



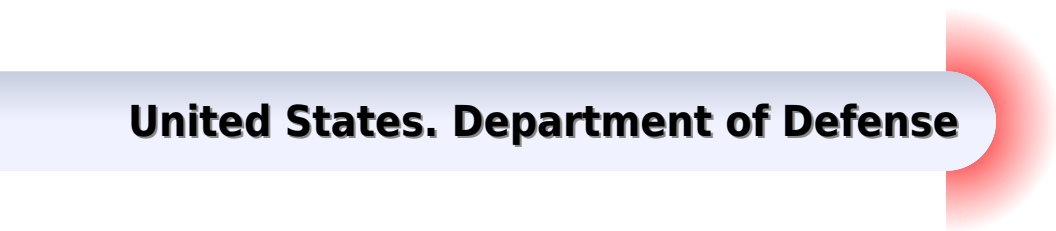
UNMANNED SYSTEMS ROADMAP

2007 - 2032



Unmanned Systems Roadmap 2007 2032 Black And White

United States. Department of Defense



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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 *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.

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

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

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Table of Contents Unmanned Systems Roadmap 2007 2032 Black And White

1. Understanding the eBook Unmanned Systems Roadmap 2007 2032 Black And White
 - The Rise of Digital Reading Unmanned Systems Roadmap 2007 2032 Black And White
 - Advantages of eBooks Over Traditional Books
2. Identifying Unmanned Systems Roadmap 2007 2032 Black And White
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Unmanned Systems Roadmap 2007 2032 Black And White
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unmanned Systems Roadmap 2007 2032 Black And White
 - Personalized Recommendations

- Unmanned Systems Roadmap 2007 2032 Black And White User Reviews and Ratings
- Unmanned Systems Roadmap 2007 2032 Black And White and Bestseller Lists
- 5. Accessing Unmanned Systems Roadmap 2007 2032 Black And White Free and Paid eBooks
 - Unmanned Systems Roadmap 2007 2032 Black And White Public Domain eBooks
 - Unmanned Systems Roadmap 2007 2032 Black And White eBook Subscription Services
 - Unmanned Systems Roadmap 2007 2032 Black And White Budget-Friendly Options
- 6. Navigating Unmanned Systems Roadmap 2007 2032 Black And White eBook Formats
 - ePub, PDF, MOBI, and More
 - Unmanned Systems Roadmap 2007 2032 Black And White Compatibility with Devices
 - Unmanned Systems Roadmap 2007 2032 Black And White Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unmanned Systems Roadmap 2007 2032 Black And White
 - Highlighting and Note-Taking Unmanned Systems Roadmap 2007 2032 Black And White
 - Interactive Elements Unmanned Systems Roadmap 2007 2032 Black And White
- 8. Staying Engaged with Unmanned Systems Roadmap 2007 2032 Black And White
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unmanned Systems Roadmap 2007 2032 Black And White
- 9. Balancing eBooks and Physical Books Unmanned Systems Roadmap 2007 2032 Black And White
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unmanned Systems Roadmap 2007 2032 Black And White
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Unmanned Systems Roadmap 2007 2032 Black And White
 - Setting Reading Goals Unmanned Systems Roadmap 2007 2032 Black And White
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Unmanned Systems Roadmap 2007 2032 Black And White
 - Fact-Checking eBook Content of Unmanned Systems Roadmap 2007 2032 Black And White

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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