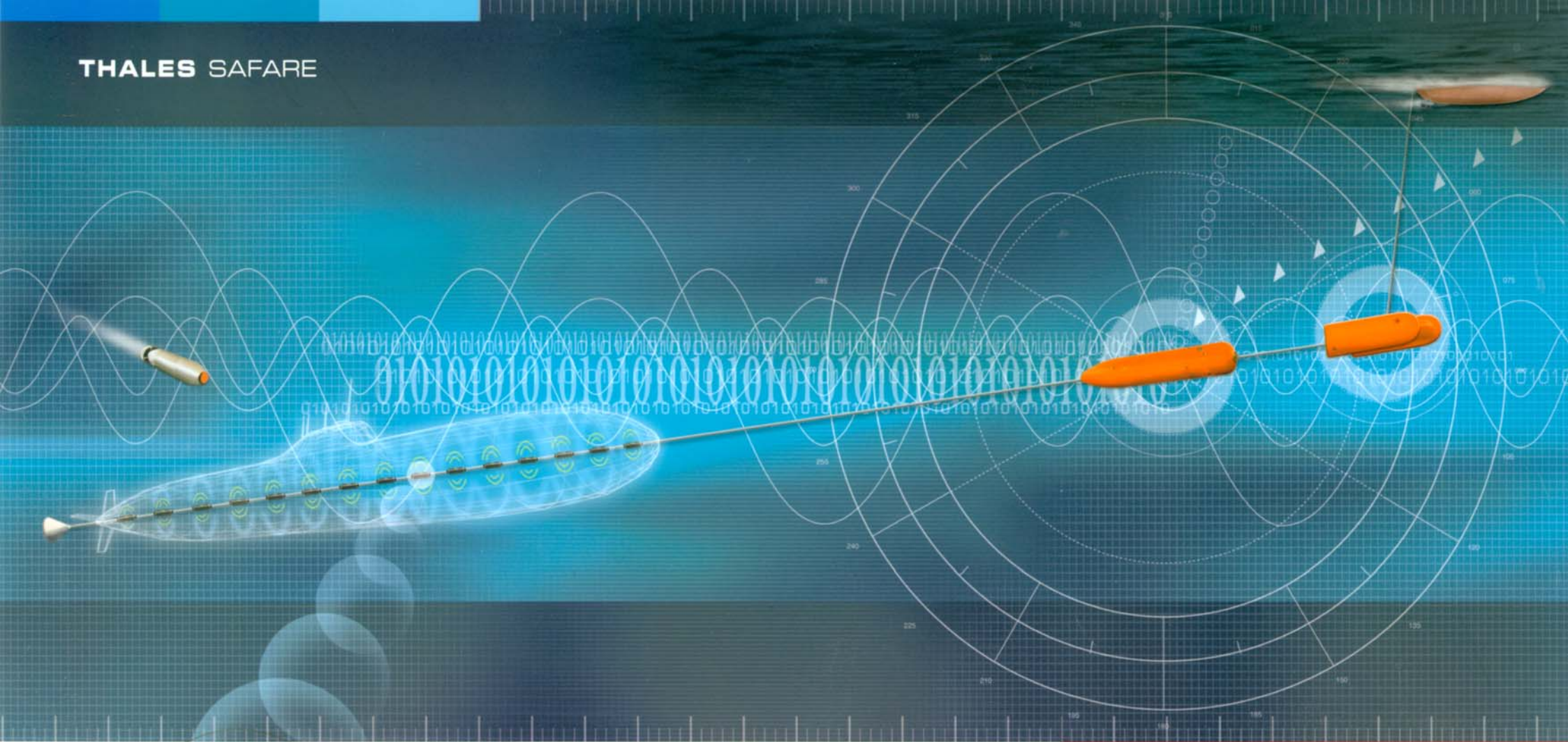


THALES SAFARE



STAR SYSTEM

ACOUSTIC TARGET FOR TORPEDOES



THALES

Simulation



TESTING AND TRAINING

Acoustic target, STAR simulates echoes on reflective surfaces of the hull and superstructures of submarines. It enables tests and calibration for the validation of torpedoes to be carried out. The analysis of their trajectory ensures the functioning of the auto-guiding system for the tested torpedoes. Designed as an alternative to using a real submarine, the system can be both extended and upgraded. It optimises the implementation of low cost torpedo tests and ensures safe crew training.

SYSTEM

Work station	System command Real time display of the results Tracking
Manoeuvre winch	Electro-hydraulics Associated hydraulic housing
Cables	Self carrier coaxial cable: 400 metres Tether cable: 300 metres
Depressor	Hydrodynamic wing
Fish	Batteries Navigation sensors Provision for GPS synchronous pinger
Array	Length: 100 metres 15 acoustic repeater modules Hydraulic brake

CHARACTERISTICS

Towing speed	≤ 15 knots
Depth range	From 20 to 120 metres
Acoustic length	70 metres
Measurement	Real time Active torpedo's position in the final attack phase
Reflection index	Adjusted by the operator for each module
Adjustable acoustic modes	Immediate repeater Delay repeater Synthetic repeater Continuous noise
Doppler	Artificial Adjustable
Frequency band	Classified information
Autonomy	> 8 hours

ACOUSTIC TARGET FOR TORPEDOES

A **THALES** -  co-operation