

Summaries

Ihor Dolhov,

Head of Ukraine's Mission to NATO, Ambassador Extraordinary and Plenipotentiary, PhD in Linguistics,

Viktor Korendovych,

Deputy Head of Ukraine's Mission to NATO for Defense Affairs, Technical Sciences PhD

A Constructive Partnership: Defense Aspects of the NATO – Ukraine cooperation

Ukraine's cooperation with the North Atlantic Alliance represents an important tool in ensuring Ukraine's national security interests and bringing forward the national defense sector reform. It helps not only to adopt advanced standards and technologies in Ukraine, but also to engage major intellectual expertise and resources to deal with practical challenges.

Olexandr Zatynaiko,

Director of Defense Policy and Strategic Planning Department, Ukrainian Ministry of Defense, Military Sciences PhD, Colonel General,

Viktor Pavlenko,

Deputy Director, Defense Policy and Strategic Planning Department, Head of Defense Policy Section, Ukrainian Ministry of Defense, Colonel ret.,

Viktor Bocharnikov,

Technical Sciences PhD, Professor, Chief Research Fellow, Center for Military and Strategic Studies, Ivan Chernyakhovskyi Ukrainian National Defense University, Colonel ret.,

Serhiy Sveshnikov,

Technical Sciences PhD, Senior Research Fellow, Leading Researcher, Centre for Military and Strategic Studies, Ivan Chernyakhovskyi Ukrainian National Defense University, Lieutenant-colonel (ret.)

Slovak Republic's Security Policy and Military-Political Relations

This article continues a series of publications focusing on security policy foundations of the states surrounding Ukraine. It looks, in particular, at the historical context, geopolitical views, military and political disputes with other states. Findings of the research in question will provide major input in collecting the initial data required for the development and validation of Ukraine's national defense policy.

Yuriy Baydak,

Ukrainian Air Force Commander, Lieutenant General,

Serhiy Drozdov,

Deputy Ukrainian Air Force Commander, Lieutenant General,

Volodymyr Koval,

Military Sciences PhD, Senior Researcher,

Head of Military Scientific Department,

Ukrainian Air Force Command HQ, Colonel,

Olexandr Zharyk,

Deputy Chief of the Operational Division, Ukrainian Air Force Command, Colonel

Current Status and Prospects for Developing Fighter Aviation in the Ukrainian Armed Forces

The article discusses the main areas of military aircraft development and modernization in support of Ukraine's Air Force needs. It proposes a number of options to upgrade the Ukrainian fighter aviation and provide the Armed Forces of Ukraine with the fifth-generation multipurpose aircraft.

Vasyl Telelym,

Military Sciences PhD, Professor, Commandant of the Ivan Chernyakhovskyi Ukrainian National Defense University, Distinguished Scientist of Ukraine, Lieutenant General ret.,

Rodion Tymoshenko,

Military Sciences PhD, Senior Researcher, Head of the Centre for Military and Strategic Studies, Ivan Chernyakhovskyi Ukrainian National Defense University, Major General,

Yuriy Prykhodko,

Pedagogical Sciences PhD, Professor, Leading Researcher, Military Education and Science Research Department, Centre for Military and Strategic Studies, Ivan Chernyakhovskyi Ukrainian National Defense University, Colonel ret.

Military Education as a Component of the National Defense and Security System

The article summarizes the current approaches, forms and methods in pursuing defense and security policy by world's leading nations. Ways of promoting national interests by the leading nations are being analyzed, along with modern fighting techniques. The role of the national Armed Forces and the significance of military education as an important intellectual component of the country's defense and security system are being demonstrated. The main areas and ways of developing the national military education system are explored by the authors.

Iryna Vashchenko,

PhD in Economics, Associate Professor,
Deputy Head of the Centre for Military and Strategic Studies,
Ivan Chernyakhovskyi Ukrainian National Defense University,
Colonel,

Yevhen Marko,

PhD in Economics, Senior Research Fellow,
Defense Economy Research Section, Centre for Military
and Strategic Studies, Ivan Chernyakhovskyi Ukrainian
National Defense University

On the Planning and Forming Defense Budgets in the Modern Context

The authors analyze the most current aspects of defense budgeting and planning based on the progress in the implementation of the Ukrainian Armed Forces Development Program. The article reveals the main challenges in financing the Armed Forces, such as the present budget deficit, as well as other factors, which significantly hamper the development of the Ukrainian Armed Forces in the short- and medium-term prospect.

Yuriy Husak,

Military Sciences PhD, Chief of the Military Scientific
Directorate, General Staff of the Ukrainian Armed Forces,
Colonel,

Mykola Klischevskyi,

Senior Fellow at the Central Research Institute of the
Ukrainian Armed Forces, Colonel ret.

History of Military Research since Ukraine's independence: 1991–2013

The article focuses on the steps in establishing and developing the national military research system in the context of its task to provide scientific support in the building and developing of the Armed Forces of Ukraine as the foundation for guaranteeing the country's national defense and security.

Viktor Dykhanovskyi,

Technical Sciences PhD, Senior Researcher, Deputy Chief
of Defense Issues Section, Ukrainian Ministry of Defense,

Dmytro Zaklevskyi,

Technical Sciences PhD, Senior Research Fellow,
Defense Issues Section, Ukrainian Ministry of Defense,

Oleh Yurchenko,

Technical Sciences PhD, Chief Scientist, Defense Issues
Section, Ukrainian Ministry of Defense

Critical Technology: What is it?

Approaches to Identify Critical Capabilities

The article analyzes approaches in identifying critical capabilities applied by the world leading nations, as well as the challenges in identifying critical capabilities faced by the Ukrainian Armed Forces. The authors discuss the main stages in identifying critical technology lists and make suggestions as to creating such lists in the interests of the Ukrainian Armed Forces.

Ihor Odnoralov,

Technical Sciences PhD, Acting Director, Development
and Procurement Department, Ukrainian Ministry of Defense,

Ihor Chepkov,

Technical Sciences PhD, Professor, Head of the Central
Research Institute for Armaments and Military Equipment
of the Ukrainian Armed Forces,

Ihor Borkhovostov,

Chief Scientist, Science and Research Department for
Military-Technical Policy of the Central Research Institute for
Armaments and Military Equipment of the Ukrainian Armed
Forces, PhD Technical Sciences, Senior Research Fellow

Views on the Overall Structure of the Contemporary Scientific and Methodological Foundation for the Elaboration of the National Programs for the Development of Armaments and Military Equipment

The article focuses on today's status of defense planning methodology with regard to the development of armaments and military equipment. The main areas, as well as ways of improving methodology and scientific methods in elaborating the national programs for the development of armaments and military equipment and their subsequent practical implementation are being examined.

Serhiy Pashchenko,

Technical Sciences PhD, Senior Research Fellow,
Deputy Head of the National Aviation Research Institute
for Research Activity, Colonel,

Olexandr Lobunko,

Technical Sciences PhD, Senior Researcher,
Head of Section at the National Aviation Research Institute,
Colonel,

Volodymyr Samulyeyev,

Technical Sciences PhD, Associate Professor,
Senior Researcher at the National Aviation Research
Institute, Major General ret.

Ensuring the Proper Operation of the Military Aircraft Propulsion System as an Element of the National Air Force Combat Readiness

The articles looks at the main stages in creating a scientifically-grounded methodology and technological conditions for the proper operation of the military aircraft propulsion system in support of the national Ukrainian Air Force through the extension of lifetime, providing maintenance in line with the aircraft's technical condition and the development of major overhaul capacity at the national industrial facilities, as the national designers and producers fail to provide such a service.

Borys Lanetskyi,

Technical Sciences PhD, Professor, Senior Researcher at the Science and Research Department of the Air Force Science Center at the Kharkiv Air Force University,

Ihor Chepkov,

Technical Sciences PhD, Professor, Head of the Central Research Institute for Armaments and Military Equipment of the Ukrainian Armed Forces,

Vadym Luk'yanchuk,

Technical Sciences PhD, Senior Research Fellow, Head of the Science and Research Department of the Air Force Science Center at the Kharkiv Air Force University, Lieutenant colonel,

Ivan Nikolaev,

Technical Sciences PhD, Senior Research Fellow, Leading Scientist, Science and Research Department of the Air Force Science Center at the Kharkiv Air Force University

Structure and Trends in Developing a Technological Foundation of the Modern Medium- and Long-Range Anti-aircraft Missiles

The article examines global trends and provides analysis of the main areas and structure for developing a technological foundation for the construction of the modern medium- and long-range anti-aircraft missiles. It demonstrates that the technological basis for the modern anti-aircraft missiles should be viewed as a «macrotechnology» consisting of such components as the military production and industrial technologies. The authors seek to demonstrate ways of implementing «macrotechnologies» in the development and production of the most up-to-date anti-aircraft missiles in Ukraine.