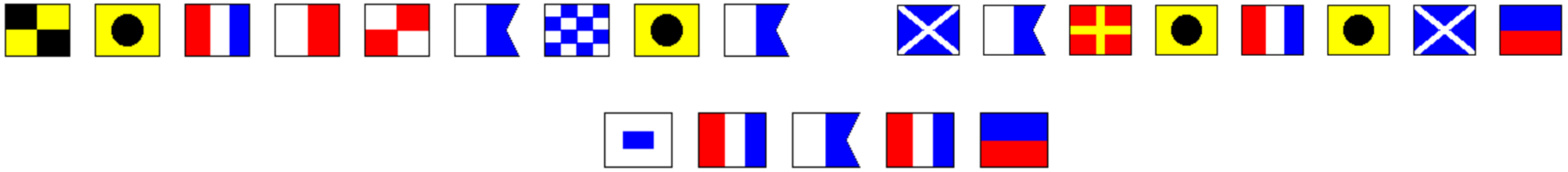
UNMANNED TECHNOLOGIES IMPLEMENTATION IN LITHUANIAN NAVY FLEET



LT(N) Vytautas Drejeris
Commanding Officer
LNS “KURŠIS“ (M54)

CONTENT

1. Baltic sea operational environment
2. MCMV regeneration: upgrading sensors
3. Improved hull-mounted wideband mine hunting sonar
4. Combining conventional and autonomous MCM systems

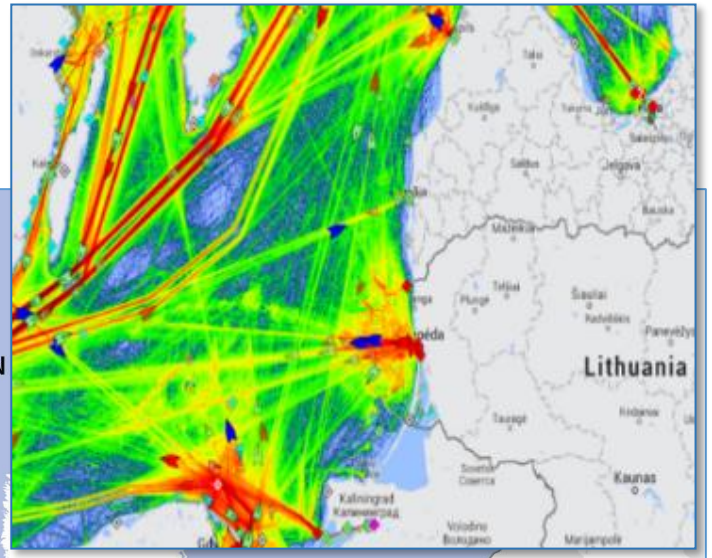
BALTIC SEA OPERATIONAL ENVIRONMENT

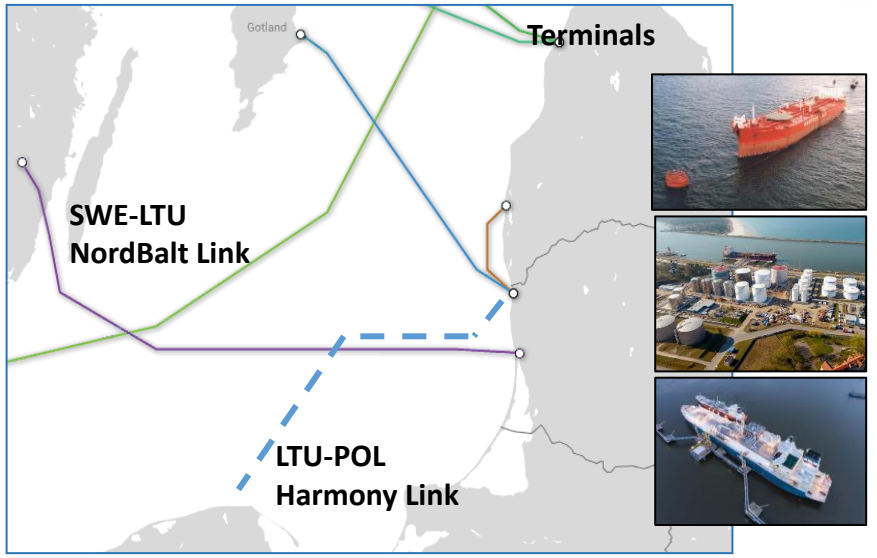
~6,24% LTU GDP

~50% LTU cargo

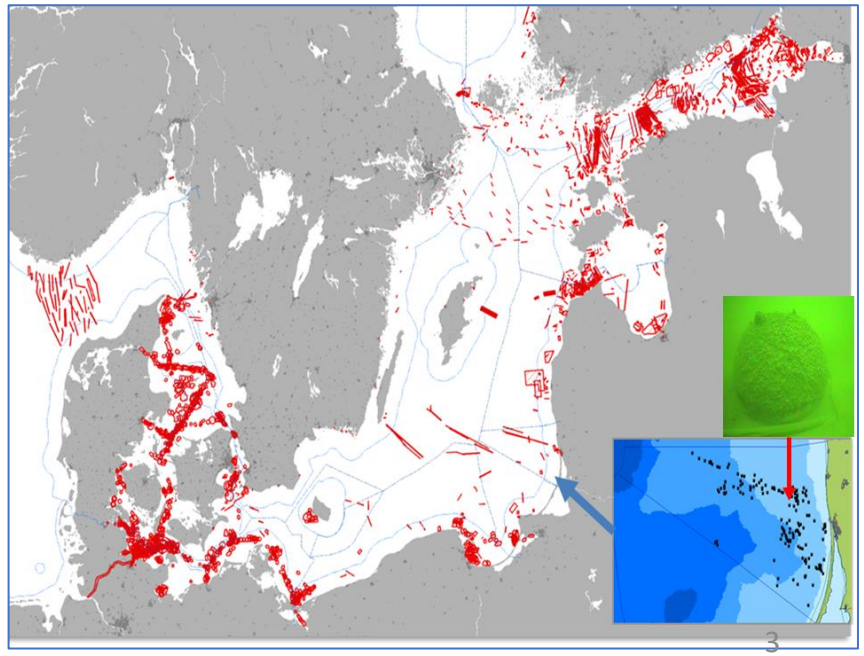
~58 000 work places

100 ships carrying flag

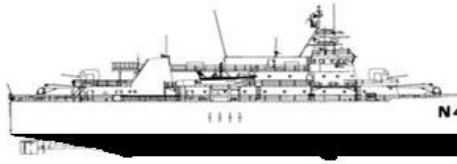


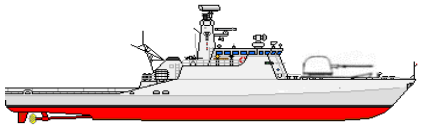


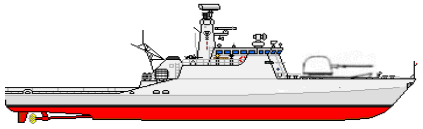
- AOI
- SAR
- LTU TW/EEZ
- Special AOI

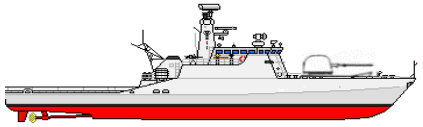


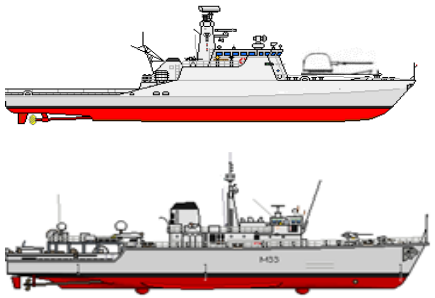
LITHUANIAN NAVY FLEET DEVELOPMENT CONCEPT











2030 TRANSFORMATION 2035

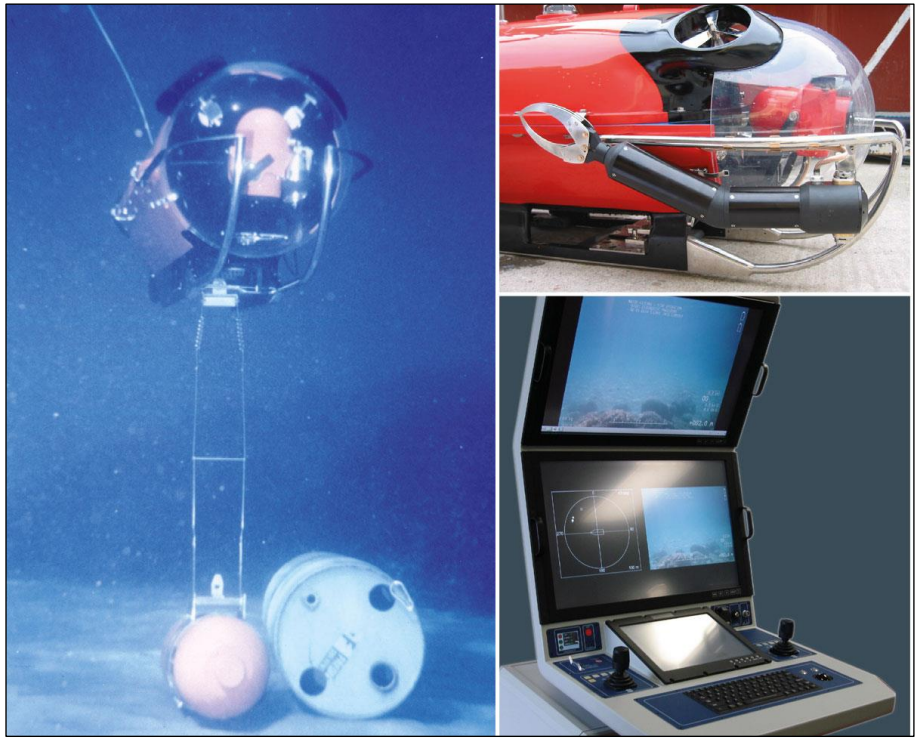
- SIMPLIFIED LOG SUPPORT AND PERSONNEL TRAINING
- OPERATIONAL FLEXIBILITY
- MORE SUBSTANTIAL CONTRIBUTION TO NATO/EU
- ACTIVE ENGAGEMENT WITH INDUSTRY AND R&D

MCM suite

MCM suite

All provided visuals are purely associative

MCMV regeneration project (Ex HMS Quorn)

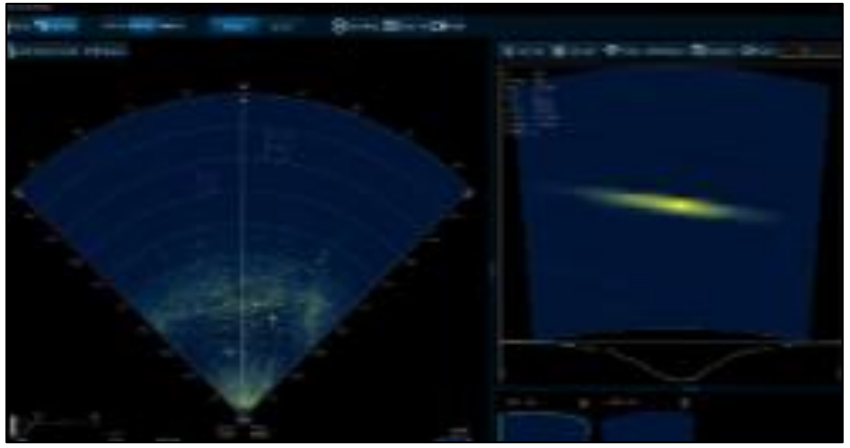


MCMV regeneration project (Ex HMS Quorn)

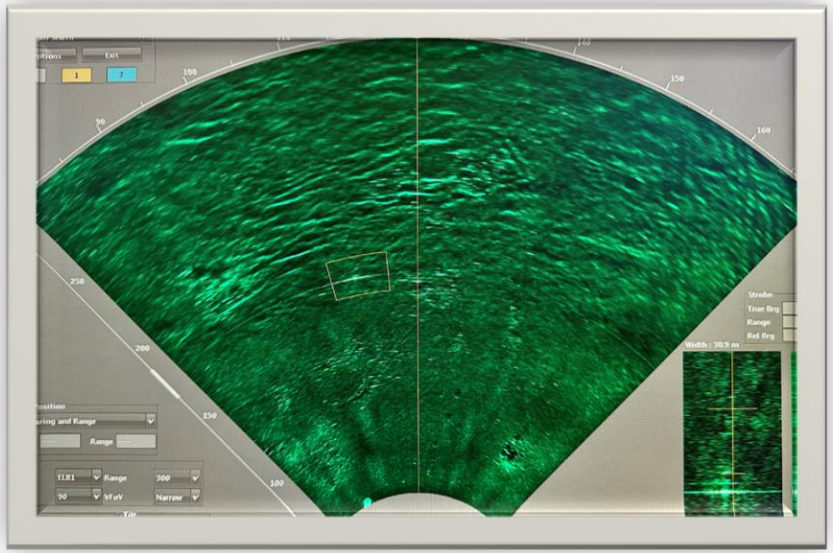
MSI - DS30M SeaHawk DS30M A1 (Bushmaster 44S 30 mm gun)

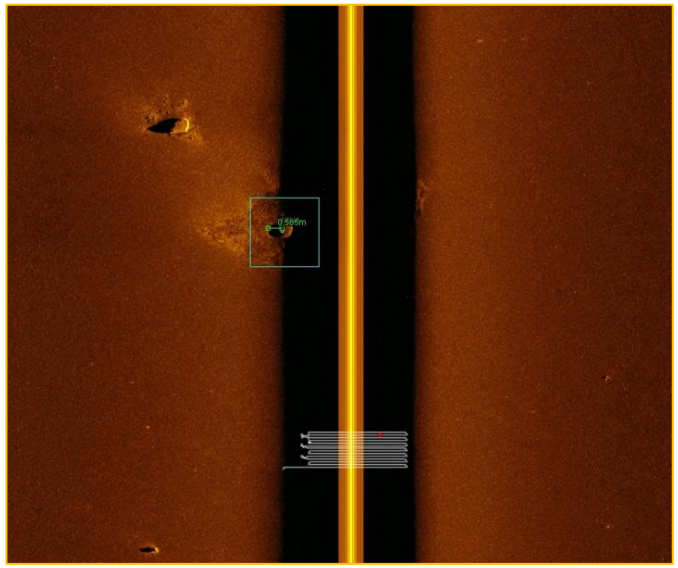
IdRobotica PILOTA C2 system

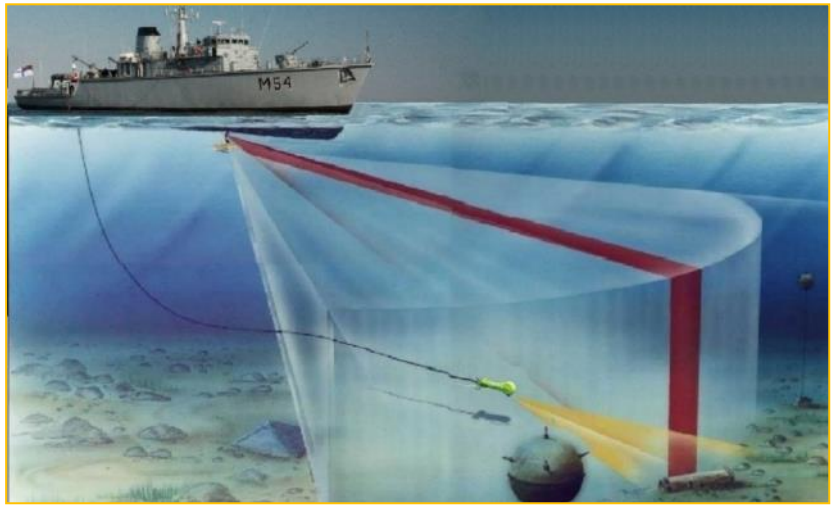
Teledyne SeaBat 7123-MkII sonar



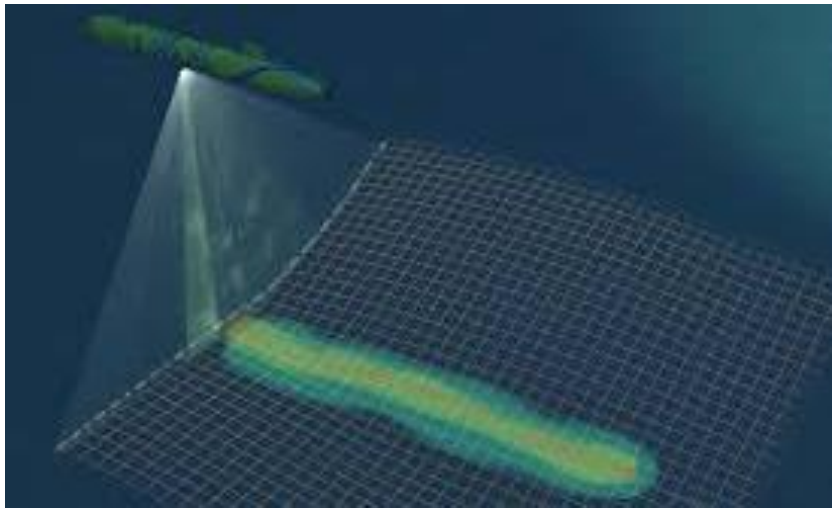
Combining conventional and autonomous MCM systems



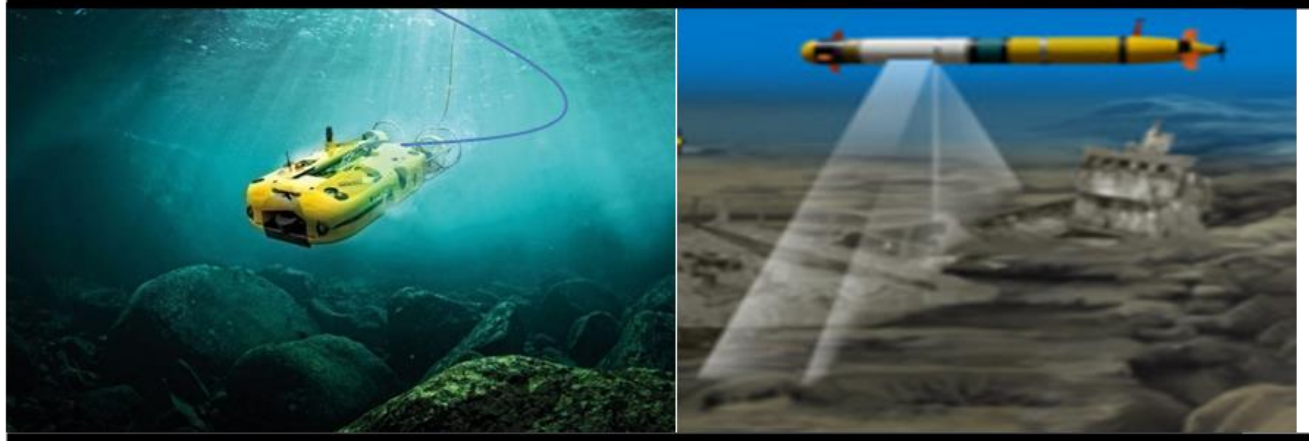




Combining conventional and autonomous MCM systems



Bottom type A-B



Bottom C
Thermal layers
Depths > 80 m
Bottom D

KEY CONSIDRATIONS

- **Challenges in Unmanned Technologies:** Rapid growth in unmanned technologies poses challenges like integrating with legacy systems.
- **Synergy with Manned Platforms:** unmanned systems won't fully replace manned ones in the near future, emphasis lies on optimizing synergy between the two.
- **Areas for Collaboration:** Strategic collaboration areas include autonomy, payloads, design, testing, and common doctrinal development for seamless integration.
- **Role of NATO COEs:** Recognizing NATO Centers of Excellence is pivotal for leveraging expertise and advancing capabilities in unmanned technologies.

Questions

To the prosperity of Maritime state!