



NATO AGS
North Atlantic
Treaty Organization
Alliance Ground
Surveillance

The Height of ISR Knowledge

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN

NATO AGS Programme

- NATO-owned and operated core capability
 - NATO Global Hawk High-Altitude, Long-Endurance (HALE) Unmanned Air Vehicle (UAV)
 - ◆ Proven performance incorporating lessons learned from current operations experience
 - Ground stations in mobile and transportable configurations for land or maritime use
 - Mission Operation Support (MOS) and Air Vehicle Missions Command and Control (AVMC2) capabilities at the Main Operating Base (MOB)
- Multi-Platform Radar Technology Insertion Program (MP-RTIP) — Leading Edge Technology
 - Providing concurrent terrestrial and maritime Ground Moving Target Indicator (GMTI) and Synthetic Aperture Radar (SAR) information in all-weather, day or night operations
- A system design available to participating NATO nations
- Follow-on production capability to meet additional NATO and national requirements
- Full training and logistics support
- Programme underway
 - Contract Award at NATO Summit 2012
 - Initial Operating Capability 2017
 - Full Operational Capability 2018

tems, and coordination of the ground entities through the MOS across geographically dispersed theatres of operations. This AVMC2 capability provides multiple UAV command and control, theatre-wide BMC2 and sensor and information management within an integrated ground-based Operations Centre.

The MOS and AVMC2, along with the training and logistics support elements, will be located at the Main Operating Base (MOB) at Sigonella Air Base in Italy.



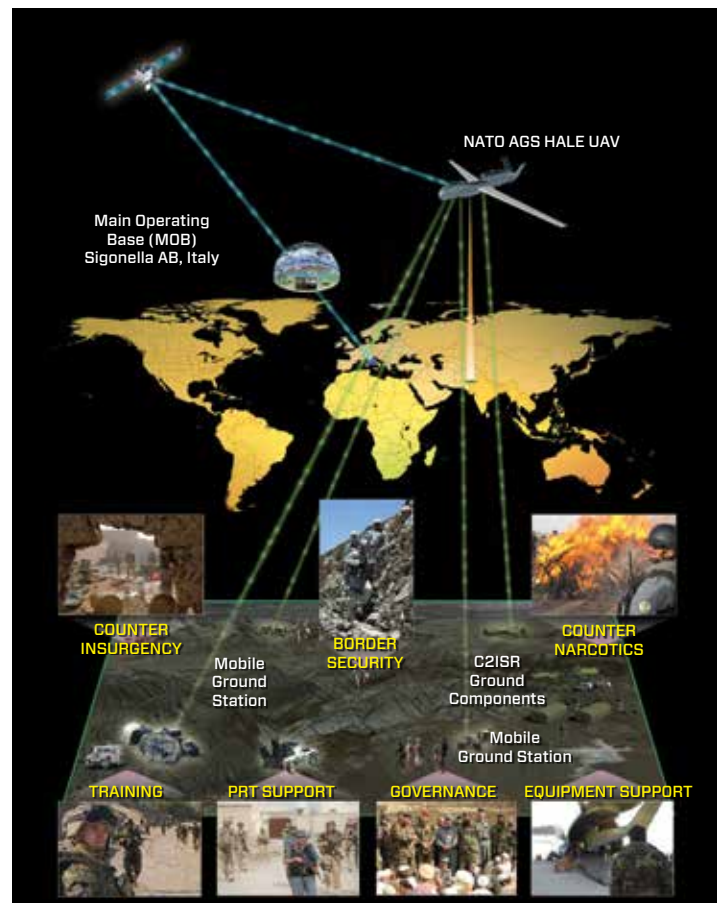
NATO AGS Global Hawk.

NATO AGS Components

The airborne entity is based on a modified RQ-4 Block 40 HALE UAV, enhanced to support NATO specific interoperability and communications requirements. The UAV is equipped with state-of-the-art, multi-mode, Multi-Platform Radar Technology Insertion Program (MP-RTIP) ground surveillance radar sensor, enhanced with an extensive suite of network-centric enabled Line-of-Sight (LOS) and Beyond-Line-of-Sight (BLOS) long-range, wide-band data links.

The European-sourced ground entities include a number of mobile and transportable ground stations, all managed by the Mission Operation Support (MOS), providing mission planning, connectivity, data processing and exploitation capabilities. In addition, they provide an interface between the AGS Core system and a wide range of interoperable interfaces for data exchange with interoperable NATO/National C4ISR systems.

The AVMC2 provides overall mission command and control of multiple air vehicles, coordination with interoperable NATO and national C2ISR sys-



NATO AGS Components.

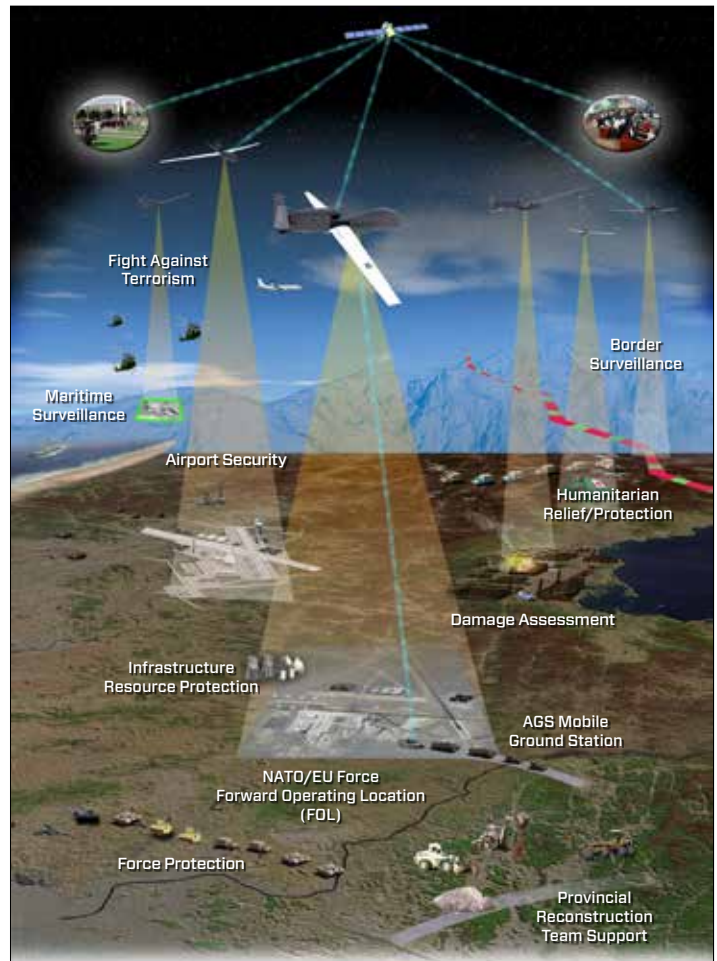
NATO AGS Operations

The AGS Core provides unprecedented real-time airborne ground surveillance and situational awareness information throughout the full range of operations for NATO and the nations. A system of systems, the AGS Core consists of air, ground, mission operations and support elements, performing all-weather, persistent wide-area terrestrial and maritime surveillance.

Using an advanced radar sensor, augmented with off-board Electronic Support Measures (ESM) and Identification Friend or Foe (IFF) sensors and Full Motion Video (FMV) information, the AGS Core fuses sensor data, continuously detects and tracks moving objects, and provides object emission profiles as well as imagery of stationary objects throughout the observed areas.

Each AGS Core ground entity and the AVMC2 exchanges NATO standard C2ISR data with the interoperable NATO and national systems, further expanding the situational awareness available to ground, maritime, and air commanders in support of NATO missions — anywhere in the world.

The AGS Core, supplemented by national systems, will provide unprecedented situational awareness to different levels of command in support of NATO forces engaged in the full range of missions.



NATO AGS Operations.



NATO AGS Participating Countries.

NATO and Industry

Capability

- Leading European and North American systems integrators

Experience

- Prime contractors for current operational national systems

Mature Industrial Participation (IP) Programme

- Key national companies leveraging existing capabilities and national investments with direct work in the programme
- Highly qualified companies providing cost savings and reduced risk to programme
- High potential for technology re-use in national programmes

High Quality Work and Jobs

- For industries of all participating nations

A Transformational Capability for NATO



SPECIFICATIONS

Wingspan: 130.9 ft (39.9 m)
Length: 47.6 ft (14.5 m)
Height: 15.4 ft (4.7 m)
Gross Takeoff Weight: 32,250 lbs (14,628 kg)
Maximum Altitude: 60,000 ft (18.3 km)
Payload: 3,000 lbs (1,360 kg)
Ferry Range: 12,300 nm (22,780 km)
Loiter Velocity: 310 knots TAS (True Air Speed)
On-Station Endurance Exceeds: 24 hrs
Maximum Endurance: 30 hours

For more information, please contact:

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