

# HADES

## – Highly mobile Air Defense System

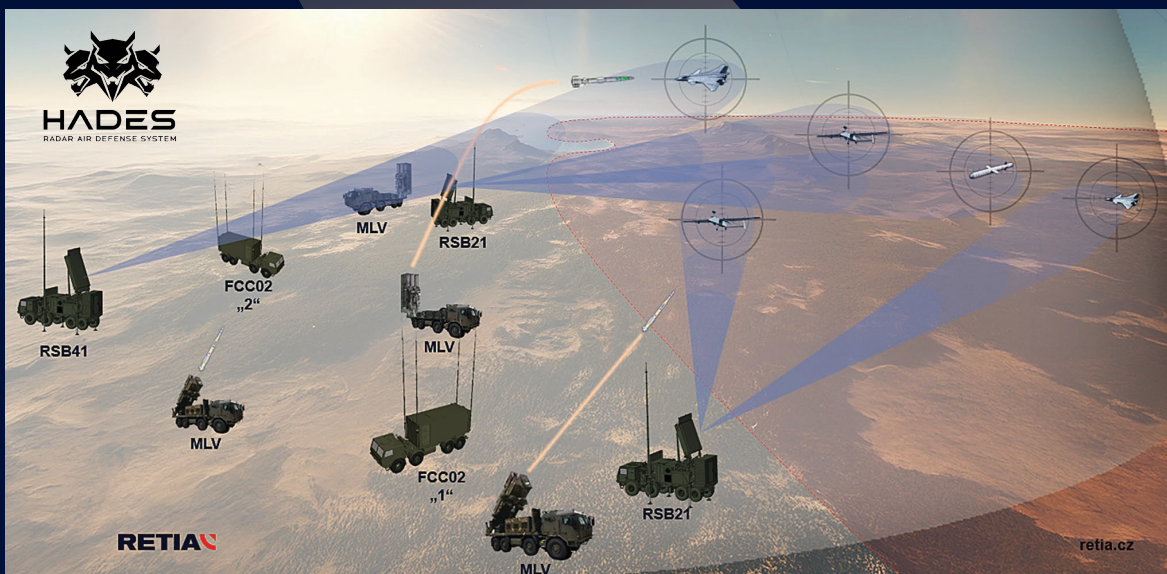
### Solution Description

The HADES is a mobile medium range surface-to-air missile air defence system. System is intended for neutralization of regular military, hybrid and terroristic air threats including fixed wing and rotary wing airplanes, unmanned aerial systems and cruise missiles. System is optimized for long term air defence operation protecting inhabitants and

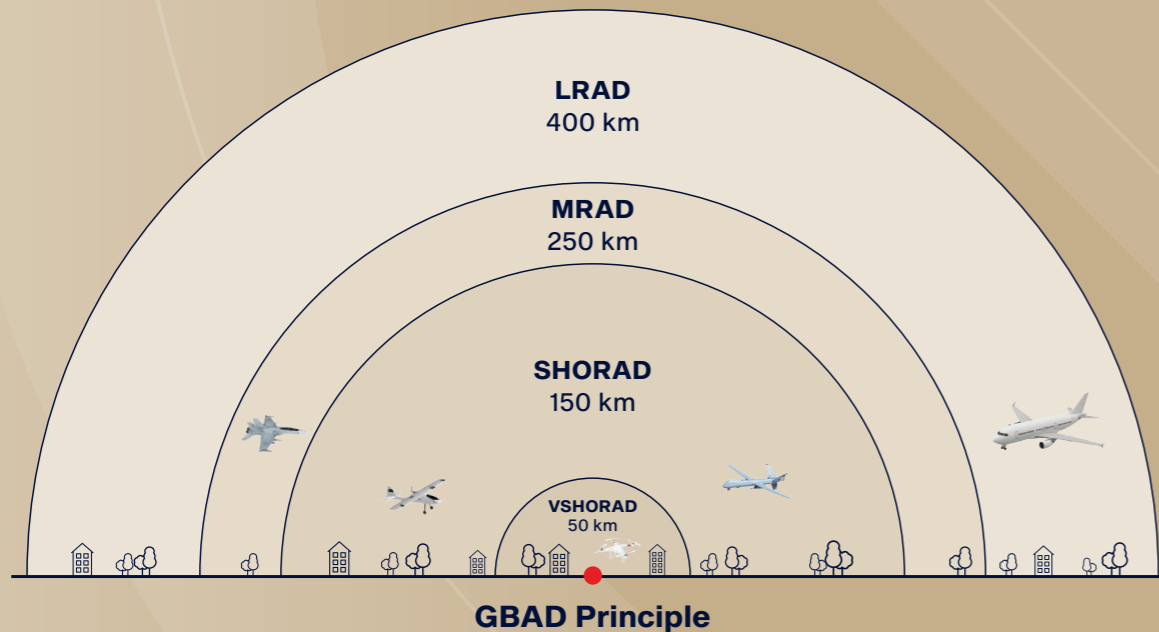
highly valuable assets against air attacks. The system can become the backbone of any country's air defence. The system consists of a radar component, a command-and-control component, and an effector component. The system is divided on sensor – radar component, command and control and an effector component.

### KEY FUNCTION

- Real-time communication
- Use of AI for the assessment of aerial threats
- The battery consists of support and service vehicles based on the specific customer solution
- The system can operate in extreme conditions, from tropical climates to polar wastelands
- Designed with regard to NATO standards
- ITAR-free



# Multi-Layered Air Defense



## The system primarily protects

- Critical infrastructure – ensuring uninterrupted operation of energy, communications, and other life-sustaining national systems
- Military assets – protecting key bases, headquarters, and operational capabilities of the armed forces
- Government and political centers – defending decision-making hubs and symbols of national sovereignty
- Strategic industry and economy – safeguarding manufacturing, logistics, and transportation pillars of the national economy
- Command, control, and information dominance – securing sensors, radars, and C2/C4ISR architecture
- Civil population – enhancing public safety and protecting densely populated urban areas
- Airspace over seas and oceans – extending protection to maritime routes, coastal areas, and expeditionary operations
- Designated national and allied territory – providing area-wide, layered defense against modern air and missile threats

## Potential threats

- Cruise missiles – low-flying, terrain-following precision strike weapons
- Manned combat aircraft – fighter, strike, and bomber aircraft operating across a wide altitude envelope
- Unmanned Aerial Systems (UAS) – Category MALE and above, employed for surveillance, reconnaissance, or strike missions
- Saturation and coordinated attacks – simultaneous, multi-vector assaults designed to overwhelm air defense systems
- Advanced aerial threats – technologically sophisticated threats operating in high-intensity conflict environments

## Effectors

The HADES system enables seamless integration of a wide range of effectors tailored to the customer's specific requirements and operational needs. The system is particularly suited for integration of:

- Surface-to-air guided missiles (SAMs)
  - the primary effector for engaging aircraft, cruise missiles, and UAVs at medium and long ranges
- Multi-purpose missiles – effectors optimized to address a wide spectrum of aerial threats within a single weapon system
- Vertically Launched Missiles (VLS) – enabling 360-degree coverage and rapid reaction without the need for mechanical launcher repositioning
- High-speed extended-range interceptors
  - designed to engage targets at high altitudes and at maximum engagement distances
- Network-enabled effectors – missiles integrated into the C2/C4ISR architecture with in-flight data exchange capabilities
- Future advanced effectors – incorporating next-generation interceptors with enhanced speed, accuracy, and resistance to electronic countermeasures

+420 466 852 531  
[info@retia.cz](mailto:info@retia.cz)

RETIA, a.s.  
Pražská 341, 530 02 Pardubice  
Czech Republic  
[retia.cz](http://retia.cz)

Member  
of | **CSG)**