

The background is a gradient of dark blue and purple. It features several concentric circles and arcs. Some of these arcs have degree markings, such as 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, and 260. There are also smaller circles and arcs, some with arrows indicating a direction of movement or rotation. The overall design is technical and futuristic.

TRANSFORMING TRAINING



REASON FOR
TRAINING

EVOLUTION OF SIMULATION TRAINING

Single
Simulator
(Individual)

Technical skills

- Familiarization
- Product training
- Certification

Coordinated
team training
(Bridge Team)

Collaboration

- Communication
- Role play

Integrated
team training
(Pilot/Tugs)

Human factors

- Communication
- Decision making
- Teamwork
- Leadership
- Situational awareness

Digital future
use of simulation
(Multi-dimensional)

Trends of

- Anytime & Anywhere
- Augmented reality
- Simulator networks
- Automated assessment
- Embedded simulations
- Autonomous ships
- High fidelity models



PREVENTIVE TRAINING

Example: Feasibility Studies

- Validate & optimize engineering projects
- Identify risks, and best practices
- Evaluate environmental limits
- Assess tug requirements
- Recommend improvements (dredging, ATONs, for all vessels)
- Evaluate future training needs

Policies

QUIZ

CHECKLIST

BEST PRACTICES IN
TRAINING

3D MODELLING TODAY

Ship design &
construction

Operations

Maintenance

Safety &
environmental

Decision Support

Machine Learning

Advanced Analytics

Simulation & Training

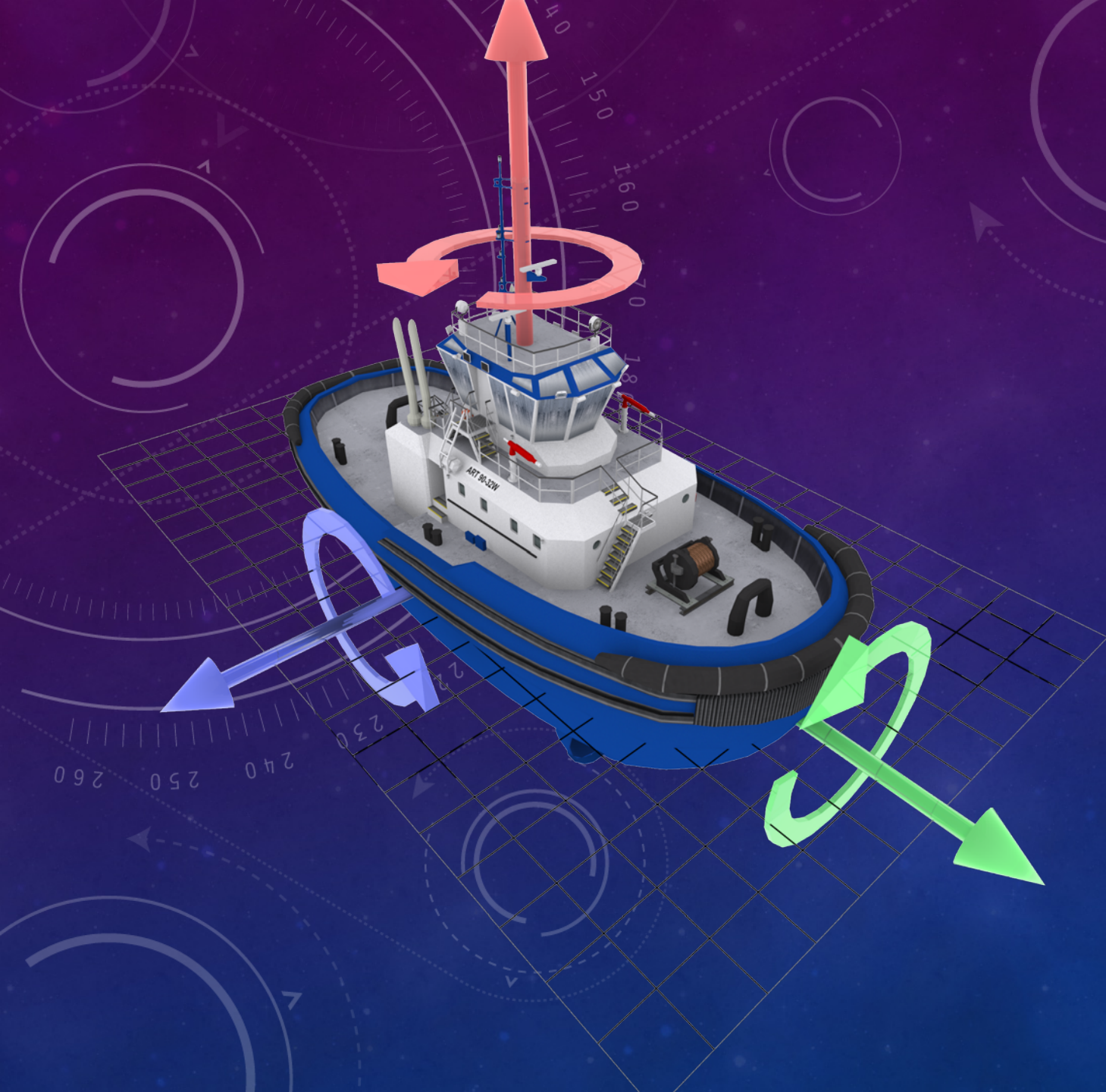
Digital Documentation



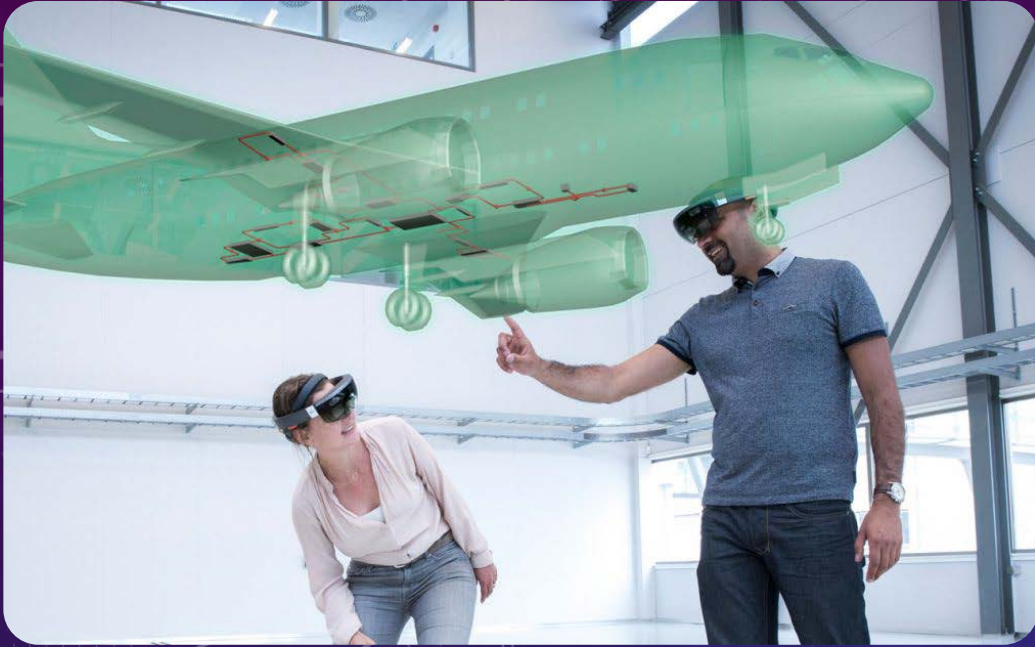
CUSTOMIZED 3D VESSELS & DATABASES

What if you could train on *your* vessel?

What if you could train in the area
which you will be assigned to?



THE FUTURE OF TRAINING



Virtual Reality (VR) / Augmented Reality (AR)

Artificial Intelligence (AI) / Decision support tools

Remote vessel operations / Reduced manning

Sharing resources / models, databases, exercises





MAIN POINTS

Competent mariners will still be needed

Vessel crews will need strong IT skills

Train anywhere and at anytime

The background is a gradient of dark blue and purple, overlaid with a complex geometric pattern. It features several concentric circles and arcs of varying radii. Some of these arcs are marked with degree values: 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, and 260. There are also smaller circular elements, some with arrows indicating a clockwise direction. The overall aesthetic is technical and futuristic.

QUESTIONS?