

Context:

A German Defense Organization launched a new program for a new integrated architecture solution in land-based tactical military operations called D-LBO.

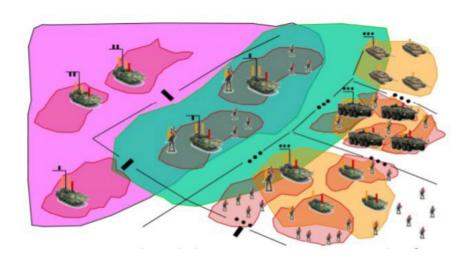
D-LBO aims at enabling distributed and simultaneous operations of land forces throughout the areas of strategic interest.

The operations include the war-fighter in the system development process from the beginning and takes a overall system of systems approach, avoiding isolated solutions, and building on existing COTS/MOTS solutions and standards

The System of systems architecture must be formalized according to international standards and modelled.

Approach:

Apply the NATO Architecture Framework (NAF) to model the D-LBO system of systems Environment. The scope includes Procurement volume and required integration of 8 task forces, approx. 90.000 radios (vehicular, manpack, handheld) and approx. 25.500 vehicles (350 types)



	Advanced measures	TF & Capability oriented deployment							
	due to Obsolescence	TF 1	TF 2	TF 3	TF 4	TF 5	TF 6	TF 7	TF 8
SECRET Communication	50 C2 Vehicles (23 AIFV PUMA 27 MRAV BOXER)	Equ	iipping ichs, F	of 325 ennek	C2 ve	hicles ard, BV	(Enok 206, W	Dingo (iesel)	,)
VHF/UHF Tactical Radio	AIFV PUMA MRAV BOXER	Equipping of fighting and functional vehicles in a set of forces oriented approach							
	Future Soldier System	Equipping of further dismounted troops in a set of forces oriented approach							
Cellular Networks (TETRA /LTE)	TETRA DE LA CONTROL DE LA CONT	Equ	ipping vorks i	with n	nobile of force	or depl	loyable ented a	e cellul approa	ar ch
SOTM		Equi	pping	in a se	t of for	ces ori	ented	approa	ich
HF Radio	-	Equi	pping	in a se	t of for	ces ori	ented	approa	ich
Common Assets	Common control and display IT-Services for mobile elements	Equi	pping i	in a set	of for	ces ori	ented	approa	ich

Results:

- Development of a system of systems architecture that includes Solution Architecture Framework based on NAF & System/Service Design
- Deployment of an agile way of working in dealing with new requirements, releases and change Management
- 03 Incremental development of the new architecture solution
- Modelling of Standardized installation, integration, and infrastructure

