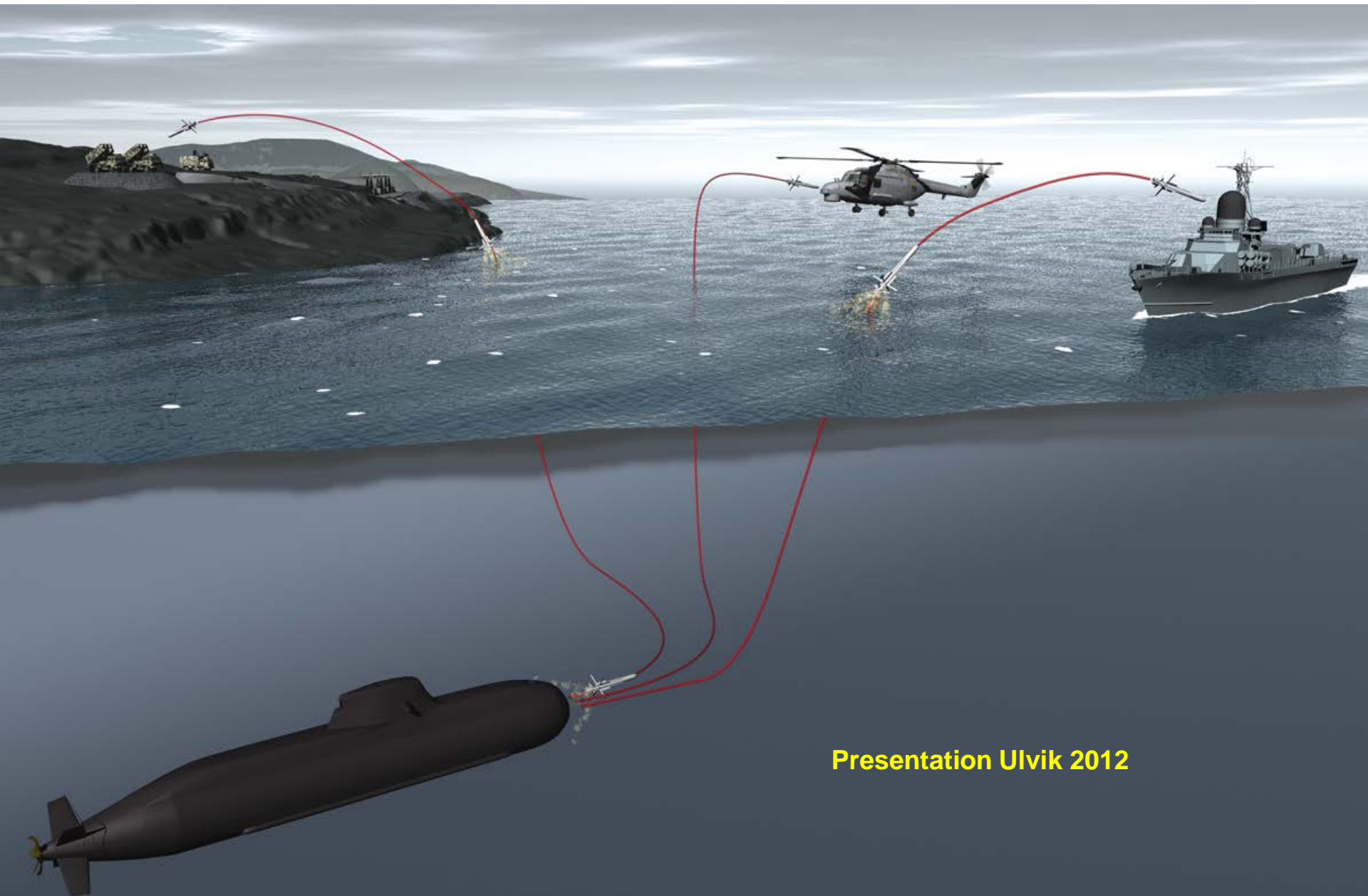
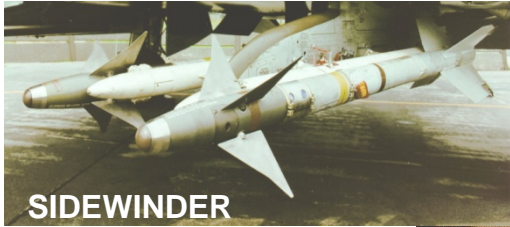


# Interactive Defence & Attack System (IDAS)



Presentation Ulvik 2012

- **Concept of IDAS Missile System**
- **Status of Program**
- **Initial Development Program (IDP)**
- **Integration into ULA Class Submarines**



- Integration into the Sub
- Speaker of IDAS Consortium

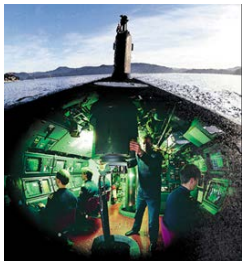
**DIEHL**  
BGT Defence

- Missile IDAS
- FO-System
- Missile Control Panel

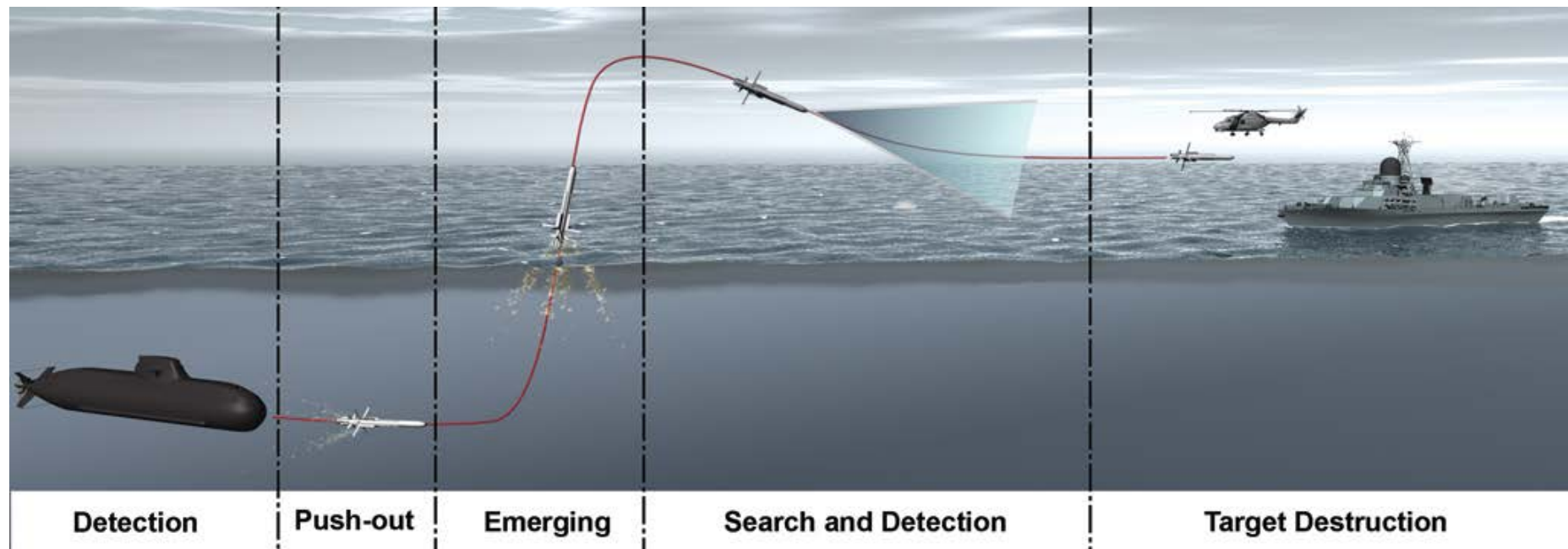


Nammo Raufoss (NOR)

➔ Cooperation Partner to IDAS Consortium  
Design & Construction of Rocket Motor

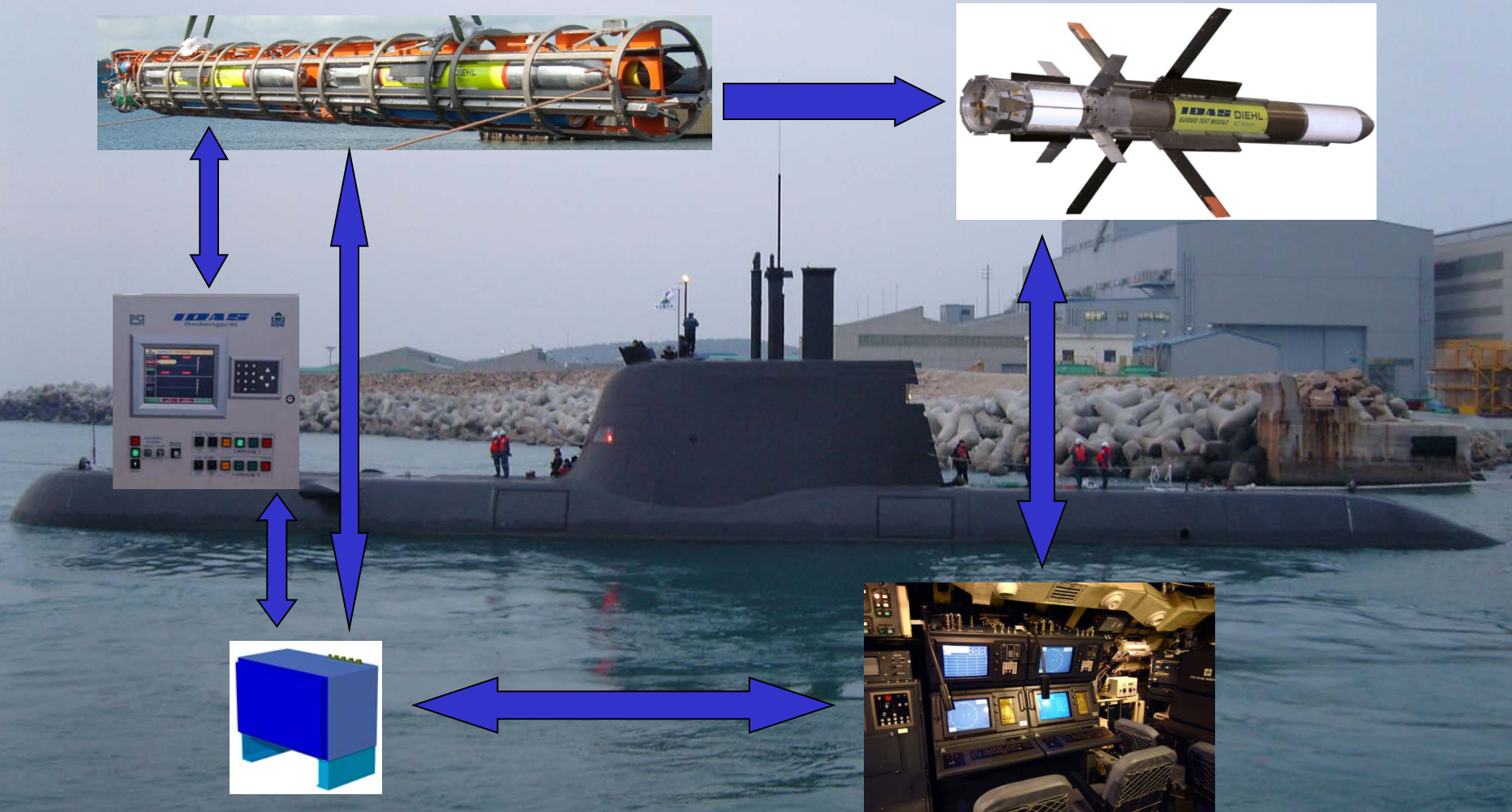
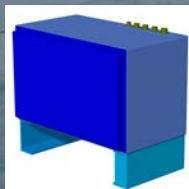


Kongsberg Defence & Aerospace (NOR) ➔ Potential Cooperation Partner to IDAS Consortium  
Missile Design (Shares) / Missile Control Panel





# The IDAS Weapon System – Main Elements

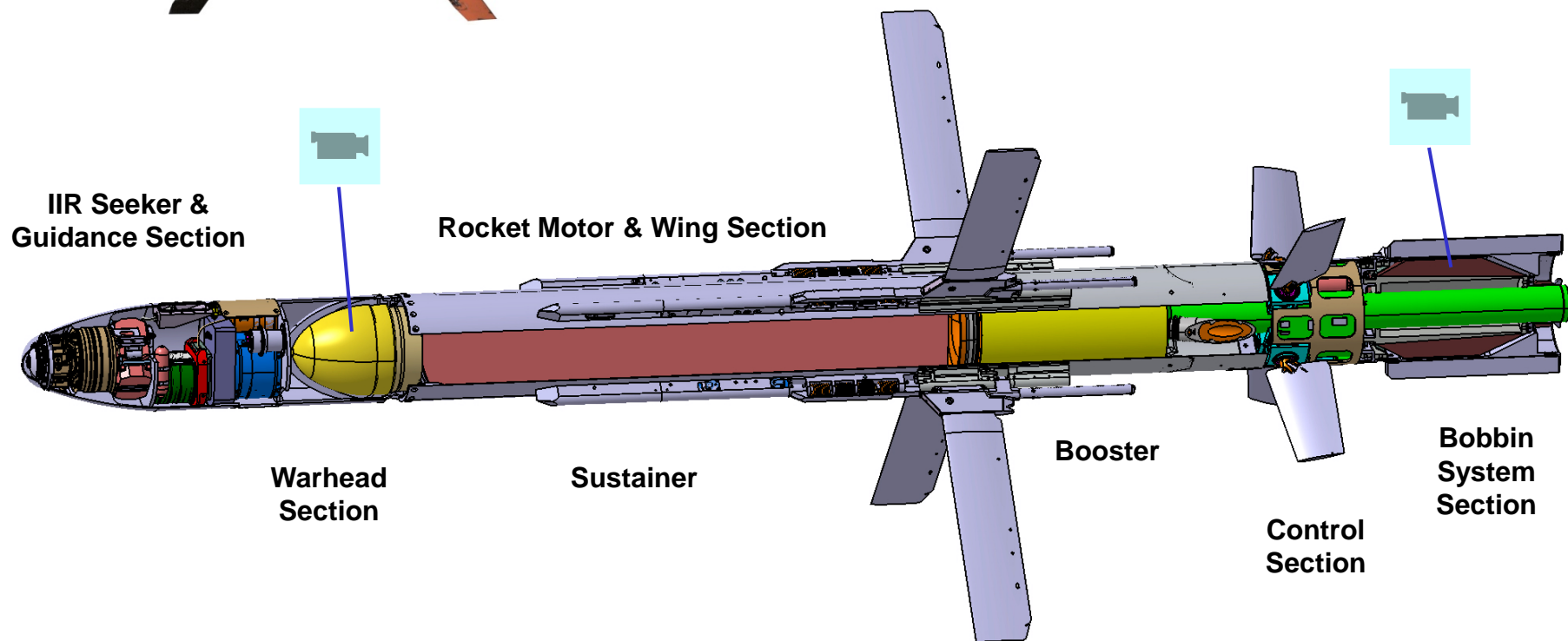


# The IDAS Missile



## Technical Data:

- Launching Mass: 138 kg
- Length: 2800 mm
- Diameter / Caliber: 180 / 240 mm
- Mass of Explosives: Ca xx kg
- Range: approx. 20 km
- Cruising Speed: 240 m/s



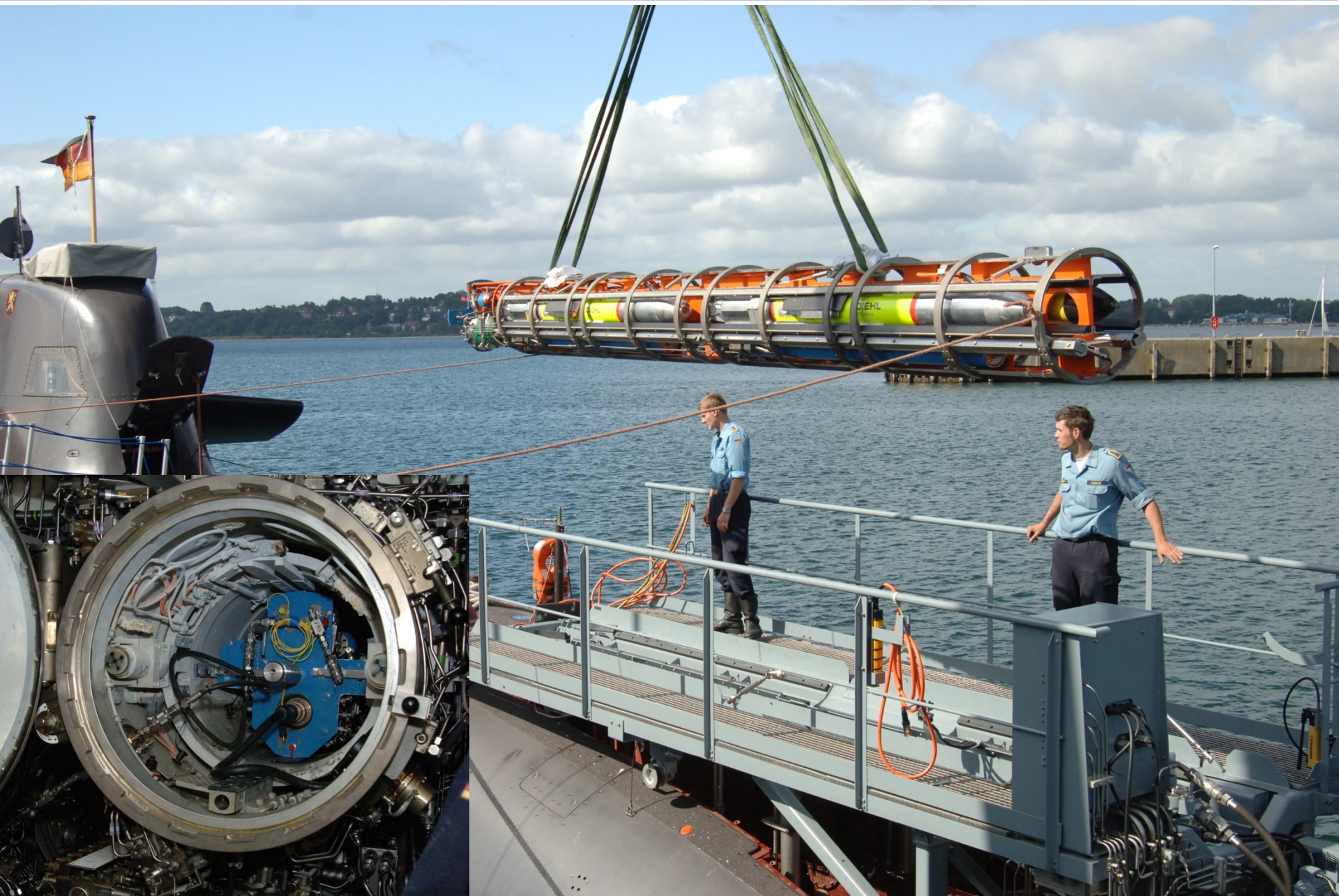




- Four (4) Missiles per Launching Container
- Compatible to all Standard Torpedo Tubes
- Torpedo Tubes still can be used for other Weapons



# Taking-over of a Launching Container (Class 212A)





# Flight Tests October/ November 2006



	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Initial Development Program										
Demo-Firings										
Gov't MoU Negotiations										
MoU										
FSD / Qualification										
Production										

- Initial Development Program financed (mainly) by industry
- Goal: Reach a significant milestone (firing from submarine against a real target, proving the entire functional chain)
- Time used to establish international cooperation (MoU)
- Qualification to be funded by Governments

- Cooperation Programs between Norway and Germany have a long and successful tradition.
- The Norwegian companies NAMMO and KONGSBERG are significantly involved in the IDAS Program
- The Norwegian Government and Industry are invited to take part in the IDAS Program on basis of the principle “work share = cost share”
- An IDAS firing test from an ULA Class submarine could be carried out within the framework of the Initial Development Phase





On request of the Royal Norwegian Navy, specialists of the companies HDW and DBD as well as Nammo Raufoss carried out a survey aboard HNoMS **Utvær** on 10 May 2012.



It was the aim of this survey to investigate the effort to be necessary for preparing the submarine for an IDAS firing test. Thereby we looked for solutions, to keep this effort as low as possible.

**Conclusion:** ULA class can easily be prepared for an IDAS firing test  
(Durable modifications not necessary)



**Questions are welcome!**