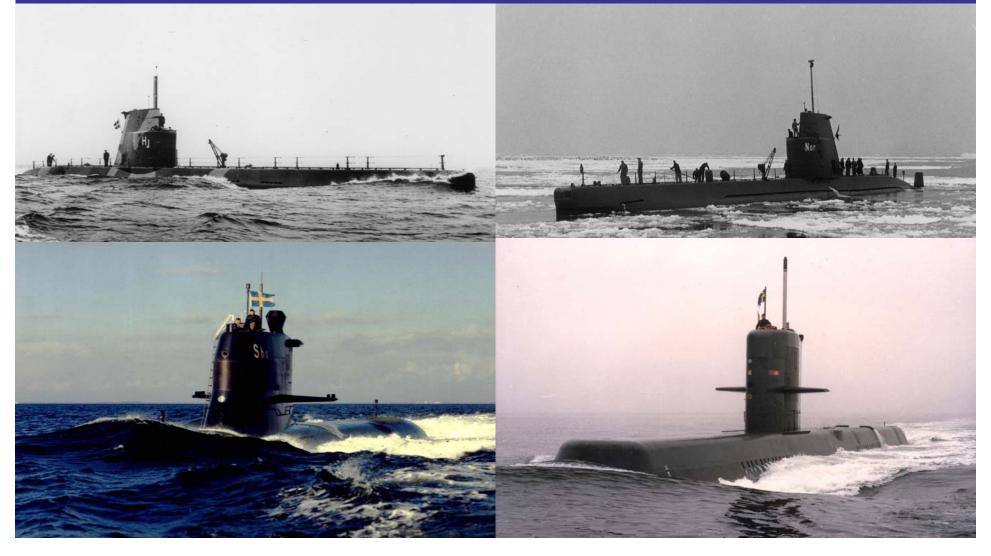
Swedish Submarine Design The Gotland Class, A19S



CDR Mats Nordin Chief Engineer Submarines and Underwater Systems FMV

The First, Second and Third Generation Swedish Post War Submarines: G1: The Hajen (A10) and Draken Class (A12) G2: The Sjöormen (A11) and G3: Näcken Class (A14)



The Fourth Generation Swedish Post War Submarines: The Västergötland Class (A17)



The Fourth Generation Swedish Post War Submarines: The Gotland Class (A19S)



Timeframe



The Time frame for Submarine Project A19S Gotland •Definition Phase

- 1980-1985 Study and concept phase
- 1985-1989 Preliminary design phase
- Realisation Phase
 - 1986-1996 Detail design phase
 - 1989-1995 Building phase
 - 1995-1999 Trial and test phase

Project Team FMV



Project manager Project assistant Project controller

DPL Hull and hull eq DPL Machinery and Electrical eq DPL Weapons DPL ILS

10-40 specialists at FMV

Project Team Kockums

Project manager Project assistant Project controller

DPL Hull and hull eq DPL Machinery and Electrical eq DPL Weapons DPL ILS

25-160 specialists at Kockums

Production crew on the Yard 300-450 workers

Project Tracking



- Stepwise acquisition
 - •Need and requirement Phase
 - •Study- and Concept Phase
 - •Preliminary Design Phase
 - •Detail Design Phase
 - Building Phase
 - •Test Phase
- •WBS for the different Phases •Time
 - Content

•Monthly updates; Time, expenditures & results





On Time – On Cost – To Requirement