AUTONOMOUS MARITIME SYSTEMS

Intelligent platforms for safer, wider maritime coverage.

Government, coast guard, port, environmental and critical infrastructure applications

Where Maritime Expertise Becomes Intelligence.

GOVERNMENT MISSION PORTFOLIO

One autonomous fleet can cover the missions governments run every day

DAES platforms reduce personnel exposure while extending presence, response speed and operational reach.

01 **COASTAL SURVEILLANCE**

Persistent patrol and maritime domain awareness

02 **PORT SECURITY**

Harbor perimeter, channel and anchorage monitoring

03 **BORDER ENFORCEMENT**

Remote observation and rapid-response support

04 **FISHERIES PROTECTION**

Illegal activity detection and evidence collection

05 **SEARCH & RESCUE**

Thermal search, communications and supply delivery

06 **ENVIRONMENT**

Water quality, pollution and habitat monitoring

07 **HYDROGRAPHY**

Survey and mapping payload integration

08 **INFRASTRUCTURE**

Offshore asset, cable and pipeline inspection support

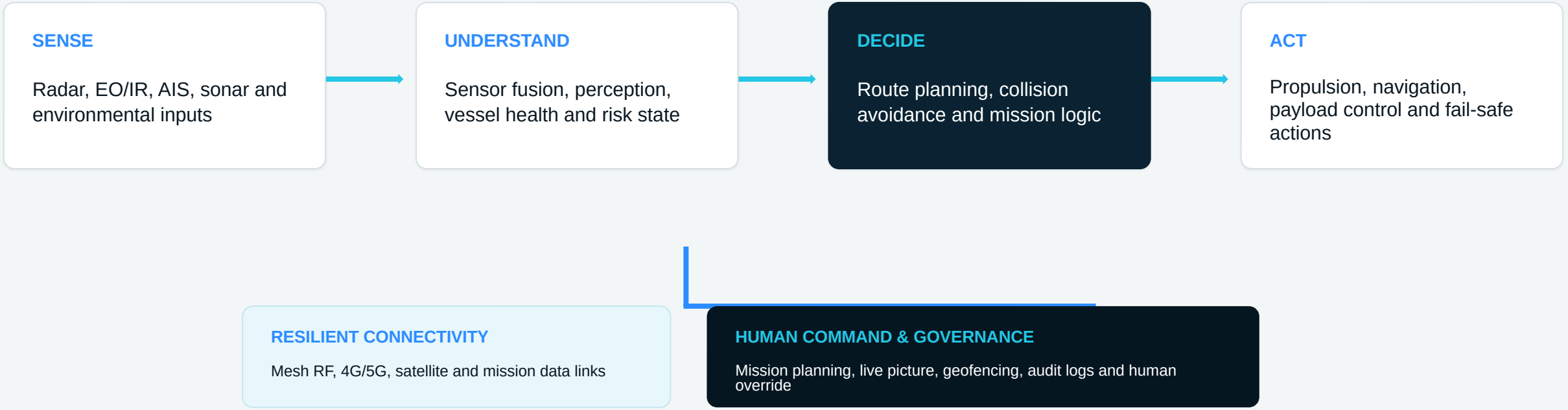
09 **DISASTER LOGISTICS**

Inter-island and access-limited emergency resupply

COMMON AUTONOMY ARCHITECTURE

A shared autonomy core reduces training, integration and fleet complexity

The same functional stack scales from a compact electric patrol craft to a 24 m autonomous logistics vessel.



PLATFORM FAMILY

Three families scale from harbor patrol to inter-island logistics

Each platform is configured around a mission envelope, not a fixed one-size-fits-all vessel.

SENTRY	**4-9 m**	PATROL & RESPONSE Quiet monitoring, persistent coastal presence and high-speed response.	**4E / 6H / 9X**
ATLAS	**14.5-24 m**	AUTONOMOUS LOGISTICS Priority resupply, disaster logistics and heavy inter-island transport.	**14 / 24**
PELAGIC	**20 m**	LONG-ENDURANCE Low-profile persistent sensing, survey and offshore infrastructure missions.	**20**

DAES SENTRY SERIES

SENTRY 4E

Compact electric monitoring platform

A quiet, low-logistics platform for confined waters where persistent visibility matters more than payload mass.

LENGTH X BEAM

4.0 x 1.7 m

TARGET SPEED

Up to 31 kn

FULL-LOAD MASS

Approx. 300 kg

TARGET RANGE

Up to 36 nm

PROPULSION

Pure electric

OPERATING SEA STATE

Up to 3

PRIMARY MISSIONS

Harbor patrol / water quality / channel monitoring / research support

CONCEPT VISUALIZATION

TARGET PERFORMANCE - SUBJECT TO FINAL ENGINEERING VALIDATION

DAES SENTRY SERIES

SENTRY 6H

Long-endurance coastal security platform

A configurable coastal USV combining speed, useful payload and extended endurance for multi-agency operations.

LENGTH X BEAM

6.0 x 2.2 m

TARGET SPEED

Up to 55 kn*

PAYLOAD

Up to 250 kg

TARGET RANGE

Up to 740 nm*

PROPULSION

Gas / diesel / hybrid

OPERATING SEA STATE

Up to 5

PRIMARY MISSIONS

Coastal surveillance / fisheries protection / port security / SAR support

CONCEPT VISUALIZATION

TARGET PERFORMANCE - SUBJECT TO FINAL ENGINEERING VALIDATION

DAES SENTRY SERIES

SENTRY 9X

High-speed autonomous response platform

A fast twin-waterjet platform for rapid interception, escort and time-critical response across exposed coastal waters.

LENGTH X BEAM

9.0 x 2.3 m

TARGET SPEED

55+ kn*

PAYLOAD

Up to 850 kg

TARGET RANGE

Up to 250 nm

PROPULSION

Twin waterjet

OPERATING SEA STATE

Up to 6

PRIMARY MISSIONS

Rapid response / escort / border enforcement support / remote sensing

CONCEPT VISUALIZATION

TARGET PERFORMANCE - SUBJECT TO FINAL ENGINEERING VALIDATION

DAES ATLAS SERIES

ATLAS 14

Rapid autonomous logistics platform

A fast resupply platform for moving priority equipment, emergency stores and modular mission payloads without crew exposure.

LENGTH X BEAM

14.5 x 3.3 m

TARGET SPEED

Up to 45 kn*

USEFUL PAYLOAD

Up to 3 t

TARGET RANGE

500-1,100 nm*

PROPULSION

Diesel / hybrid

OPERATING SEA STATE

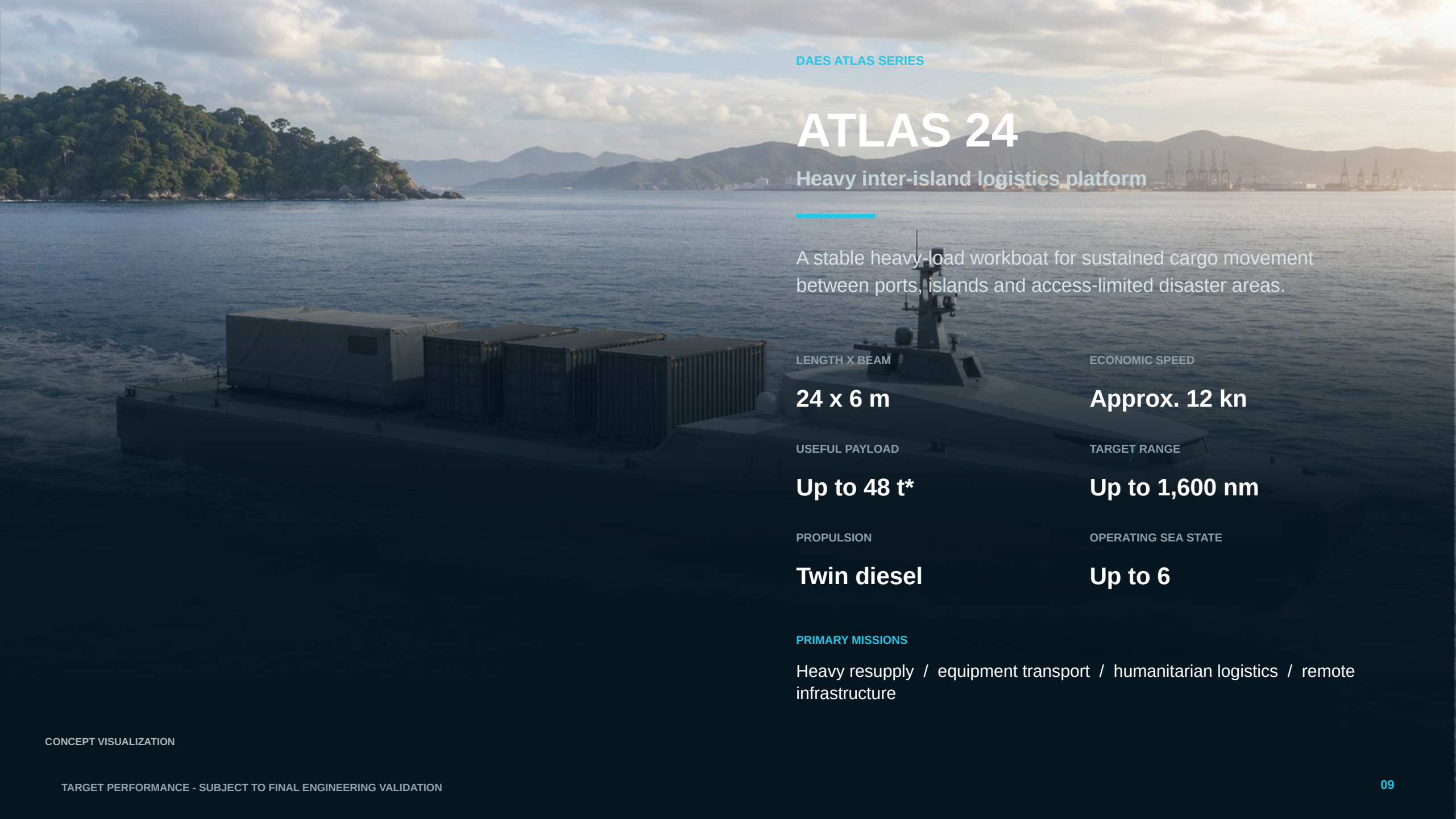
Up to 6

PRIMARY MISSIONS

Disaster response / remote island resupply / offshore support / priority cargo

CONCEPT VISUALIZATION

TARGET PERFORMANCE - SUBJECT TO FINAL ENGINEERING VALIDATION



DAES ATLAS SERIES

ATLAS 24

Heavy inter-island logistics platform

A stable heavy-load workboat for sustained cargo movement between ports, islands and access-limited disaster areas.

LENGTH X BEAM

24 x 6 m

ECONOMIC SPEED

Approx. 12 kn

USEFUL PAYLOAD

Up to 48 t*

TARGET RANGE

Up to 1,600 nm

PROPULSION

Twin diesel

OPERATING SEA STATE

Up to 6

PRIMARY MISSIONS

Heavy resupply / equipment transport / humanitarian logistics / remote infrastructure

CONCEPT VISUALIZATION

TARGET PERFORMANCE - SUBJECT TO FINAL ENGINEERING VALIDATION

DAES PELAGIC SERIES

PELAGIC 20

Low-profile long-endurance platform

A semi-submersible hull form optimized for long-range sensing and persistent operation with reduced visual and radar profile.

LENGTH X BEAM

20 x 2.4 m

ECONOMIC SPEED

Approx. 8 kn

USEFUL PAYLOAD

Up to 5 t*

TARGET RANGE

Up to 2,300 nm

PROPULSION

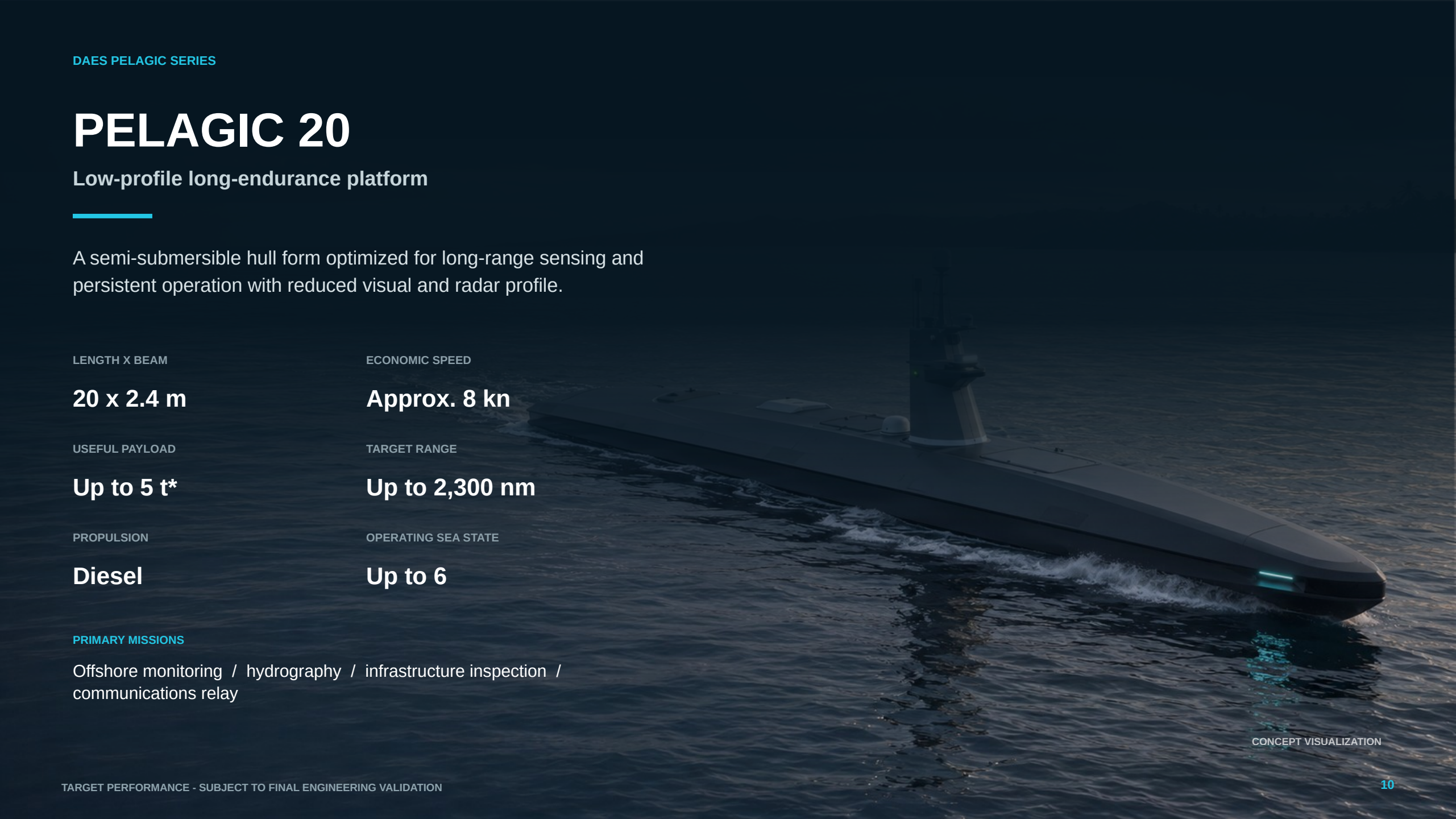
Diesel

OPERATING SEA STATE

Up to 6

PRIMARY MISSIONS

Offshore monitoring / hydrography / infrastructure inspection / communications relay



CONCEPT VISUALIZATION

TARGET PERFORMANCE - SUBJECT TO FINAL ENGINEERING VALIDATION

COMMAND AND CONTROL

One command layer scales from a single vessel to coordinated fleet operations

Human authorities remain in command while autonomy manages navigation, sensing, payload actions and routine exceptions.

01

SINGLE VESSEL

Mission planning, live video, route control and health status

02

FLEET OPERATIONS

Multi-vessel tasking, formation, shared tracks and coordinated coverage

03

MULTI-AGENCY PICTURE

Common operating picture, evidence, alerts and authorized data sharing

Human override | **Geofencing** | **Role-based access** | **Audit logs** | **Fail-safe modes**

Communications options include Mesh RF, 4G/5G, satellite and mission-specific data links.

FLEET COMPARISON

Target performance supports distinct mission envelopes

PARAMETER	SENTRY 4E	SENTRY 6H	SENTRY 9X	ATLAS 14	ATLAS 24	PELAGIC 20
Length	4.0 m	6.0 m	9.0 m	14.5 m	24 m	20 m
Beam	1.7 m	2.2 m	2.3 m	3.3 m	6 m	2.4 m
Useful payload	TBC	250 kg	850 kg	3 t	48 t*	5 t*
Target speed	31 kn	Up to 55 kn*	55+ kn*	45 kn*	12 kn econ.	8 kn econ.
Target range	36 nm	Up to 740 nm*	250 nm	500-1,100 nm*	1,600 nm	2,300 nm
Propulsion	Electric	Gas / diesel / hybrid	Twin waterjet	Diesel / hybrid	Twin diesel	Diesel
Sea state	Up to 3	Up to 5	Up to 6	Up to 6	Up to 6	Up to 6

* Figures are preliminary targets normalized from supplier source material. Source data contained inconsistencies. Final performance requires supplier confirmation, detailed design, load case, propulsion selection, regulatory review and sea trials.

MISSION MODULARITY

Mission modules let one fleet serve multiple agencies

Payload interfaces, power, data and mechanical integration are defined during mission engineering.

01 **MARITIME OBSERVATION**

Radar, EO/IR, AIS, weather and evidence capture

02 **SURVEY & ENVIRONMENT**

Sonar, bathymetry, water quality and pollution sensing

03 **SEARCH & RESCUE SUPPORT**

Thermal search, loudhailer, communications and emergency stores

04 **MODULAR LOGISTICS**

Sealed cargo pods, protected equipment and priority supplies

05 **COMMUNICATIONS RELAY**

Mesh, cellular and satellite relay for remote operating areas

06 **INFRASTRUCTURE INSPECTION**

Offshore platform, cable, pipeline and coastal asset payloads

Optional modules are subject to platform capacity, classification, end-use controls and final engineering approval.

PROGRAM DEPLOYMENT

A phased program turns requirements into an operational local capability

The pilot is designed to validate the mission, platform configuration, command workflow and local support model together.

01 MISSION DEFINITION

Operating area, threats, payloads, regulation and success criteria

02 ENGINEERING BASELINE

Final hull, propulsion, autonomy, communications and target performance

03 BUILD & ACCEPTANCE

Manufacture, integration, factory testing and documentation

04 LOCAL SEA TRIAL

Representative missions, fail-safe testing and agency acceptance

05 TRAIN & HAND OVER

Operator, maintainer, mission planner and command-center training

06 FLEET EXPANSION

Localized support, additional payloads and multi-vessel operations

LOCALIZATION AND LIFECYCLE

Localization is designed into the commercial model

DAES structures each country program around sovereign requirements, local capability and sustainable lifecycle support.

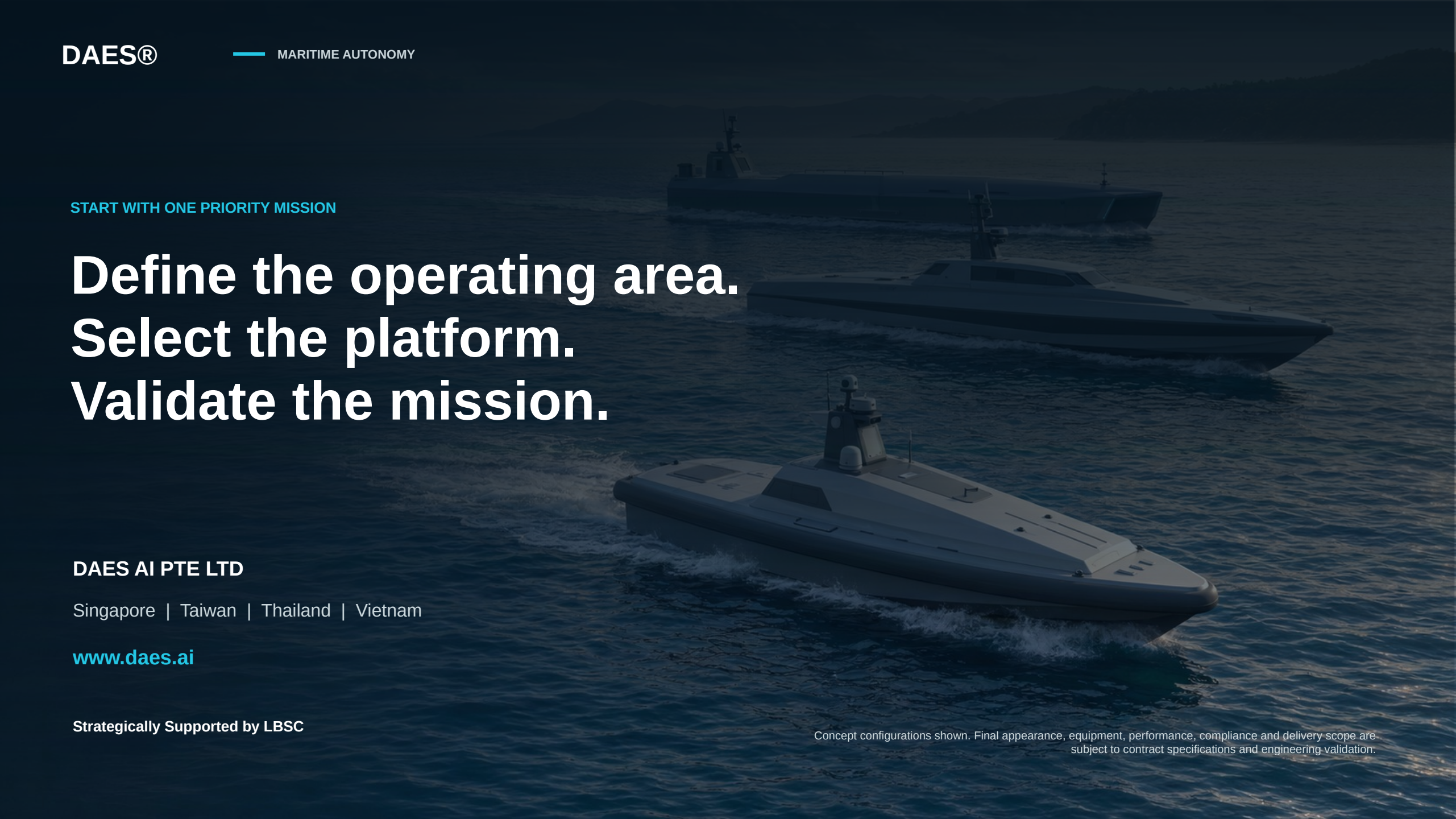
A government platform is only useful when the country can operate, maintain and evolve it.

Country-specific contracting, data governance, training, maintenance and industrial participation are defined before fleet expansion.

01	**LOCAL INTEGRATION**	Country-specific sensors, communications, payloads and command interfaces
02	**TRAINING & CERTIFICATION**	Operators, maintainers, mission planners and technical administrators
03	**SERVICE & SPARES**	Maintenance plans, critical spares, remote support and upgrade paths
04	**DATA SOVEREIGNTY**	Deployment architecture aligned with national security and agency policy
05	**INDUSTRIAL PARTICIPATION**	Local assembly or manufacturing options subject to program scale

DAES®

MARITIME AUTONOMY



START WITH ONE PRIORITY MISSION

Define the operating area.
Select the platform.
Validate the mission.

DAES AI PTE LTD

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Strategically Supported by LBSC

Concept configurations shown. Final appearance, equipment, performance, compliance and delivery scope are subject to contract specifications and engineering validation.