



SAAB

Greater Power to Smaller Platforms

The small footprint solutions



Naval Warfare

The ability to project power at sea and from the sea
to influence the behavior of people or the course of events

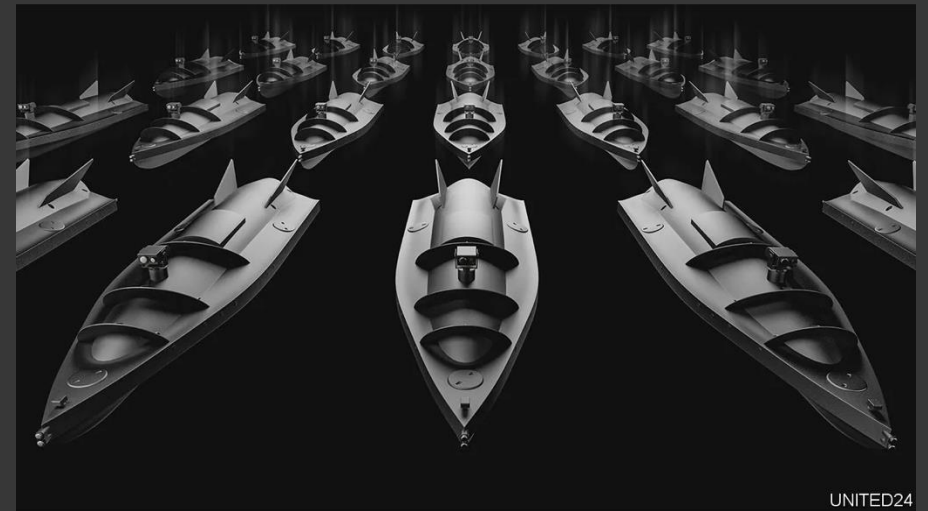
“Whosoever can hold the sea has command of everything”

– Themistocles (524-460 B.C)



A new reality – A new challenge

- The uncrewed threat affects the entire battlefield
- Situational awareness (SA) is challenged
- There is a need to retake the ability to obtain SA both in the air and on the surface.



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Capabilites

Simultaneously

- Air and Surface Surveillance
- Drone Tracking
- Sense & warn and weapon locating functionality
- Target classification

High accuracy 3D information for all air targets

- Target indication to weapon systems
- Excellent small-target detection
- Fast reaction time

Extensive Electronic Counter-Counter Measures (ECCM)

Small footprint - physically and weight



SG1X

- Small
- Lightweight
- Energy efficient
- High performing
- >100 km range
- Air and Surface 3D surveillance
- High level of automation
- Minimal maintenance needs

Radar type:	Stacked beam 3D radar
Antenna type:	AESA, digital beam forming
Frequency:	X (I) band
Elevation coverage:	70°
Rotation rate:	60 RPM
Search volume:	360°
Range:	>100 km
Tracking capacity:	600 Air/Surface tracks
Climate zones:	All climate zones
Sensor weight:	100 kg
Stabilisation:	Electronic
Power consumption:	2,3 kW peak



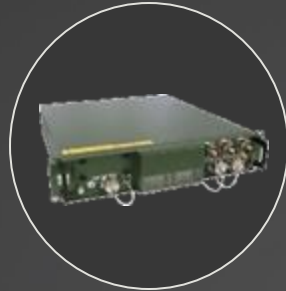
Small size

Three main units, easy to integrate

Power Conversion Unit

28VDC

300W



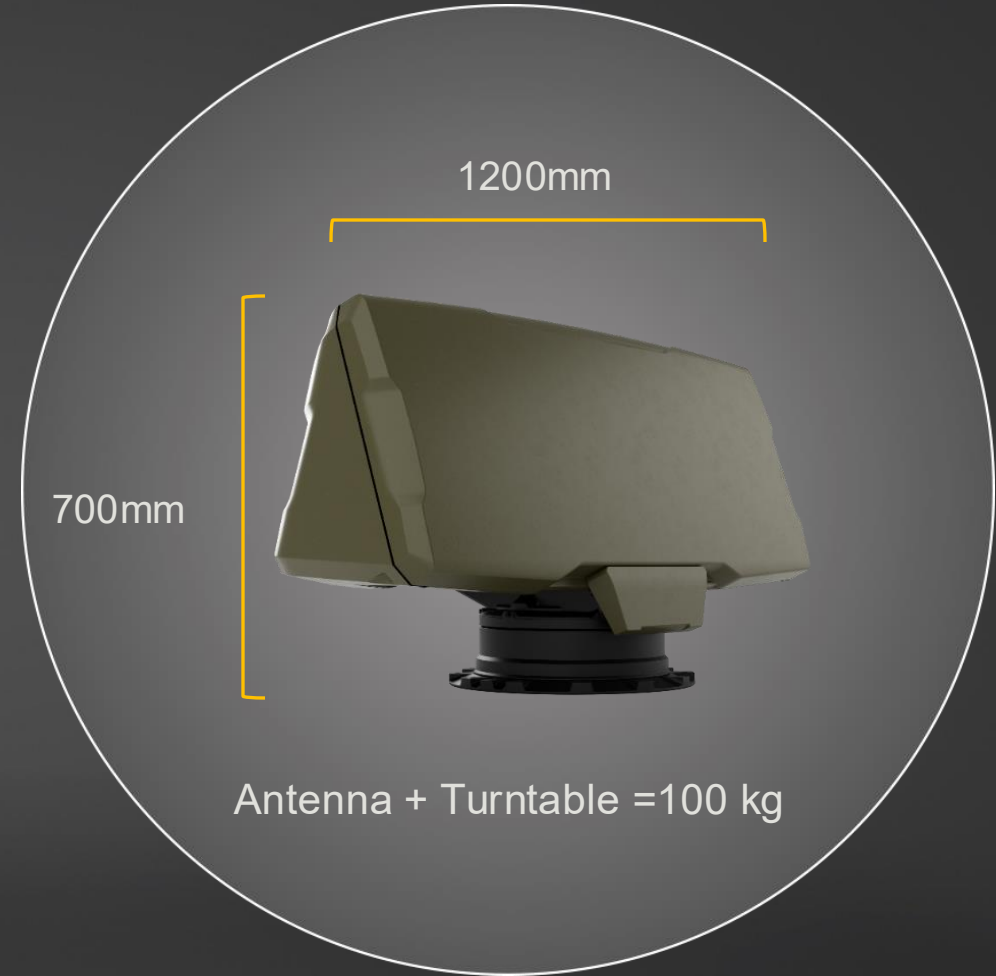
Signal and Data processing Unit

28VDC / 230VAC

2000W

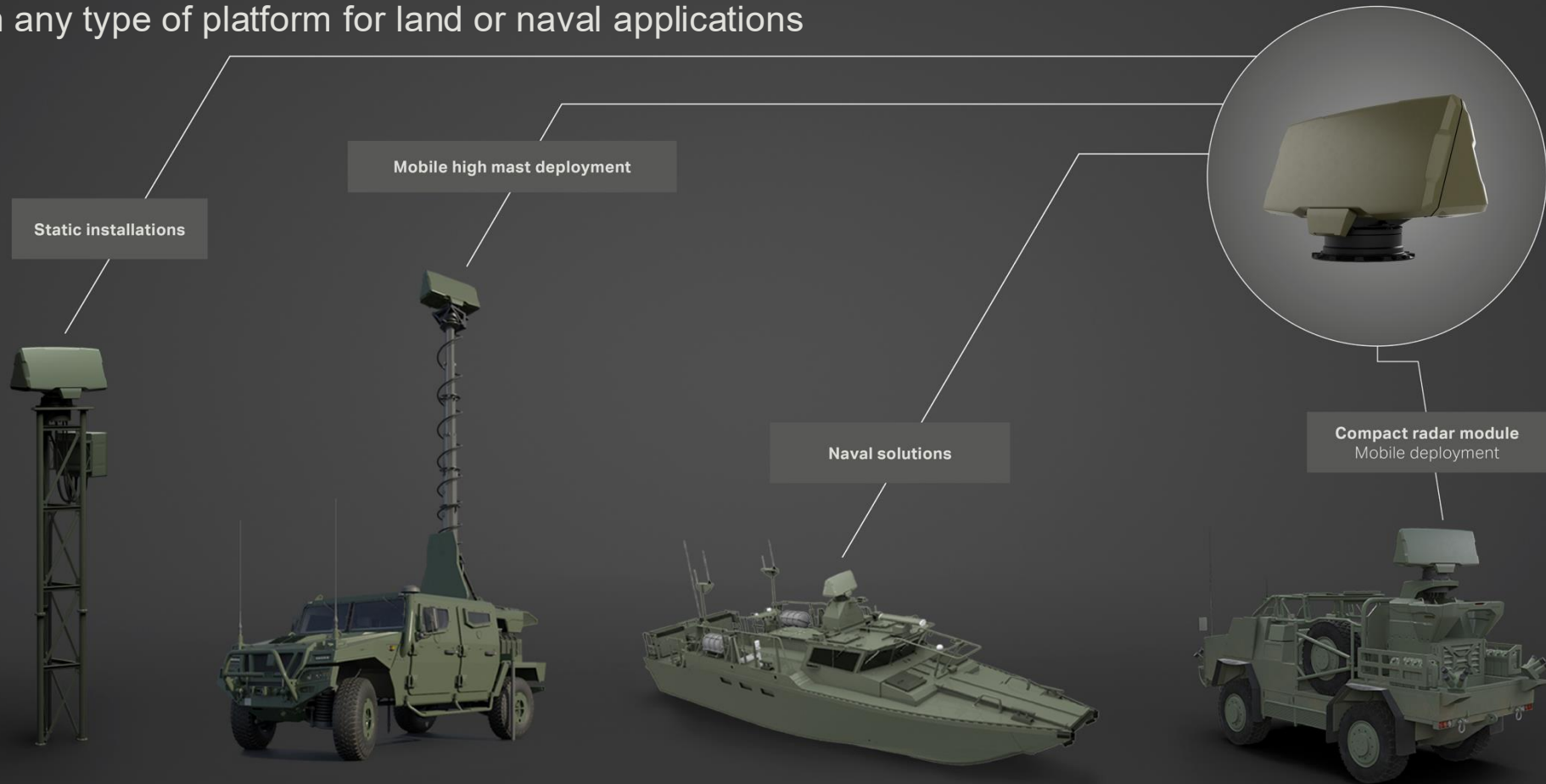


SDU + PDU 19' Rackmounted < 40 kg



Configurations

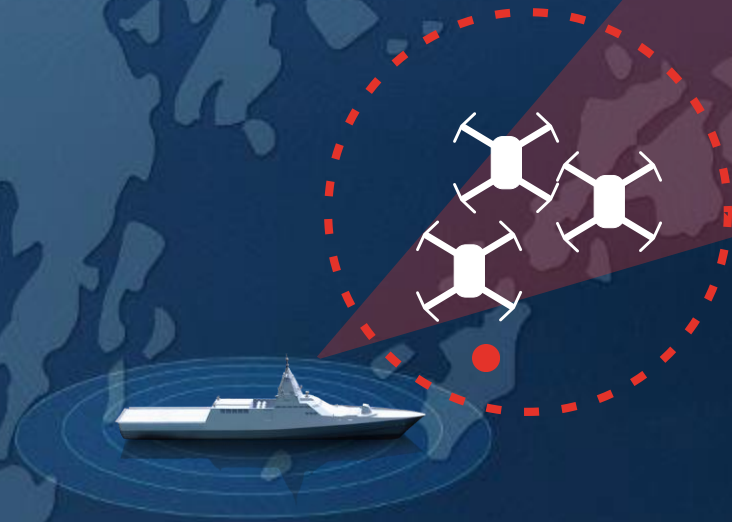
G1X can be delivered with various standard or customized solutions on any type of platform for land or naval applications



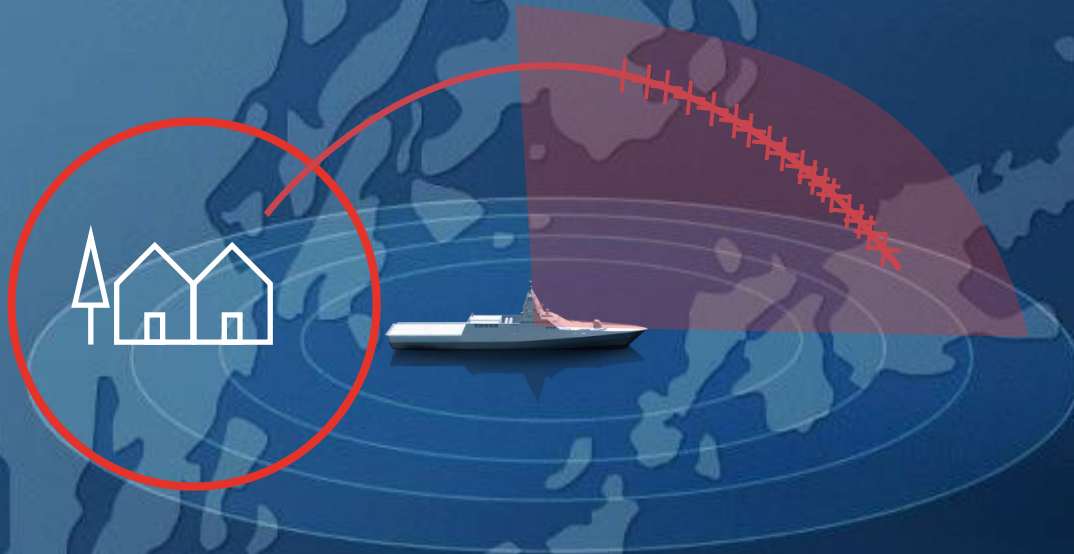
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Drone Tracker

- Challenge: Separate birds from drones
- Detects small UAVs at a significant distance
- UAV classification algorithms

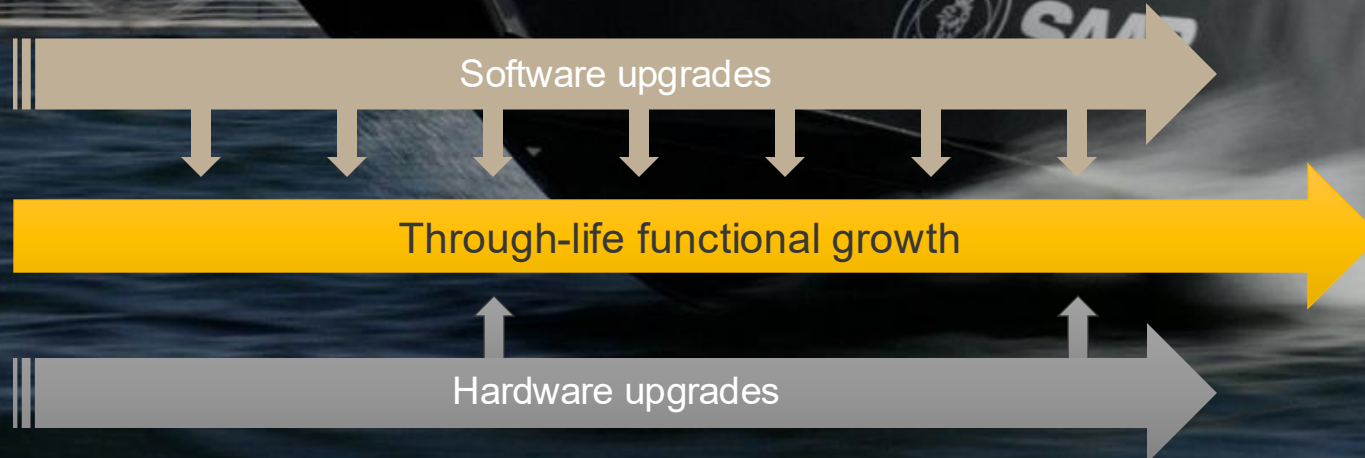


Sense & Warn and weapon location



- Detects, tracks and classifies ballistic objects
- Provides Firing position, Impact position & Time to impact
- Increases own ship survivability close to land
- Useful for site- and force protection

The power of software defined capabilities



- Continuous deployment of new functionalities
- Short lead times to operational implementation through spiral development
- Enabling multi-function, multi-domain



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