

Royal Netherlands Air Force

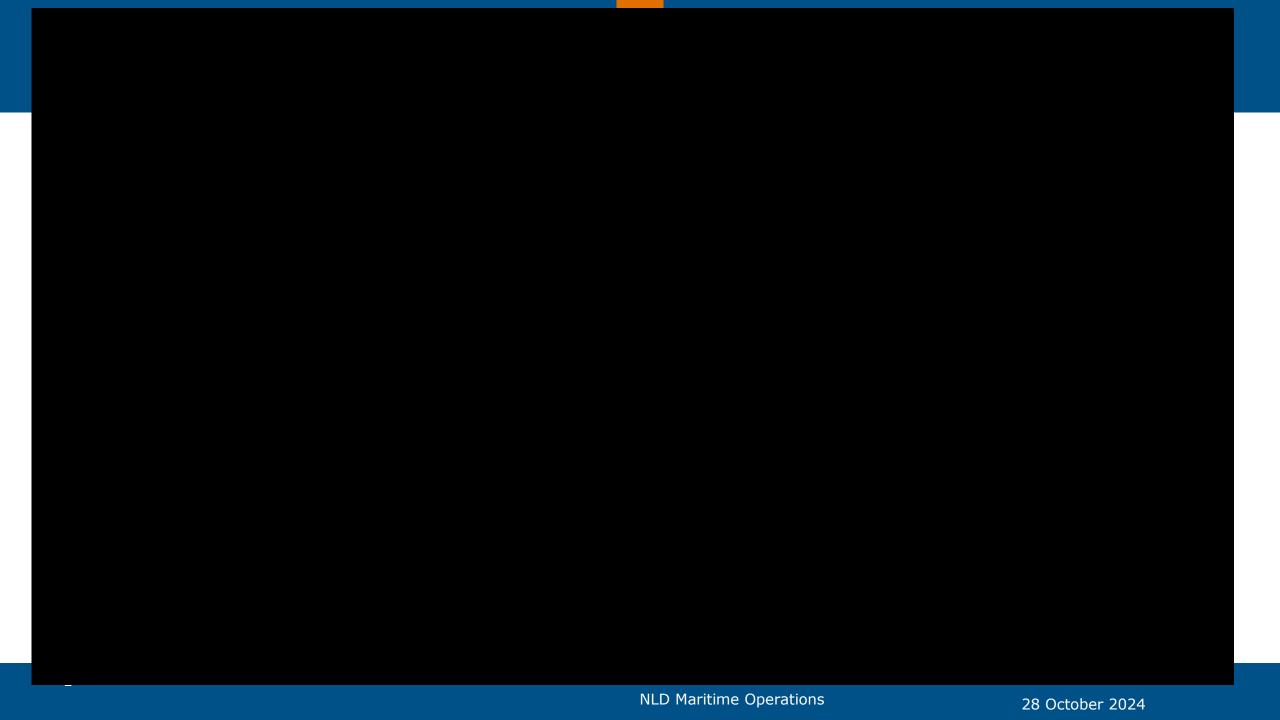


NLD Maritime ISR operations



Royal Netherlands Air Force program management, NH90 LtCDR JR van Doorn

28 October 2024





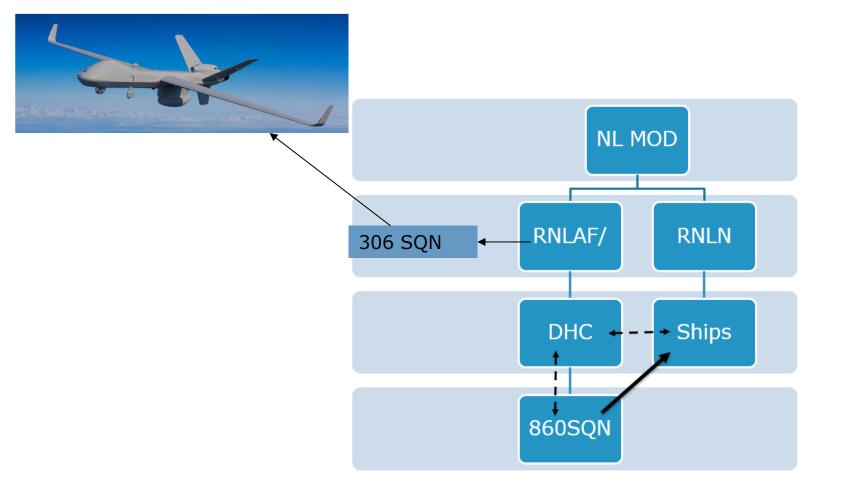
Contents

- The construct
- Areas of operations
- NLD Toolbox for maritime ISR
- Developments & challenges
- Food for thought



Maritime ISR toolbox







deployments

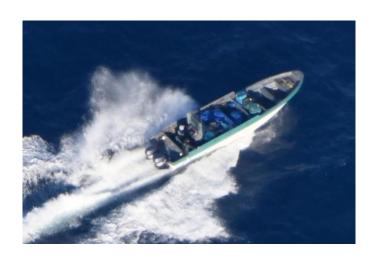


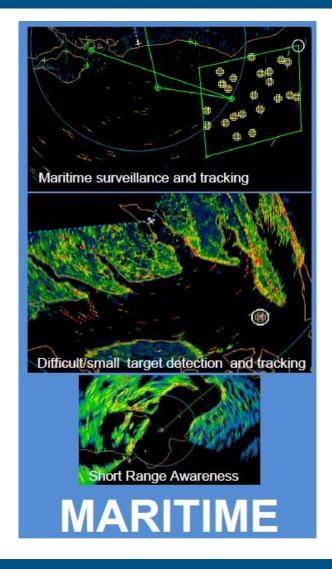


MQ9



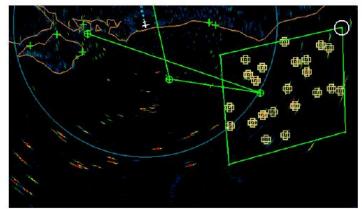




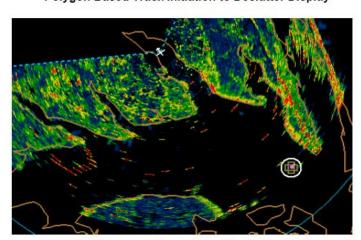




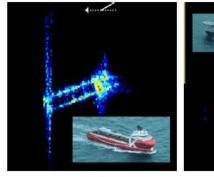
Key Capabilities – Maritime Domain



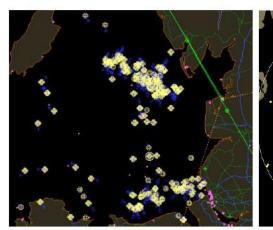
Polygon Based Track Initiation to Declutter Display



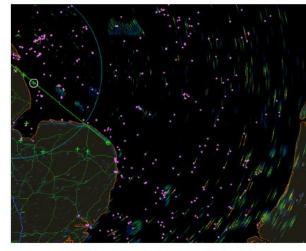
High Performance Small Target Detection Mode



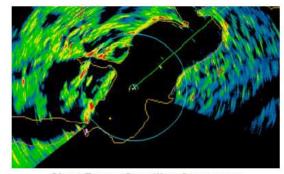
High Resolution ISAR Imaging



Global Automatic Track Initiation with Landmass Rejection



Long Range Maritime Surveillance

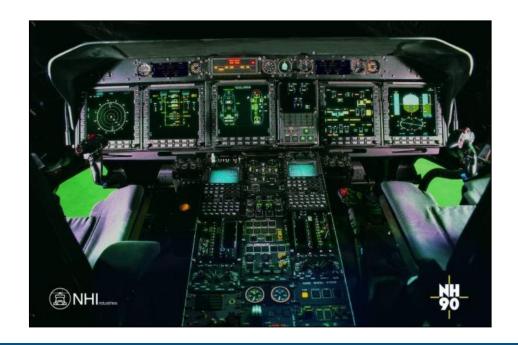


Short Range Coastline Awareness

Introduction NH90



- •Composite airframe NFH-TTH
- •Full digital fly-by-wire
- •Single Pilot Multi Crew Composition (SPMCC)
- •Integrated Core & Mission system





The swiss pocketknife

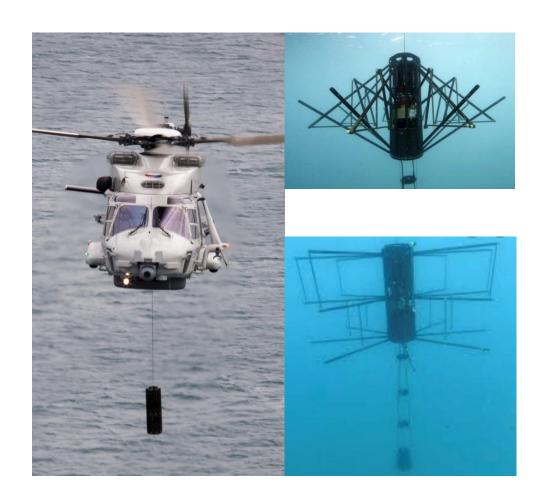


- ASuW
- ASW
- Transport (amphib)
- SAR
- ELINT/EW
- HADR
- MK46 torpedo
- MAG-M3M

Sensors



- Active Sonar
- Long range radar 360
- AIS
- Sonobuoys
- IFF interrogator M5
- DL11.....
- ESM
- FLIR



Challenges we are facing



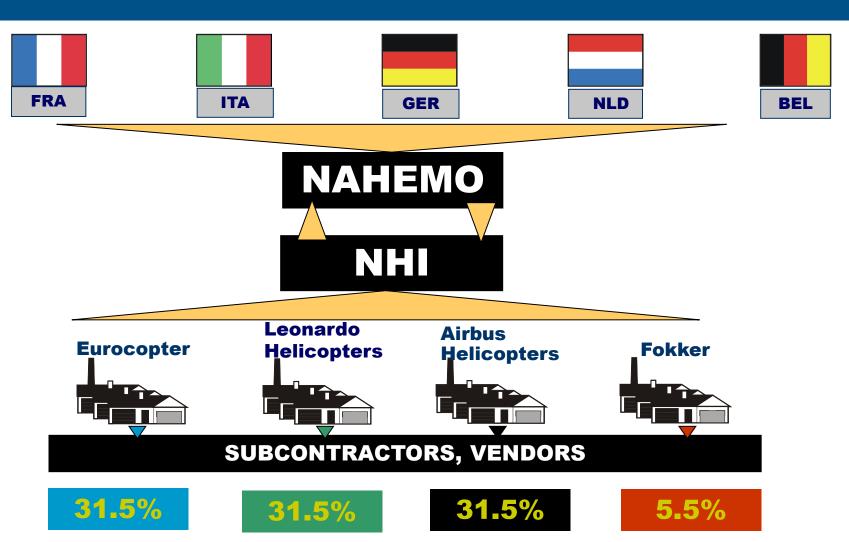
- "co ownership" → Navy centric tasking vs AF led organization;
- Tempo of advancing technology vs risk acceptance in aviation;
- Competing partners in industry.

Standalone MPs Lead time between NHI and Customer



Governance external

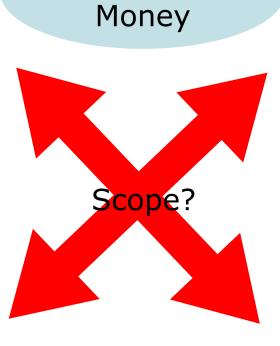




Advanced chess game









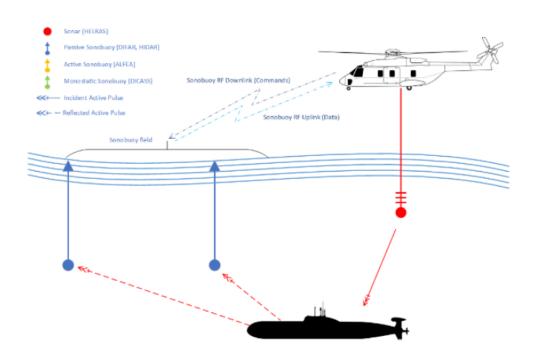




MLU 2028 -2032



- 1. Software update
- 2. Datalink 22 incl new radio's
- 3. New EOS (FLIR)
- 4. Sonar-upgrade (multistatic)
- 5. MK54-torpedo integration
- 6. SATCOM
- 7. Integrated AIS
- 8. CRPA
- 9. EAPS (sandfilters)
- 10. ESM NG
- 11. CMA 9000 (IFR)
- 12. FMFT (simulators)



General challenges

- Technical personnel;
- Dual tasking;
- Simulator availability;
- Transition from peacetime (support) organisation to "war"-mode;

Budget-constraints lifted, mindset and manning to follow!





Solutions



- 6,5 <u>can</u> be acceptable.
- Fight through.
- Share expertise (complicated business!)



Questions, food for discussion



- How can we decrease time from good idea to operational capability?
- Did we reach a pivot point where improved technology is slowing us down?

