

TREN

connecting mobile forces



DEU/NLD update on
Tactical Edge Networking

WinnComm Europe
16-05-2019 in Berlin

OPERATIONAL NECESSITY



In order to **fight and win multi domain operations** on the 21st century battlefield we need at a minimum:

- Connectivity (connect all mobile elements)
- Sensor-to-Shooter-Battle-Management System
- Permanent mobility
- CEMA resilience
- Interoperability (aligned security measures)



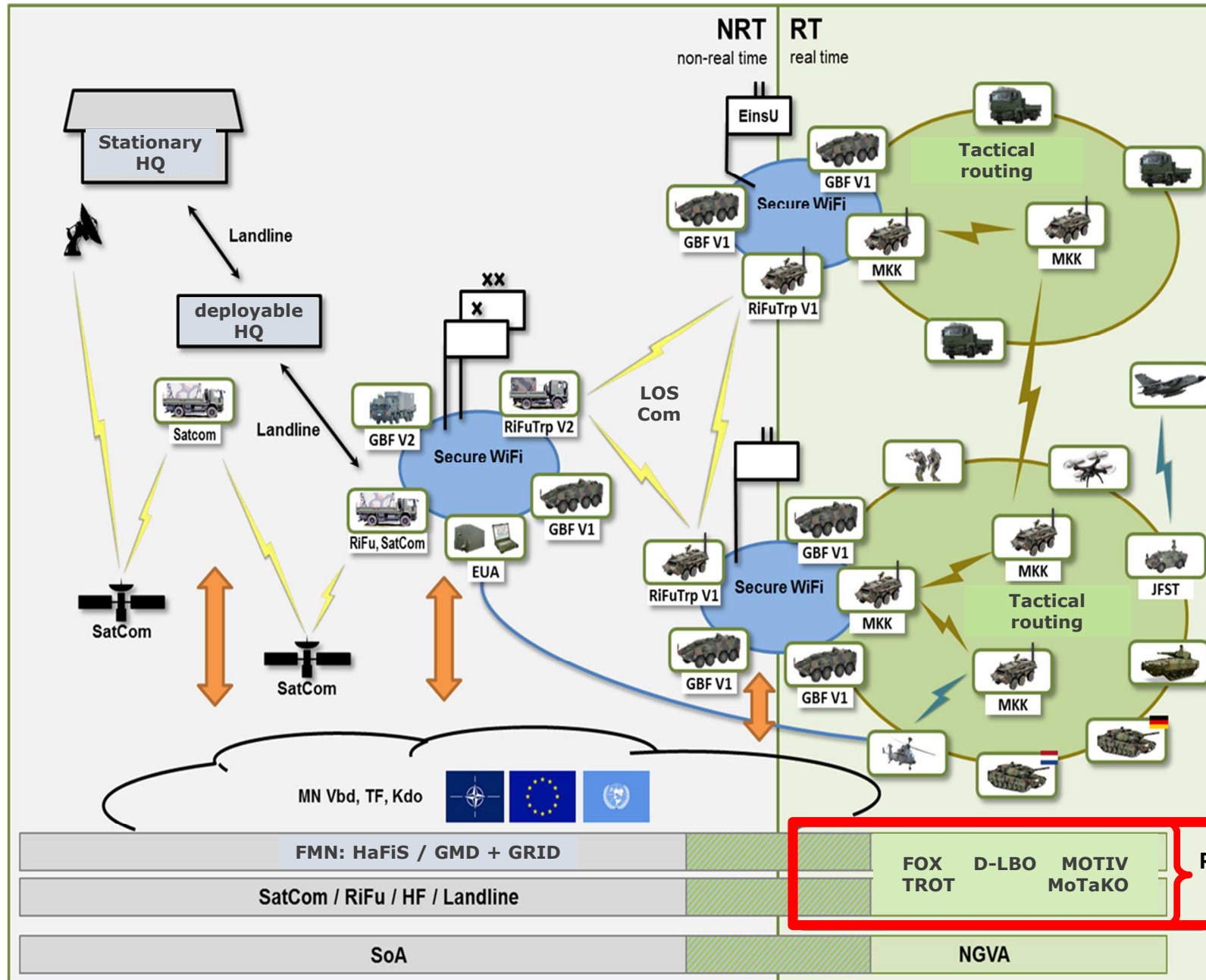
EFFECTS TO ACHIEVE



- Improve functionality
- Improve connectivity
- Improve interoperability
- Increase platform integration
- Mitigate identified EW & Cyber vulnerabilities
- (Meanwhile) Ensure continuity

Effect to achieve: every platform always securely connected and interoperable with partners in order to enable information directed actions at the tactical edge

"BIG PICTURE"



TRANSLATE AMBITION INTO ACTION



VISION

- One Set of Ops Requirements
- One Technical Solution
- One Shared Information Space

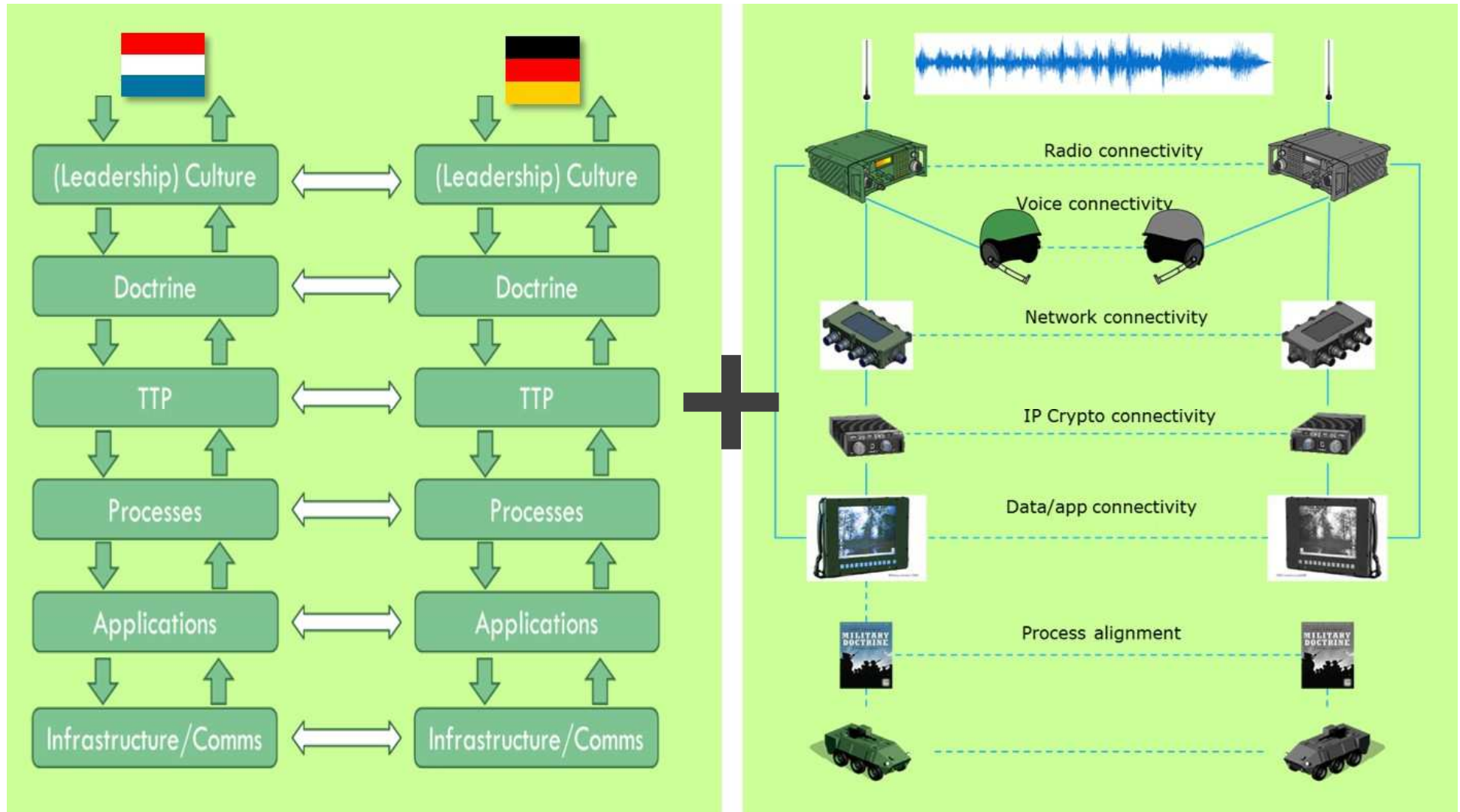
D-LBO FOXTROT



One Combined Program	
Scope	Spiral Development of common technical solutions
	Successive equipment of DEU and NLD land forces
Procurement	Competition: Avoiding vendor lock-ins
	Demonstration, rapid prototyping, experimentation
	Smart, Agile Procurement
Rollout & Service Introduction	OT&E with pre-series integrated fighting vehicles and dedicated test formations
	Combined System Integration Center for working on DOTMLPF-I
Operation & ISS	Operational Centers and Procedures aligned
	Full Host Nation Support

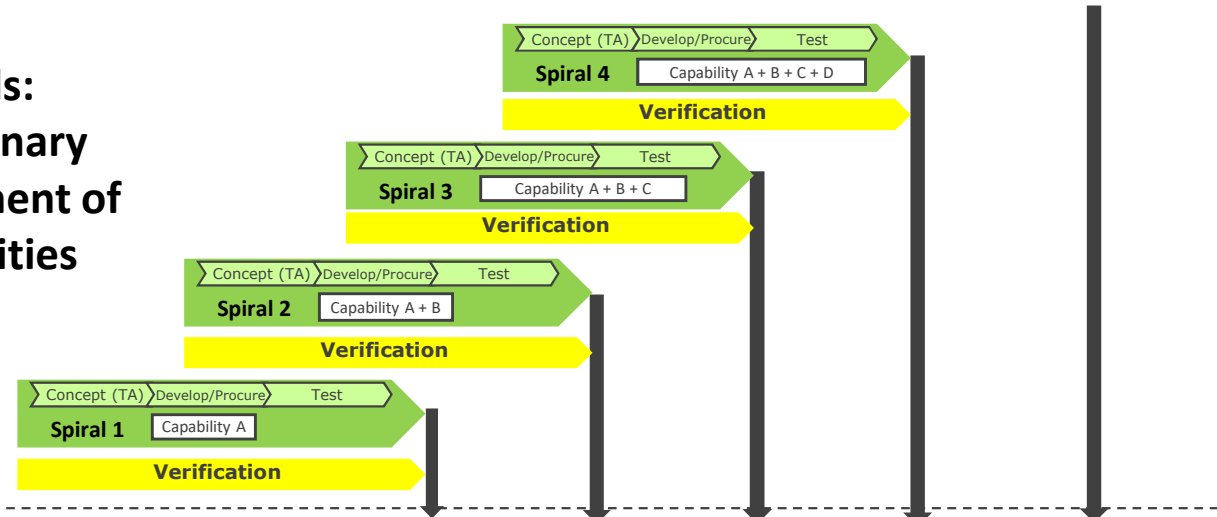
TACTICAL EDGE NETWORKING

- Fully integrated DEU-NLD operations
- Interoperability through common procurement and operation of identical systems



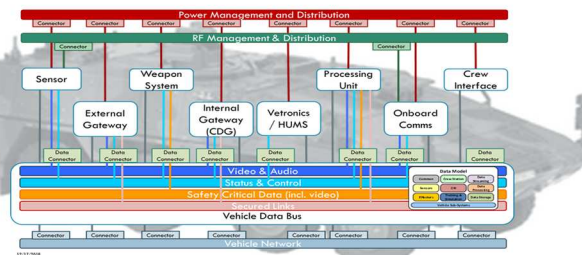
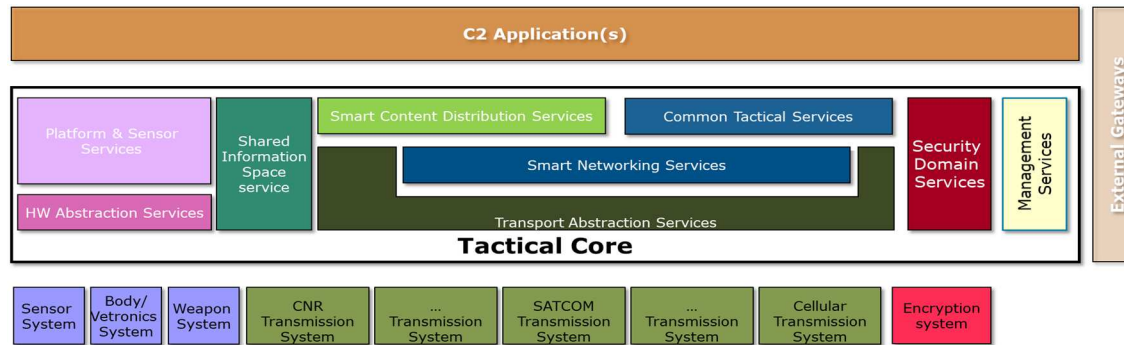
TEN: Roll-out of Capability Spirals to Force Packages (FP) (Principle)

Spirals:
Evolutionary
Development of
Capabilities



FP	DEU Size of formati on	DEU Unit No.	NLD Size of formati on	NLD Unit No.	Roll-out Package	Roll-out Set	Roll-out Package	Roll-out Package	Roll-out Package
					# 1	# 2	# 3	# 4	# ...
# 1	Bttn +	tbd	Bttn?	tbd	Yes	Yes?	?	- ?	- ?
# 2	e.g. Bde	tbd	tbd	tbd	-	Yes?	?	- ?	- ?
# 3	e.g. Bttn?	tbd	tbd	tbd	-		Yes ?	- ?	- ?
# 4	e.g. Bde?	tbd	tbd	tbd	-		-	Yes ?	Yes?
# 5	e.g. Coy?	tbd	tbd	tbd	-		-	-	Yes?
..	-	-	-	?	?

Vehicle Integration & Standardisation



MAJOR TEN MILESTONES



- 05.2018: DEU-NLD LoI signed
 - 09.2018: Kick-off meeting of DEU-NLD Working Groups
 - 03.2019: DEU-NLD Power Workshop at Bad Neuenahr
-
- 07.2019: DEU-NLD MoU to be signed
 - 12.2019: Combined Program Office established
Specifications 1st delivery ready
 - 02.2020: RfI – Initiation of tendering process
 - 07.2020: RfQ for Demonstration & Validation
 - 10.2021: Start of Demonstration & Validation Exercises
 - 01.2023: Start of Roll-out of First Unit Equipped (FUE)
 - 12.2024: FUE equipped: DEU-NLD „Force Package FP 1“

PLEASE ADDRESS ANY QUESTIONS



LEADING TEAM TEN



Col (GS) Robert Miedema
Program Leader FOXTROT TEN
DMO - Joint IT Command

+31 (0)6 30 30 32 27
r.miedema@mindef.nl

LTRDir Christian Peters
Program Leader D-LBO TEN
BAAINBw I – D-LBO TEN

+ 49 (0) 261 400 22600
christianpeters@bundeswehr.org

