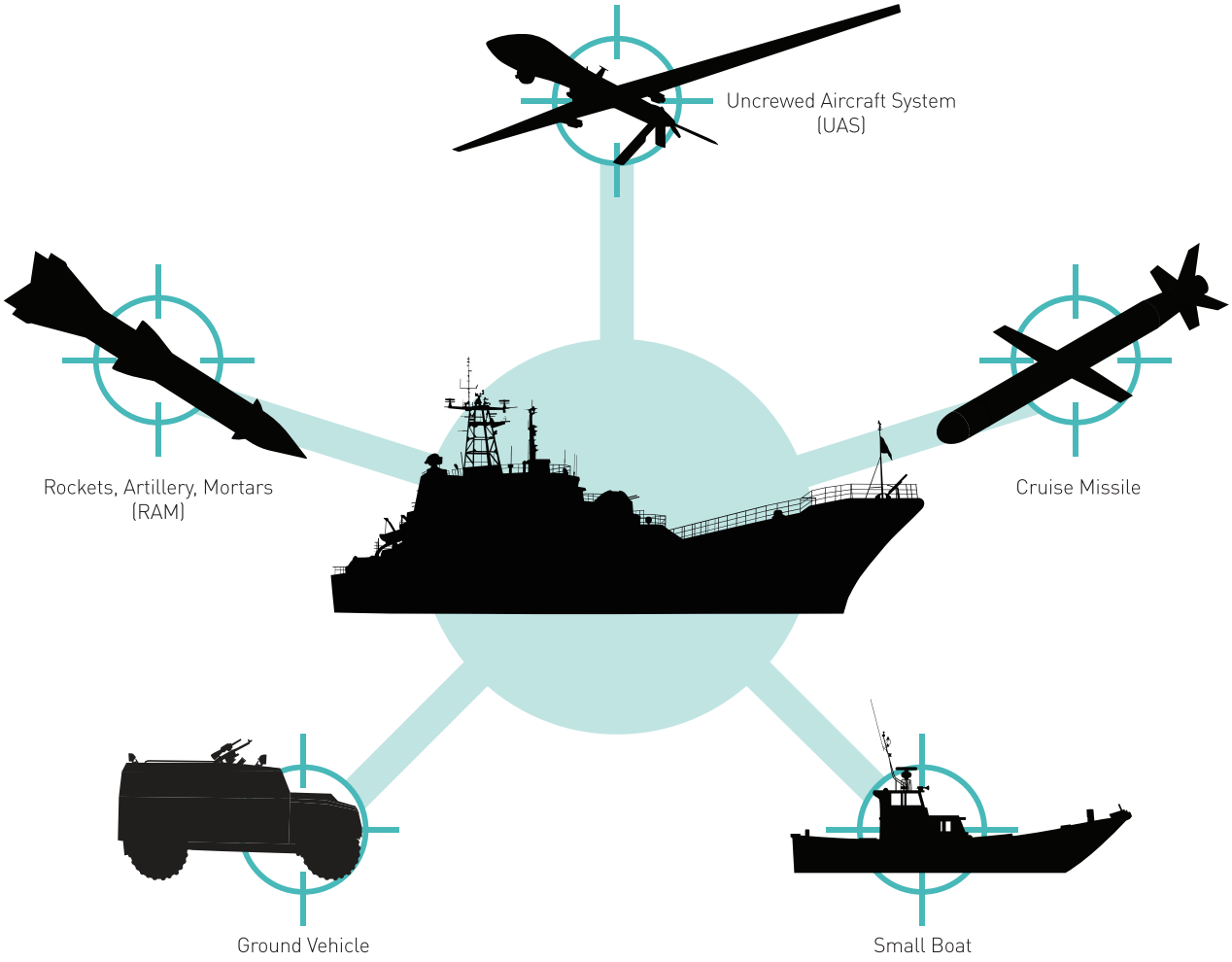
LWS LASER WEAPON SYSTEMS

READY FOR INTEGRATION ACROSS MULTIPLE DOMAINS

Mature Multi-Mission Affordable Defense at Speed of Light



Key Benefits

- Precision engagement
- Low cost per shot
- Deep magazine
- Multi-mission intelligence, surveillance, and reconnaissance (ISR) capabilities
- Graceful degradation
- Scalable effects

PIRA: MOR2023050045

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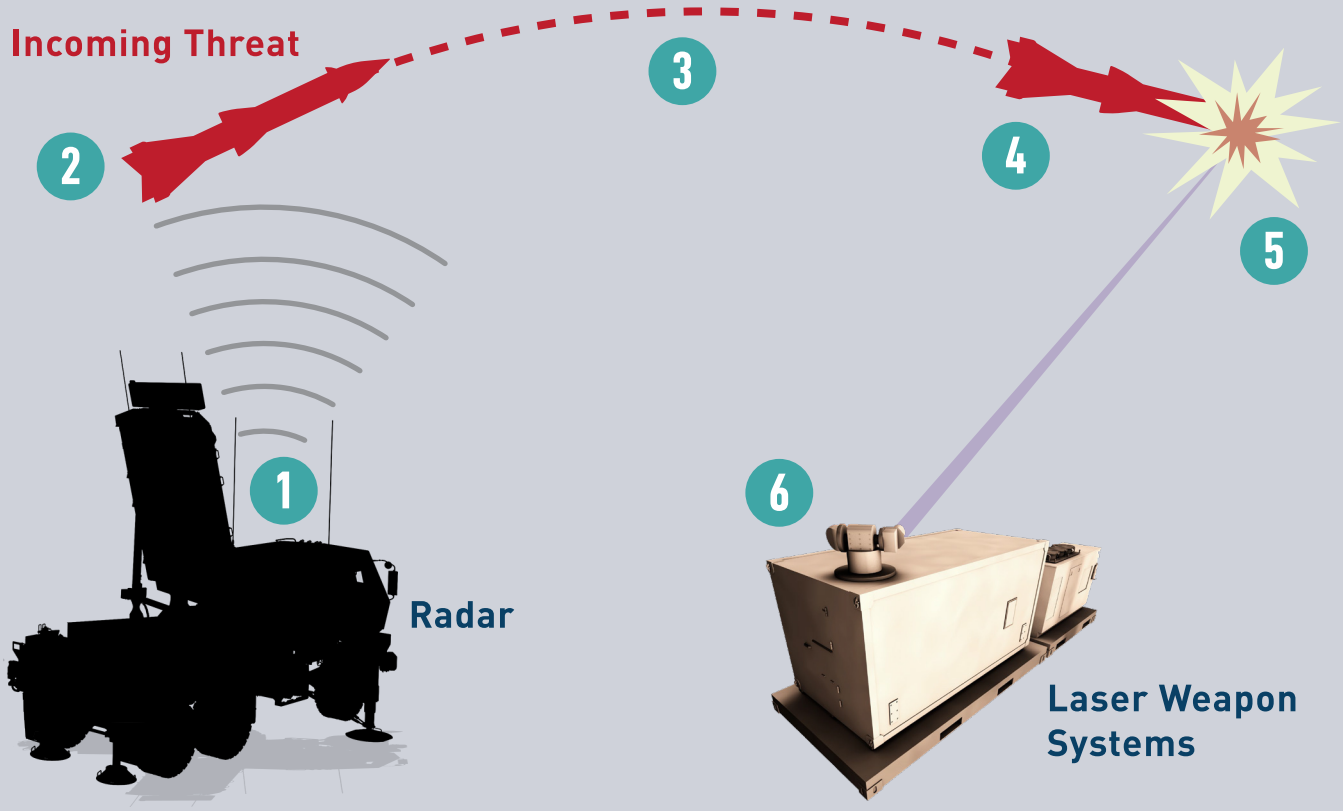
LAYERED LASER DEFENSE (LLD)

INTERCEPTING A CRUISE MISSLE

The high energy laser successfully tracked and defeated a target representing a subsonic cruise missile in flight.



LLD Threat Engagement Chain:

1 FIND
A surveillance sensor such as a radar detects potential threat and passes that contact through C2 and engagement manager to acquisition sensor.

2 FIX
Acquisition sensor begins tracking threat and puts laser turret boresight on target.

3 TRACK
Passive mid-wave IR sensor captures higher resolution target imagery for more precise target tracking.

4 TARGET
Target Illumination Laser (TIL) repositions laser on specific feature of target (e.g., missile seeker) that provides best option for target defeat.

5 ENGAGE
High Energy Laser (HEL) fires.

6 ASSESS
Tracking sensors observe target changes and confirm threat defeat.

https://www.lockheedmartin.com/content/dam/lockheed-martin/rms/documents/directed-energy/Layered_Laser_Defense_LLD_Product_Card.pdf

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