Trawler with Azimuth
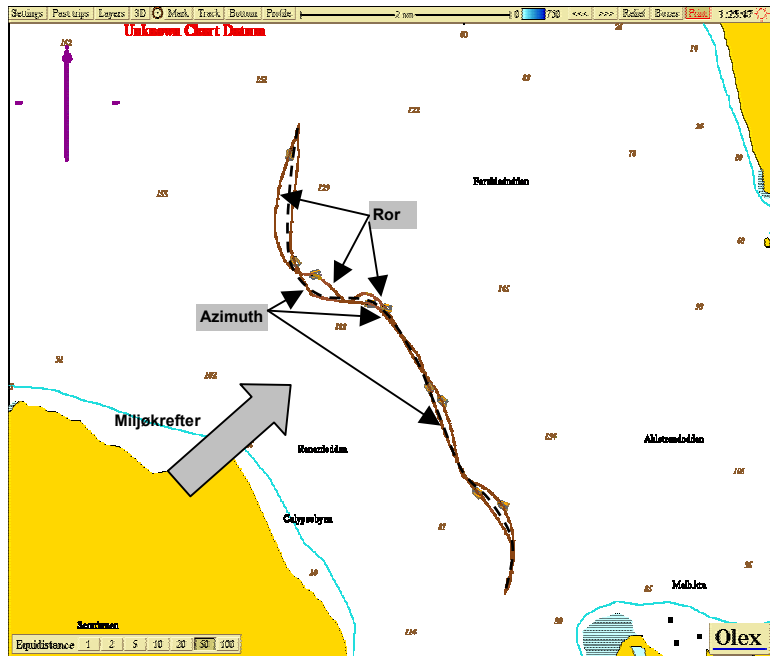

Background

o **Manoeuvrability of a trawler with and without a bow azimuth thruster has been investigated using a simulator.**

o **Interaction between ship and trawl has been included.**

o **Model tests in Towing Tank to develop and verify propulsion models.**

The trawl model was developed by SINTEF Fisheries and Aquaculture and interfaced to MARINTEKs ship model. The Olex and LabView software packages (COTS products) were used as electronic chart and human machine interface.

Simulator Architecture
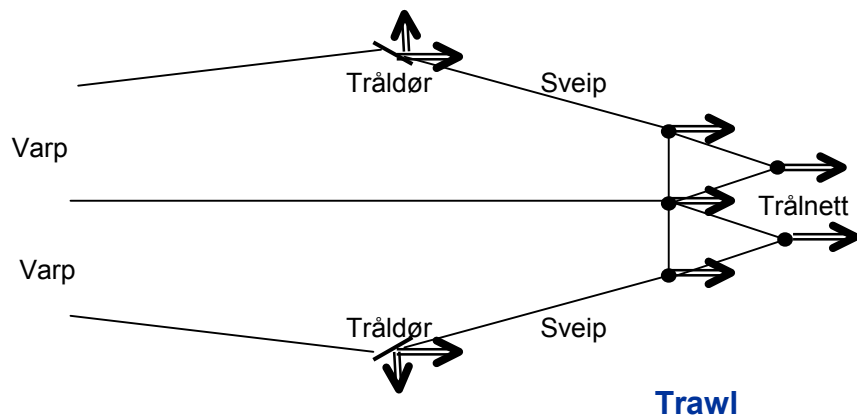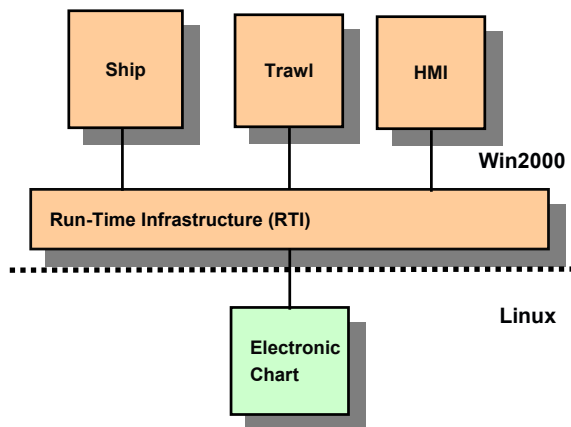
Technology

The simulator consists of the following modules:

- **Ship model including propulsion models**
- **Trawl model**
- **Olex (electronic chart)**
- **HMI (Human Machine Interface)**

Benefits

- **Manoeuvrability and performance study.**
- **Visualisation of ship and trawl motion in actual area.**
- **Training and familiarisation of new technical solutions.**
- **Simulation of total system:**
  - **Motions**
  - **Power consumption**
  - **RPM-, rudder- and pitch-control strategies**