

VTS



Equipment



Qualified operators





VTS

Mandatory training...

- □ 500 operators
- Shipping act
- Basic certificate
- □ Regional certificate
- □ Refresher

...Instructions





VTS

Training requirements...





□ IALA recommendation V-103

□ Simulation wherever practicable



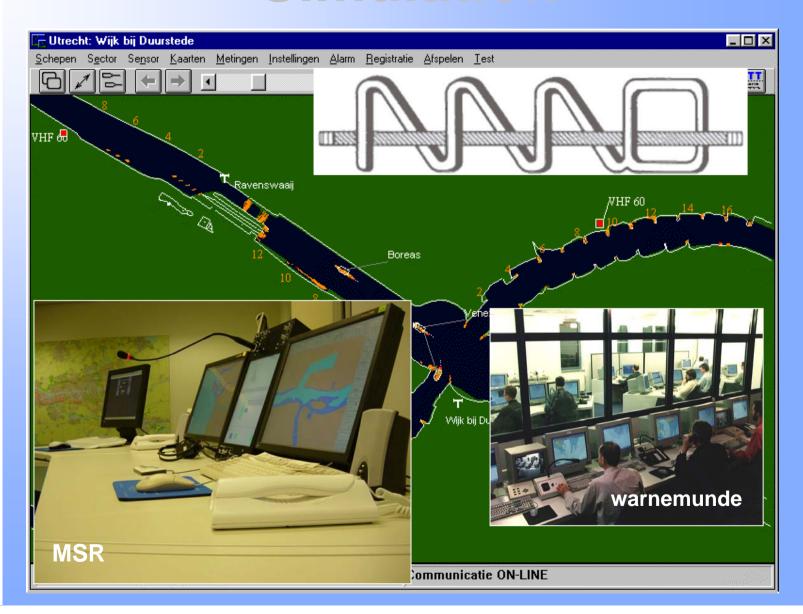


Why simulation?...

- Quality
- □ Practical skills
- Operational experience
- Application of knowledge
- Showing competence
- Emergency situations

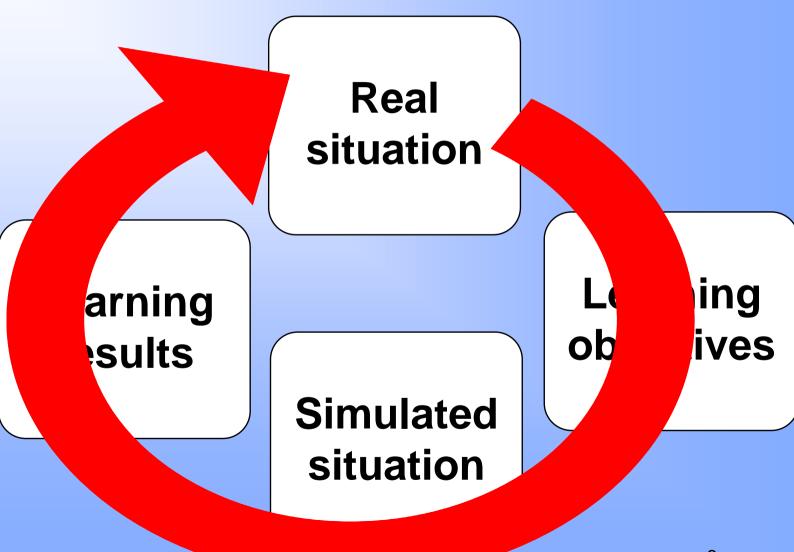
















Learning experience





Reality



Scenario...

- Analysis
- Critical incidents
- □ Scenario
- Conditions



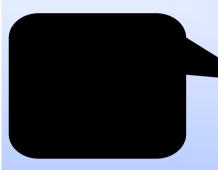


Concentric training steps

Laws & regulations

Area

Geography
Topography
Tide
Meteo
Exercise time



Scenario

Traffic model

Vessels Patterns Interaction

Comm. procedures

Incidents & calamities

VTS procedures





Simulation also used...

- Assessment
- Proficiency testing
- □ Research







Existing applications of simulators





