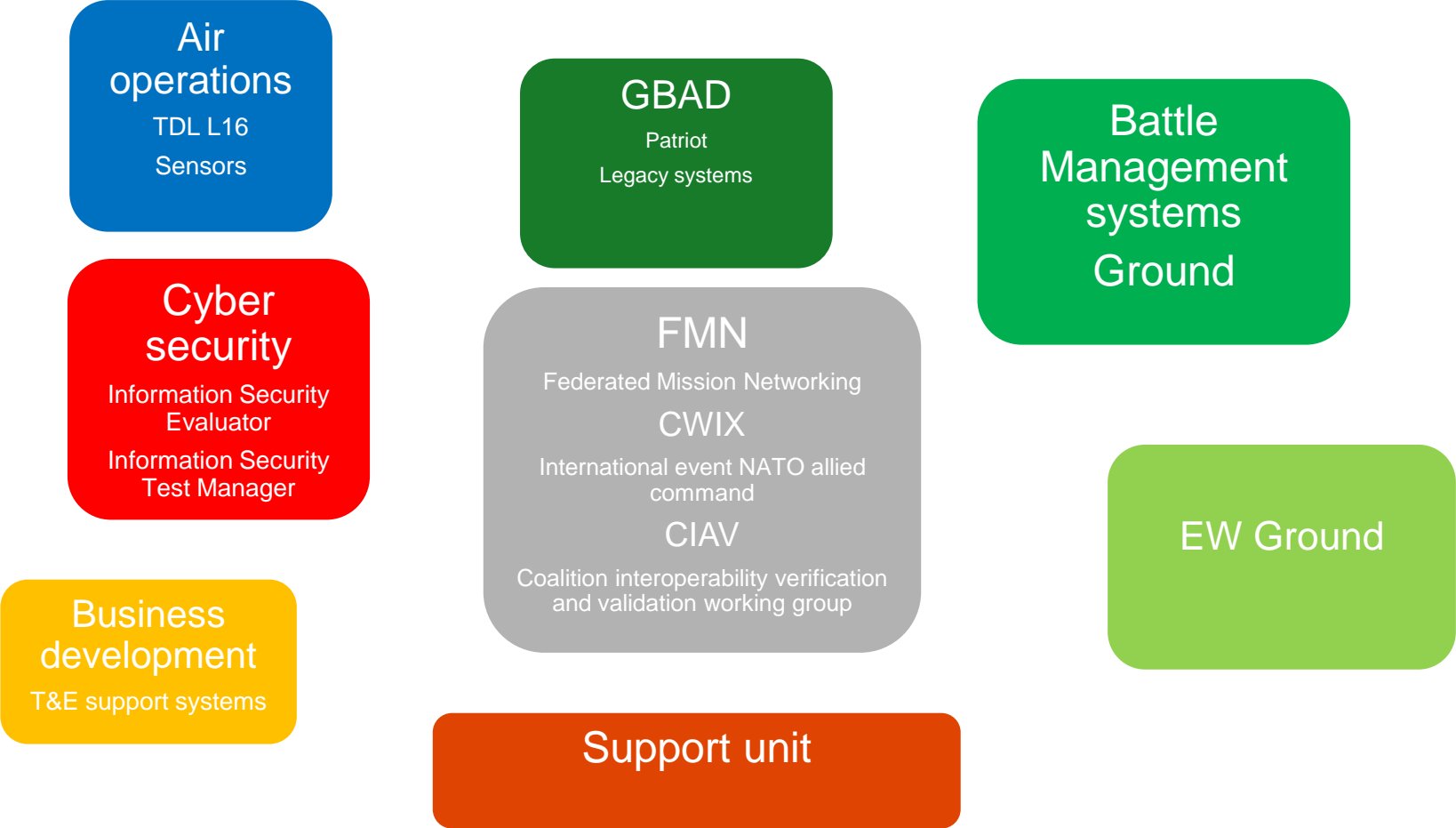
”Our main task is to Test and Evaluate the Swedish Armed Forces C4I-capability and how C4I-systems supports other capabilities”.



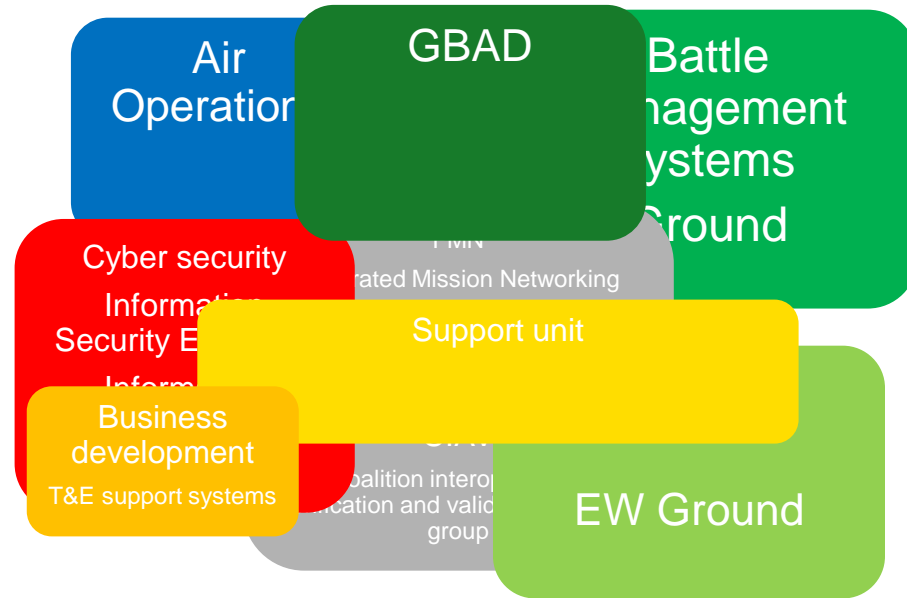
Area of operation



Area of operation



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
GBAD



Focus Tactical Units

- Functional scenarios within Air, Ground or Naval forces



GBAD TS







Fokus Plattform

- Functions within a platform or specific units

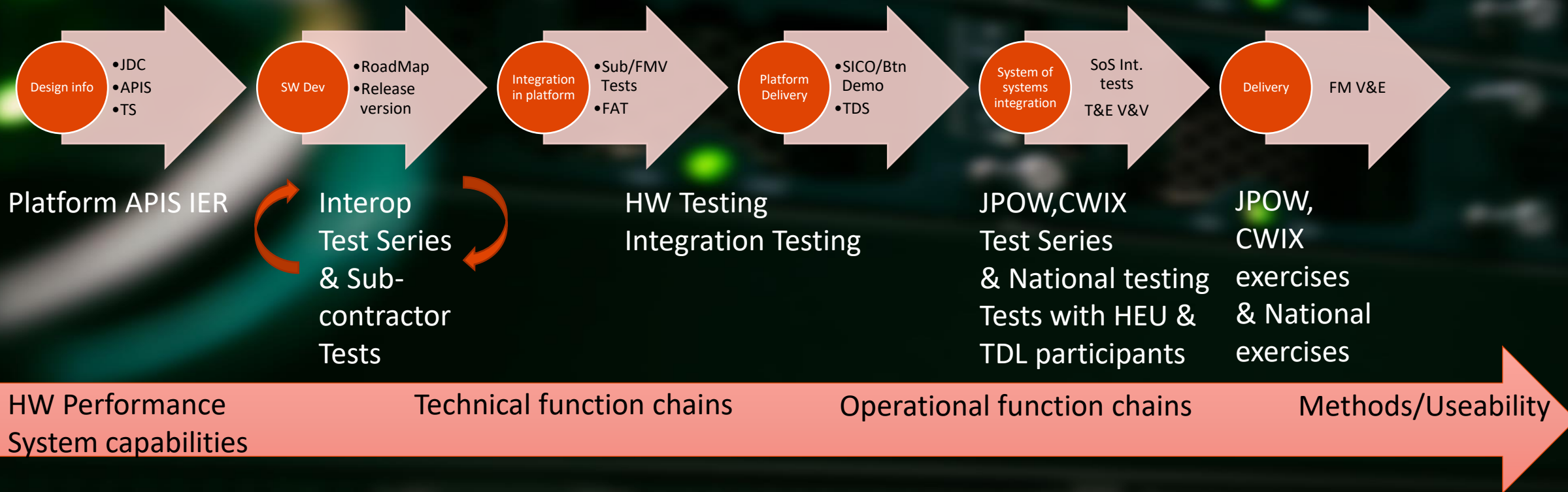


C2 units, Fire
units

Support from T&E on different levels

 <p>IMBLF</p>	 <p><i>Integrated functionality</i> FMV Integrated GBAD Program & T&E C4I</p>
 <p>MBLvTS</p>	 <p><i>Tactical unit</i> T&E C4I (Btn Demo) Aquisition Projects & T&E Ground forces (SICO)</p>
 <p>LvStriC, LvC O.S.V.</p>	 <p><i>Platform</i> Aquisition Projects & T&E Ground forces Sub contractor</p>

Process – Operational functionality focus



Contact

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