

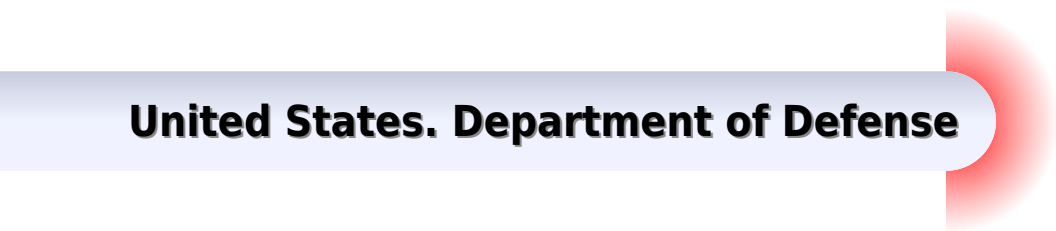
UNMANNED SYSTEMS ROADMAP

2007 - 2032



Unmanned Systems Roadmap 2007 2032 Black And White

United States. Department of Defense



Unmanned Systems Roadmap 2007 2032 Black And White:

Unmanned Systems Roadmap 2007-2032 (Black and White) Department of Defense, 2015-01-04 As the Department of Defense DoD develops and employs an increasingly sophisticated force of unmanned systems over the next 25 years 2007 to 2032 technologists acquisition officials and operational planners require a clear coordinated plan for the evolution and transition of unmanned systems technology With the publication of this document individual roadmaps and master plans for UASs UGVs and UMSs defined as Unmanned Undersea Vehicles UUVs and Unmanned Surface Vehicles USVs have been incorporated into a comprehensive DoD Unmanned Systems Roadmap This integrated Unmanned Systems Roadmap is the plan for future prioritization and funding of these systems development and technology thus ensuring an effective return on the Department's investment Its overarching goal in accordance with the Strategic Planning Guidance SPG is to guide military departments and defense agencies toward logically and systematically migrating applicable mission capabilities to this new class of military tools This Roadmap highlights the most urgent mission needs that are supported both technologically and operationally by various unmanned systems These needs listed below should be considered when prioritizing future research development and procurement of unmanned systems technology to ensure an effective return on the Department's investment

Unmanned Systems Roadmap Department of Defense, 2014-07-23 Today's military has seen an evolution in technology that is creating an entirely new capability to project power through the use of unmanned systems while reducing the risk to human life The contributions of unmanned systems continue to increase As of October 2006 coalition Unmanned Aircraft Systems UASs exclusive of hand launched systems had flown almost 400 000 flight hours in support of Operations Enduring Freedom and Iraqi Freedom Unmanned Ground Vehicles UGVs had responded to over 11 000 Improvised Explosive Device IED situations and Unmanned Maritime Systems UMSs had provided security to ports As a result of these successes the Quadrennial Defense Review QDR emphasized the importance of unmanned systems in the Global War on Terrorism GWOT

Unmanned Systems Roadmap, 2007 This is the first edition of the integrated Office of the Secretary of Defense Unmanned Systems Roadmap 2007 2032 which includes Unmanned Maritime Systems Unmanned Ground Systems and Unmanned Maritime Systems This road map provides Defense wide vision for unmanned systems and related technologies

Unmanned Systems Roadmap 2007-2032 (Color) Department of Defense, 2015-01-04 As the Department of Defense DoD develops and employs an increasingly sophisticated force of unmanned systems over the next 25 years 2007 to 2032 technologists acquisition officials and operational planners require a clear coordinated plan for the evolution and transition of unmanned systems technology With the publication of this document individual roadmaps and master plans for UASs UGVs and UMSs defined as Unmanned Undersea Vehicles UUVs and Unmanned Surface Vehicles USVs have been incorporated into a comprehensive DoD Unmanned Systems Roadmap This integrated Unmanned Systems Roadmap is the plan for future prioritization and funding of these systems development and technology thus ensuring an

effective return on the Department's investment. Its overarching goal in accordance with the Strategic Planning Guidance (SPG) is to guide military departments and defense agencies toward logically and systematically migrating applicable mission capabilities to this new class of military tools. This Roadmap highlights the most urgent mission needs that are supported both technologically and operationally by various unmanned systems. These needs listed below should be considered when prioritizing future research, development, and procurement of unmanned systems technology to ensure an effective return on the Department's investment.

Unmanned Aircraft Systems Roadmap, 2005-2030, 2005. As the Global War on Terrorism (GWOT) enters its fourth year, the contributions of unmanned aircraft (UA) in sorties, hours, and expanded roles continue to increase. As of September 2004, some twenty types of coalition UA, large and small, have flown over 100,000 total flight hours in support of Operation ENDURING FREEDOM (OEF) and Operation IRAQI FREEDOM (OIF). Their once reconnaissance-only role is now shared with strike force protection and signals collection, and in doing so, have helped reduce the complexity and time lag in the sensor-to-shooter chain for acting on actionable intelligence. UA systems (UAS) continue to expand, encompassing a broad range of mission capabilities. These diverse systems range in cost from a few thousand dollars to tens of millions of dollars and range in capability from Micro Air Vehicles (MAV) weighing less than one pound to aircraft weighing over 40,000 pounds. UA and unmanned systems in general are changing the conduct of military operations in the GWOT by providing unrelenting pursuit without offering the terrorist a high-value target or a potential captive. As the Department of Defense (DoD) develops and employs an increasingly sophisticated force of unmanned systems, including UA, over the next 25 years (2005 to 2030), technologists, acquisition officials, and operational planners require a clear, coordinated plan for the evolution and transition of this capability. The overarching goal of this Roadmap in following the Strategic Planning Guidance (SPG) is to guide the Military Departments and defense agencies toward a logical, systematic migration of mission capabilities to this new class of military tools. The goal is to address the most urgent mission needs that are supported both technologically and operationally by various UAS.

Page i FY2009-2034 Unmanned Systems Integrated Roadmap, United States Department of Defense, 2009. In today's military, unmanned systems are highly desired by combatant commanders (COCOMs) for their versatility and persistence. By performing tasks such as surveillance, signals intelligence (SIGINT), precision target designation, mine detection, and chemical, biological, radiological, nuclear (CBRN) reconnaissance, unmanned systems have made key contributions to the Global War on Terror (GWOT). As of October 2008, coalition unmanned aircraft systems (UAS), exclusive of hand-launched systems, have flown almost 500,000 flight hours in support of Operations Enduring Freedom and Iraqi Freedom. Unmanned ground vehicles (UGVs) have conducted over 30,000 missions, detecting and/or neutralizing over 15,000 improvised explosive devices (IEDs), and unmanned maritime systems (UMSs) have provided security to ports. In response to the Warfighter demand, the Department has continued to invest aggressively in developing unmanned systems and technologies. That investment has seen unmanned systems transformed from being primarily remote-operated, single

mission platforms into increasingly autonomous multi mission systems The fielding of increasingly sophisticated reconnaissance targeting and weapons delivery technology has not only allowed unmanned systems to participate in shortening the sensor to shooter kill chain but it has also allowed them to complete the chain by delivering precision weapons on target This edition of the Unmanned Systems Roadmap attempts to translate the benefit of these systems and technologies into the resultant combat capability by mapping specific unmanned systems to their contributions to Joint Capability Areas JCAs such as Battlespace Awareness Force Application Force Support and Logistics P xiii

Unmanned Systems Integrated Roadmap Department of Defense,2014-12-18 Unmanned systems continue to deliver new and enhanced battlefield capabilities to the warfighter While the demand for unmanned systems continues unabated today a number of factors will influence unmanned program development in the future Three primary forces are driving the Department of Defense s DoD approach in planning for and developing unmanned systems

Unmanned Systems Integrated Roadmap FY2013-2038 Department of Defense,2014-06-26 The purpose of this Roadmap is to articulate a vision and strategy for the continued development production test training operation and sustainment of unmanned systems technology across DoD This Unmanned Systems Integrated Roadmap establishes a technological vision for the next 25 years and outlines actions and technologies for DoD and industry to pursue to intelligently and affordably align with this vision

Page v Unmanned Systems Integrated Roadmap 2009-2034 United States. Department of Defense,2009 This is the second edition of the integrated Office of the Secretary of Defense Unmanned Systems Roadmap 2009 2034 that includes Unmanned Aircraft Systems Unmanned Ground Systems and Unmanned Maritime Systems This road map provides Defense wide vision for unmanned systems and related technologies

Unmanned Systems Integrated Roadmap James A. Winnefeld, Jr.,Frank Kendall,2014-03-01 Unmanned systems continue to deliver new and enhanced battlefield capabilities to the warfighter While the demand for unmanned systems continues unabated today a number of factors will influence unmanned program development in the future The Department of Defense DOD requires further innovative technical solutions that are effective yet affordable for program development The purpose of this Roadmap is to articulate a vision and strategy for the continued development production test training operation and sustainment of unmanned systems technology across DOD This Unmanned Systems Integrated Roadmap establishes a technological vision for the next 25 years and outlines actions and technologies for DOD and industry to pursue to intelligently and affordably align with this vision Figures This is a print on demand report

The Future and Use of Unmanned Air, Ground, and Sea Systems Department of Defense,2014-12-01 Unmanned systems continue to deliver new and enhanced battlefield capabilities to the warfighter While the demand for unmanned systems continues unabated today a number of factors will influence unmanned program development in the future Three primary forces are driving the Department of Defense s DoD approach in planning for and developing unmanned systems 1 Combat operations in Southwest Asia have demonstrated the military utility of unmanned

systems on today's battlefields and have resulted in the expeditious integration of unmanned technologies into the joint force structure. However, the systems and technologies currently fielded to fulfill today's urgent operational needs must be further expanded as described in this Roadmap and appropriately integrated into Military Department programs of record. POR to achieve the levels of effectiveness, efficiency, affordability, commonality, interoperability, integration, and other key parameters needed to meet future operational requirements.

2. Downward economic forces will continue to constrain Military Department budgets for the foreseeable future. Achieving affordable and cost-effective technical solutions is imperative in this fiscally constrained environment.

3. The changing national security environment poses unique challenges. A strategic shift in national security to the Asia Pacific Theater presents different operational considerations based on environment and potential adversary capabilities that may require unmanned systems to operate in anti-access area denial (A2/AD) areas where freedom to operate is contested. Similarly, any reallocation of unmanned assets to support other combatant commanders (CCDRs) entails its own set of unique challenges which will likely require unmanned systems to operate in more complex environments involving weather, terrain, distance, and airspace while necessitating extensive coordination with allies and host nations. The combination of these primary forces requires further innovative technical solutions that are effective yet affordable for program development. The purpose of this Roadmap is to articulate a vision and strategy for the continued development, production, test, training, operation, and sustainment of unmanned systems technology across DoD. This Unmanned Systems Integrated Roadmap establishes a technological vision for the next 25 years and outlines actions and technologies for DoD and industry to pursue to intelligently and affordably align with this vision. The Roadmap articulates this vision and strategy in eight chapters.

Department of the Navy Strategic Roadmap for Unmanned Systems (short Version)., 2022

U.S. Army Unmanned Aircraft Systems Roadmap 2010-2035: Eyes of the Army, 2010. The Unmanned Aircraft System (UAS) Roadmap outlines how the U.S. Army will develop, organize, and employ UAS from 2010 to 2035 across full spectrum operations. The Army UAS Roadmap is nested with the Unmanned Systems (UMS) Initial Capabilities Document (ICD) and capitalizes on UAS capabilities and emerging technologies so that the Warfighter can conduct missions more effectively with less risk. Experiences in Operation Enduring Freedom (OEF) and Operation Iraqi Freedom (OIF) prove that UAS significantly augment mission accomplishment by reducing a Soldier's workload and their exposure to direct enemy contact. The UAS serve as unique tools for the commander which broaden battlefield situational awareness and ability to see, target, and destroy the enemy by providing actionable intelligence to the lowest tactical levels. Unmanned platforms are the emerging lethal and non-lethal weapons of choice that will continue to transform how the Army prosecutes future operations and ultimately save lives. The eventual employment of sustainment cargo UAS will ensure responsive and uninterrupted sustainment support, ultimately increasing freedom of action and operational reach. The Roadmap, although not directive in nature, is a living document that factually and conceptually benchmarks the Army's UAS strategy for the next 25 years and

provides a common vision for all organizations responsible for synchronizing this transformation **2009 - 2034**

Unmanned Systems Integrated Roadmap - Unmanned Aircraft (UAS), Unmanned Aerial Vehicle (UAV), UGV Ground Vehicles, UMS Maritime Systems, Drones, Technologies, Current and Future Programs U. S.

Army, Department of Defense, U. S. Government, 2017-08-21 This book provides an abridged reproduction of an important illustrated military document about current and future unmanned systems drones and robots including Unmanned Aircraft UAS Unmanned Aerial Vehicles UAV UGV Ground Vehicles UMS Maritime Systems Drones Technologies Current and Future Programs providing a comprehensive guide to the state of the art in this critical area of military technology Contents include Unmanned Systems Applied to Joint Capability Areas JCAs Battle Space Awareness Force Application Protection Logistics Building Partnerships Force Support Command and Control C2 Net Centric Unmanned Systems Performance Envelope Performance Across Domains A Discussion of Reliability Availability and Maintainability for Unmanned Systems Performance Specific to Domains Air Domain Specific Performance Attributes Ground Domain Specific Performance Attributes Maritime Domain Specific Performance Attributes Goals and Objectives Methodology for Analysis Strengths and Opportunities Air Domain Ground Domain Maritime Domain Challenges and Risks Recommended Actions Unmanned Systems Technology Enablers Aligning Common Technologies Key Pacing Technologies Air Domain Ground Domain Maritime Domain UAS A160 Hummingbird Aerosonde Aqua Terra Puma Battlefield Air Targeting Micro Air Vehicle BATMAV WASP III Broad Area Maritime Surveillance Unmanned Aircraft System BAMS UAS Buster XM 156 Class I Combat Medic Unmanned Aircraft System UAS for Resupply and Evacuation FINDER Global Observer Improved Gnat Extended Range I Gnat ER Warrior Alpha Extended Range Multipurpose ER MP Block 0 Maverick MQ 1 Predator MQ 1C Extended Range Multi purpose ER MP MQ 5B Hunter MQ 8 Fire Scout MQ 9 Reaper formerly Predator B Onyx Autonomously Guided Parafoil System RQ 11 Pathfinder Raven RQ 14 Dragon Eye Swift RQ 15 Neptune Gasoline Micro Air Vehicle gMAV RQ 4 Global Hawk RQ 4 Global Hawk Maritime Demonstration GHMD RQ 7 Shadow 200 ScanEagle Silver Fox Small Tactical UAS STUAS Tier II UAS Tactical Mini Unmanned Air Vehicle TACMAV Unmanned Combat Aircraft System Carrier Demonstration UCAS D Wasp XM 157 Class IV UAS XPV 1 Tern XPV 2 Mako Unmanned Airship Systems Advanced Airship Flying Laboratory AAFL Hybrid Unmanned Aircraft Vehicle HUAV Persistent Elevated Reconnaissance Surveillance Intelligence Unmanned System PERSIUS Joint Land Attack Elevated Netted Sensor JLENS Rapid Aerostat Initial Deployment RAID Rapidly Elevated Aerostat Platform REAP Tethered Aerostat Radar System TARS Unmanned Aircraft System UAS Airspace Integration This is a privately authored news service and educational publication of Progressive Management Our publications synthesize official government information with original material they are not produced by the federal government They are designed to provide a convenient user friendly reference work to uniformly present authoritative knowledge that can be rapidly read reviewed or searched Vast archives of important data that might otherwise remain inaccessible are available for instant review no matter

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Unmanned Systems Integrated Roadmap FY2011-2036 United States. Department of Defense,2011 The purpose of this document is to describe a vision for the continued integration of unmanned systems into the Department of Defense DoD Joint force structure and to identify steps that need to be taken to affordably execute this integration DoD has seen rapid growth sparked in large part by the demands of the current combat environment in the development procurement and employment of unmanned systems Today s deployed forces have seen how effective unmanned systems can be in combat operations This experience has created expectations for expanding the roles for unmanned systems in future combat scenarios This roadmap establishes a vision for the next 25 years and outlines major areas where DoD and industry should focus to ensure the timely and successful adoption of unmanned systems *Unmanned Systems Integrated Roadmap Fy2011-2036* United States Government US Army,2013-10 This document provides a DoD vision for the continuing development fielding and employment of unmanned systems technologies Since publication of the last DoD Roadmap in 2009 the military Services have released individual Service roadmaps or related strategy documents This roadmap defines a common vision establishes the current state of unmanned systems in today s force and outlines a strategy for the common challenges that must be addressed to achieve the shared vision **Technology Development for Army Unmanned Ground Vehicles** National Research Council,Division on Engineering and Physical Sciences,Board on Army Science and Technology,Committee on Army Unmanned Ground Vehicle Technology,2003-02-01 Unmanned ground vehicles UGV are expected to play a key role in the Army s Objective Force structure These UGVs would be used for weapons platforms logistics carriers and reconnaissance surveillance and target acquisition among other things To examine aspects of the Army s UGV program assess technology readiness and identify key issues in implementing UGV systems among other questions the Deputy Assistant Secretary of the Army for Research and Technology asked the National Research Council NRC to conduct a study of UGV technologies This report discusses UGV operational requirements current development efforts and technology integration and roadmaps to the future Key recommendations are presented addressing technical content time lines and milestones for the UGV efforts *Unmanned Systems* ,2013 **AUVSI's Unmanned Systems North America 2007** Association for Unmanned Vehicle Systems International. Meeting,2006 [AUVSI Unmanned Systems Program Review 2007 ; Washington, DC, USA, 7 - 9 February 2007](#) Association for Unmanned Vehicle Systems International,2007

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