# Nuclear, Missile & Space Digest

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# Convenor

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- US Arms Ultimatum to Saudi Arabia Unlikely to Be Matched by Action
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- Pentagon Seeks to Reassure Service Members on Access to Abortion
- US Security Strategy Reveals Reluctance to Engage in Equal Dialogue With Moscow: Russian Envoy
- American B-1B bombers land in Guam to 'deter adversaries' and reassure allies
- US Air Force Confirms B-1 Bombers Deployed to Guam, Says Not Tied to Any Country or Threat
- US DOE awards funds for nuclear recycling projects
- Ashton B. Carter, Defense Secretary Under Obama, Dies at 68
- Canada commits C\$970 million to new nuclear power technology
- U.S. house speaker Pelosi says Iran making 'big mistake' supplying Russia with drones
- Biden Says Russian Use of a Nuclear Weapon Would Be a 'Serious Mistake'
- US to send hi-tech nuclear weapons to Nato bases amid rising tensions with Russia
- Somalia Asks U.S. to Step Up Drone Strikes Against Qaeda-Linked Fighters

- U.S. Program Aims to Keep Sensitive Weapons in Ukraine
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- US must strengthen defenses in face of increasing threats from China and Russia, US defense strategy says
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- U.S. to Scrap Sea-Launched Nuclear Missile Despite Military Backing
- Westinghouse to study UK production of advanced nuclear fuel
- U.S. to provide Ukraine with \$275 mln in military aid, Blinken says
- USA, Japan partner with Ghana on SMR deployment

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- Kuwait reiterates support for nuclear non-proliferation
- Saudi king urges Iran to comply with nuclear deal
- UAE's nuclear energy chief lands global safety role

# O. Iran

- Iran Carries Out Initial Tests of Bavar 373 Missile System at Range of 300km
- Drones Embody an Iran-Russia Alliance Built on Hostility to the U.S.
- IRGC Commander Warns S. Arabia Against Meddling in Iran's Affairs
- 22 countries seek to buy Iranian drones: general
- Iran's Military Employs Homegrown Missile Fath 360 During Wargames
- Iran backs proposal on nuclear weapons convention
- Iran: Protests, EU Sanctions, a Nuclear Deal in Tatters
- Iranian combat drones in the war against Ukraine
- IRGC Conducts Aerial Practice During Wargames
- Leader hails Iran's astonishing achievements in military, nuclear, scientific fields
- Son of late Iran shah voices solidarity with Ukraine over drones
- Cyber group hacks Iran's nuclear company email system, demands release of detainees
- Iranian hacker group releases details about nuclear program
- Iranian army ground force holds large- scale military exercise
- Iran says Washington lacks political will to revive nuclear deal
- Who is hacking Iran's 'nuclear' server?
- N. Chief: Iran on track toward indigenizing reactors
- Iran thwarted 120 heavy cyberattacks in 20 days: official
- Iranian president calls on us not to waste time in N. Talks
- Iranian N. Chief reveals us message on talks
- At least 13 martyred, over 20 wounded in terror attack in Iran's Shiraz
- Iran calls Israel's conventional weapons arsenal threat to entire middle east
- Iranian destroyers to be armed with Abu Mahdi cruise missiles
- Top military official: Rioters complicit in Shiraz terror attack
- Military chief vows retribution against committers of Shiraz terrorist act
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- Iranian army says determined to revenge Shiraz terrorist attack
- Iranian intelligence minister: second terrorist behind Shiraz attack arrested
- Iran warns Germany against classifying IRGC as terrorists
- Tajik MFA denies report about assembly of Iranian drones

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• Israel must get rid of its nuclear weapons, UNGA majority decides

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- Conditions on F-16 sales to Turkiye dropped from US NDAA bill
- Turkiye test-fires domestic ballistic missile over Black Sea
- US not only way out for Turkiye if talks on F-16 sales fail: Erdogan
- Erdogan says Turkey's military never used chemical weapons
- Erdogan may speak with Biden as F-16 talks 'go on positively'
- Turkish delegation flies to US for talks on sale of F-16 fighters
- Turkish armed unmanned vessel shows naval capacities in NATO drill
- Turkish drone powerhouse Baykar to complete Ukraine plant in 2 years
- In-house built engines to power Turkiye's cruise missiles

# R. East Asia

- US, South Korea may hold joint air drills in response to rising North Korean nuclear threat
- North Korea's nuclear push is a 'serious concern': U.S. official
- The Case for South Korea to Go Nuclear
- Experts: North Korea's Expected Nuclear Missile Test Likely to Involve Miniature Warheads
- South Korean Official Calls for Shift in Its Nuclear Policy
- Allies warn North Korea against seventh nuclear test
- Analysis: U.S. and allies turn to deterring war with North Korea as options for preventing nuclear tests dwindle

# S. Opinion

• Launch of missile from Arihant a milestone. But India's nuclear triad isn't complete yet

## A. India

## India fires submarine missile warning at China, Pakistan

## Asia Times, October 17, 2022

India successfully tested a submarinelaunched ballistic missile (SLBM) from its indigenous INS Arihant nuclear ballistic missile submarine (SSBN), reaffirming its place in an elite club of nations with the ultimate in strategic nuclear deterrence. On October 14, the Indian Ministry of Defense (MoD) announced that the INS Arihant, which means "destroyer of enemies" in Sanskrit, successfully tested an SLBM, firing the missile at a predetermined range and impacting the designated target area at the Bay of Bengal with "very high accuracy," The Indian Express reported. "All operational and technological parameters of the weapon system have been validated," said the Indian MoD in a press statement.

https://asiatimes.com/2022/10/india-fires-submarine-missile-warning-at-china-pakistan/

A French Delegation led by Ms Chrysoula Zacharopoulou, Minister of State for Development calls on Union Minister Dr Jitendra Singh and discuss ways to speed up the setting up of the nuclear power reactors at Jaitapur site in Ratnagiri district of Maharashtra

## PIB, October 18, 2022

Minister, France Ms. Chrysoula Zacharopoulou, currently on India visit, called on Union Minister of State (Independent Charge) Space and Atomic Energy, Dr Jitendra Singh at North Block, New Delhi to discuss Indo-French collaboration in Nuclear Energy. She was accompanied by a high-level French delegation. The two sides discussed ways to speed up the setting up of the nuclear power reactors at Jaitapur site in Ratnagiri district of Maharashtra by joint collaboration. Emmanuel Lenain, Ambassador of France to India and other French officials including Thomas Mieusset, Nuclear Counsellor joined the deliberations. Indian Government has already accorded 'In-Principle' approval for setting up six nuclear power reactors of 1650 MW each in technical cooperation with France which would make it the largest nuclear power generating site with a total capacity of 9900 MW as part of an umbrella nuclear deal signed with France in September 2008.

https://pib.gov.in/ PressReleasePage.aspx?PRID=1868860

# India-Russia joint venture hopes for \$5 bln in supersonic missile exports by 2025

#### Reuters, October 18, 2022

An India-Russia joint venture that makes nuclear capable supersonic cruise missiles hopes to bag orders worth \$5 billion by 2025, its chairman said on Tuesday, having signed its first export deal of \$375 million this year with the Philippines.

https://www.reuters.com/business/aerospacedefense/india-russia-joint-venture-hopes-5-blnsupersonic-missile-exports-by-2025-2022-10-18/

# 'Aatmanirbharta' in Defence: Prime Minister Shri Narendra Modi announces fourth positive indigenisation list of 101 items during DefExpo 2022

### *PIB, October 19, 2022*

Ministry of Defence (MoD) has taken achieve numerous steps to 'Aatmanirbharta' in defence and Positive Indigenisation Lists is one of the landmark initiatives. The MoD had earlier promulgated 'First, Second and Third Positive Indigenisation Lists', comprising 310 items on August 21, 2020, May 31, 2021 and April 07, 2022 respectively. The 'Fourth Positive Indigenisation List' of 101 items was announced by Prime Minister Shri Narendra Modi during the opening ceremony of DefExpo 2022 in Gandhinagar, Gujarat on October 19, 2022. All the items included in the lists will be procured from indigenous sources as

per provisions given in Defence Acquisition Procedure (DAP) 2020. This list provides continuous impetus towards self-reliance in defence.

https://pib.gov.in/ PressReleasePage.aspx?PRID=1869080

# Prime Minister Shri Narendra Modi unveils indigenous trainer aircraft HTT-40, designed & developed by HAL, during DefExpo 2022

## PIB, October 19, 2022

Prime Minister Shri Narendra Modi unveiled HTT-40, an indigenous trainer aircraft designed and developed by Hindustan Aeronautics Limited (HAL), at the India Pavilion during 12<sup>th</sup> DefExpo in Gandhinagar, Gujarat on October 19, 2022. Raksha Mantri Shri Rajnath Singh, Chief Minister of Gujarat Shri Bhupendrabhai Patel were among those present on the occasion. The aircraft has state-of-the-art contemporary systems and has been designed with pilot-friendly features. With over 60 per cent in-house parts and collaboration of private industry, it is a shining example of the vision of 'Aatmanirbhar Bharat'. The HTT-40 would be used for basic flight training, aerobatics, instrument flying and close formation flights whereas its secondary roles would include navigation and night flying. It is a testament to the cutting-edge technology designed to meet primary training requirements of the Indian defence services.

https://pib.gov.in/ PressReleasePage.aspx?PRID=1869196

# PM Modi Launches 'Mission DefSpace' At DefExpo 2022

#### Outlook India, October 20, 2022

Prime Minister (PM) Narendra Modi launched Mission DefSpace in Gandhinagar on Wednesday. The initiative is aimed at developing innovative solutions for the defence forces in the space sector. "Space technology is an example of what security will mean for any strong nation in the future. Various challenges in this area have been reviewed and identified by the three services. We have to work fast to solve them," Modi said. Under Mission DefSpace, 75 challenges in the space sector have been identified for private firms to work on.

https://www.outlookindia.com/business/pmmodi-launches-mission-defspace-at-defexpo-2022 – news-231400

## India successfully tests new-gen nuclear-capable 'Agni Prime' ballistic missile

#### Hindustan Times, October 21, 2022

India on Friday morning successfully testfired 'Agni Prime' - a new generation of ballistic missiles - from off the coast of Odisha. Defence officials said all test objectives were met and said that the third consecutive (and successful) test of the 'Agni Prime' had 'established the accuracy and reliability of the system'. Performance was validated using data obtained by many tracking systems, including radar, telemetry and electro-optical systems, the officials said. These systems were deployed at different locations along the flight path, including two down-range ships at the terminal point, and covered the entire trajectory, officials added. The first test was in June last year, with the second six months later - in December. On both those occasions too the missile 'followed textbook trajectory and met all mission objectives with a high level of accuracy', officials said.

https://www.hindustantimes.com/india-news/ india-successfully-tests-new-generation-agniprime-ballistic-missile-101666343665560.html

# 16 Licensing Agreements for Transfer of Technology for 10 indigenous technologies handed over to 13 industries by DRDO during 'Bandhan' ceremony of DefExpo 2022

#### PIB, October 21, 2022

Defence Research & Development Organisation (DRDO) handed over 16 Licensing Agreements for Transfer of Technology (LAToT) for 10 DRDOdeveloped technologies to 13 industries during the 'Bandhan' ceremony of the 12<sup>th</sup> DefExpo in Gandhinagar, Gujarat on October 20, 2022. Raksha Mantri Shri Rajnath Singh presided over the ceremony, which saw a total of 451 Memoranda of Understanding, Transfer of Technology agreements and Product Launches. Of the 451, there were 345 MoUs, 42 Major Announcements, 46 Product Launches and 18 ToTs.

The contribution of Gujarat was 28 MoUs and one Product Launch. It envisages investment worth Rs 1.5 lakh crore. Indian Air Force and Hindustan Aeronautics Limited concluded a contract for 70 HTT-40 indigenous trainer aircraft worth Rs 6,800 crore.

https://pib.gov.in/ PressReleasePage.aspx?PRID=1870041

# ISRO to launch two deep space missions to Sun and Moon in 2023

## Deccan Herald, October 21, 2022

Within a span of six months, Indian Space Research Organisation is likely to send two deep-space probes to the Sun and the Moon in 2023, seeking to find out answers to some of the long standing puzzles on the two celestial bodies in the planetary system.

"The launch window for the Sun-bound Aditya-L1 mission is February 2023, but it is not a critical window. The Chandrayaan-3, on the other hand, is planned in June. The Moon-bound spacecraft is ready and we have made it more robust," S Somnath, chairman, Indian Space Research Organisation said here on Thursday. The ISRO chairman was talking to the journalists on the sidelines of a conference. The Chandrayaan-3 mission would replicate what the ill-fated Chandravaan-2 sought to achieve. Launched in 2019, India's second lunar mission failed as the lander crashed on the lunar surface due to a software glitch.

https://www.deccanherald.com/science-andenvironment/isro-to-launch-two-deep-spacemissions-to-sun-and-moon-in-2023-1155435.html

## Indian rocket launches 36 OneWeb satellites

## BBC, October 22, 2022

The London-based satellite company, OneWeb, is back on track with the launch of another 36 spacecraft for its global broadband internet system. The platforms went up on a LVM3 rocket from Sriharikota island in India. OneWeb's efforts to deploy its telecommunications network had been on hold since March when it was forced to suspend use of Russian Soyuz rockets. Sunday's flight brings the number of satellites now in orbit above the Earth to 462. This is more than 70% of the total OneWeb needs to achieve worldwide coverage with its firstgeneration constellation. The firm, part owned by the British government, expects to complete the roll-out in the middle of next year.

https://www.bbc.com/news/science-environment-63357354

# Telephonic conversation between Raksha Mantri Shri Rajnath Singh & Defence Minister of Russia Mr Sergei Shoigu

## PIB, October 26, 2022

Raksha Mantri Shri Rajnath Singh held a telephonic conversation with the Defence Minister of Russian Federation Mr Sergei Shoigu on October 26, 2022 at the latter's request. During the telecon, both Ministers discussed bilateral defence cooperation as well as the deteriorating situation in Ukraine. Defence Minister Shoigu briefed the Raksha Mantri on the evolving situation in Ukraine, including his concerns about possible provocations through use of 'dirty bomb'. Shri Rajnath Singh reiterated India's position on the need to pursue the path of dialogue and diplomacy for an early resolution of the conflict. He pointed out that the nuclear option should not be resorted to by any side as the prospect of the usage of nuclear or radiological weapons goes against the basic tenets of humanity.

https://pib.gov.in/ PressReleasePage.aspx?PRID=1870962

## India Space Congress 2022 opens today, to help startups tap \$1.5 trillion market

#### Money Control, October 26, 2022

The SatCom Industry Association (SIAIndia) is organising a three-day India Space Congress, ISC 2022, in New Delhi from October 26 to 28. Speakers from 30 countries will participate in the event. The theme of ISC 2022 is 'Leveraging Space to Power Next-Gen Communication & Businesses'. It will see several conferences to discuss the growth opportunities in India in the space sector. The vision of the event "is to bring all the high-level stakeholders together from space agencies, industry and institutions around the world under one roof to swap insights, strategies and rising trends for collaborative development of the space ecosystem in India and to bring global and regional economic benefits."

https://www.moneycontrol.com/news/india/indiaspace-congress-2022-opens-today-to-helpstartups-tap-1-5-trillion-market-9392761.html

## India's First Human Space Mission Gaganyaan's Test Flights Scheduled For February 2023

## Outlook India, October 27, 2022

The Indian Space Research Organisation (ISRO) will start a series of test flights for India's maiden human space flight mission from February next year, a senior official said here on Thursday. The space agency also plans to deploy the heavy lift Chinook helicopter and the C-17 Globemaster transport aircraft for testing the crew module, which will carry astronauts into the orbit for three days as part of the Gaganyaan flight human space mission, R Umamaheshwaran, Director of ISRO's Human Space Flight Centre said. Addressing the India Space Congress here, he said scientists at ISRO had completed the design of the Environment Control System, which will ensure ambient living conditions for astronauts in the crew service module when they are orbiting the earth.

https://www.outlookindia.com/national/india-sfirst-human-space-mission-gaganyaan-s-testflights-scheduled-for-february-2023-all-youneed-to-know-news-232912

# US to strengthen defence ties with India

## Livemint, October 28, 2022

To improve its ability to counteract Chinese aggression and resolve coercion in "grey zones" such as disputed land borders, the Biden administration plans to deepen its defence ties with India, according to the US National Defense Strategy 2022, published on October 27. Russia and China both represent serious challenges to crucial US national interests abroad and at home, with China being the most significant and systemic danger, the report says. The Department's strategic direction is established in this Congressmandated strategy review, which follows directly from President Joe Biden's National Security Strategy and supports US national security interests. "The Department will advance our Major Defence Partnership with India to enhance its ability to deter PCR (People's Republic of China) aggression and ensure free and open access to the Indian Ocean region," the document read.

https://www.livemint.com/news/world/us-tostrengthen-defence-ties-with-india-to-fightchinese-aggression-11666916433212.html

# Prime Minister lays foundation stone of C-295 transport aircraft manufacturing facility - country's first in private sector - in Vadodara, Gujarat

#### PIB, October 30, 2022

Prime Minister Shri Narendra Modi laid the foundation stone of C-295 transport aircraft manufacturing facility - the country's first in the private sector - in Vadodara, Gujarat on October 30, 2022. The facility will manufacture C-295 aircraft for the Indian Air Force (IAF) through collaboration between Tata Advanced Systems Limited and Airbus Defence and Space S.A., Spain. This is the first project of its kind in which a military aircraft will be manufactured in India by a private company. The total cost of the project is Rs 21,935 crore. The aircraft can be used for civilian purposes as well. 40 aircraft to be made in India by TATA Consortium & Airbus Defence; Multi-role C-295 aircraft can operate under all weather conditions during day as well as night; Equipped for quick reaction & para dropping of troops/cargo.

https://pib.gov.in/ PressReleasePage.aspx?PRID=1872024

# ISRO to develop reusable rockets, aims to set up space station by 2035: Report

### Hindustan Times, October 30, 2022

As India eyes setting up its own space station by 2035, the Indian Space Research Organisation (ISRO) has proposed to the industry to collaborate with it in developing a reusable rocket capable of carrying heavier payloads into orbit. Dubbed as the Next-Generation Launch Vehicle (NGLV), ISRO Chairman S Somanath said the space agency was working on the design of the rocket and would like the industry to collaborate with it in the development. "The intent is to bring industry along in the development process. All the money need not be invested by us. We want the industry to invest to create this rocket for all of us," Somanath told PTI here. He said the rocket is planned to carry a 10 tonne payload in the Geostationary Transfer Orbit (GTO) or 20 tonnes to the low earth orbit. Another ISRO official said the new rocket would be helpful as India plans to have its own space station by 2035 and was also eyeing deep space missions, human space flights, cargo missions and putting multiple communication satellites into orbit at the same time.

https://www.hindustantimes.com/science/isro-todevelop-reusable-rockets-aims-to-set-up-spacestation-by-2035-report-101667130787541.html

## B. Russia

# NATO and Russia to hold long planned exercises of nuclear forces as tensions over Ukraine remain high

## CNN, October 16, 2022

NATO and Russia are set to separately hold long planned exercises of their nuclear forces at a time of huge tension as Russia continues its war on Ukraine. The Pentagon and the US intelligence community are watching for any unexpected or unusual movements of Moscow's nuclear weapons during Russia's exercise, which is expected to take place before the end of the month, according to several US officials. "We believe that that Russian nuclear rhetoric and its decision to proceed with this exercise while at war with Ukraine is irresponsible. Brandishing nuclear weapons to coerce the United States and its allies is irresponsible," a senior defense official told CNN.

https://edition.cnn.com/2022/10/16/politics/ nato-russia-exercises/index.html

# Eleven killed in terrorist attack at training range in Belgorod Region – Defense Ministry

#### *TASS, October* 16, 2022

Two citizens of a CIS country carried out a terrorist attack during a shooting training session at a military training ground in the Belgorod Region, eleven people were killed in the attack and 15 more were wounded, the Russian Defense Ministry told reporters on Saturday. "On October 15, two citizens of a CIS country committed an act of terror at training range of the Western Military District in the Belgorod Region," the ministry said.

https://tass.com/defense/1523327

## Angara-1.2 rocket launches military satellite from Plesetsk spaceport – Defense Ministry

#### TASS, October 16, 2022

An Angara-1.2 light carrier rocket blasted off from the Plesetsk Cosmodrome in the Archangelsk Region on Saturday carrying a space module for the Russian Defense Ministry, the ministry told reporters. "On Saturday at 22:55 Moscow time, combat crews of the Space Force of Russia's Aerospace Forces carried out a successful launch of the Angara-1.2 light-class launch vehicle with a spacecraft for the Russian Defense Ministry from the State Test Cosmodrome Plesetsk," the ministry said.

https://tass.com/defense/1523337

# NATO Holds "Routine" Nuclear Drill Amid Russia Tensions

## Kyiv Post, October 17, 2022

Launched its regular nuclear deterrence drills in western Europe, after tensions soared with Russia over President Vladimir Putin's veiled threats in the face of setbacks in Ukraine. The 30-nation alliance has stressed that the "routine, recurring training activity" — which runs until October 30 was planned before Moscow invaded Ukraine and is not linked to the current situation. It will involve US B-52 long-range bombers, and up to 60 aircraft in total will take part in training flights over Belgium, the United Kingdom and the North Sea.

https://www.kyivpost.com/world/nato-holdsroutine-nuclear-drill-amid-russia-tensions.html

## Moscow says Russian, Syrian forces killed 20 militants, terrorist attack organizers

## TASS, October 17, 2022

Russian and Syrian troops conducted a special operation in the Arab country's south, killing 20 militants, including the organizers of the terrorist attack on a bus of the Syrian forces, Head of Russia's Center for Reconciliation of the Opposing Sides in Syria Major General Oleg Yegorov said on Sunday. The special operation took place in the Daraa province and targeted Islamic State (banned in Russia) militants that were involved in the terrorist attack on a Syrian military bus that killed 19 people and wounded another 22, the major general said at a news conference.

#### https://tass.com/defense/1523499

# About 170 tanks, 200 combat vehicles to arrive in Belarus from Russia — military brass

## TASS, October 17, 2022

About 170 tanks, 200 combat vehicles and 100 artillery guns and mortars will arrive in Belarus from Russia to reinforce the regional group of forces, Chief of the Belarusian Defense Ministry's International Military Cooperation Department Valery Revenko said on Monday. "The contingent that will arrive in the Republic of Belarus will total up to 9,000 personnel, about 170 tanks, up to 200 combat armored vehicles and up to 100 guns and mortars of a caliber of over 100 mm," the defense official wrote on his Twitter page.

https://tass.com/defense/1523743

## Latest Russian corvette carrying Kalibr cruise missiles enters tests in Baltic Sea

#### *TASS, October* 17, 2022

The Project 22800 state-of-the-art missile corvette Burya carrying Kalibr cruise missiles and built at the Pella Shipyard for the Russian Baltic Fleet is undergoing shipbuilders' sea trials at Baltic naval ranges, the Fleet's press office announced on Monday.

https://tass.com/defense/1523855

# A Russian Nuclear Strike on Ukraine Is Not a Threat – At Least Not Yet

#### The Moscow Times, October 18, 2022

After a few frantic weeks early on in the Ukraine war when all parties found their respective red lines, the issue of nuclear weapons faded into the background. However, recent events — the annexation of four Ukrainian regions by Russia and the promise to protect its territorial integrity "by all the means available" — has understandably made people nervous and caused the nuclear problem to resurface. Experts and politicians now openly talk about "Russia's nuclear threats," discuss how Russia could use nuclear weapons and contemplate what to do if Russia takes such a momentous step.

https://www.themoscowtimes.com/2022/10/18/arussian-nuclear-strike-on-ukraine-is-not-a-threatat-least-not-yet-a79114

## Russian envoy blasts NATO's drills as violating nuclear test ban treaty

## TASS, October 18, 2022

NATO's nuclear deterrence drills Steadfast Noon violate the Comprehensive Nuclear-Test-Ban Treaty (CTBT) as they involve the personnel of non-nuclear states, Konstantin Gavrilov, head of the Russian delegation at the Vienna talks on military security and arms control, said in a live broadcast on the Rossiya-24 TV Channel said on Tuesday.

https://tass.com/defense/1524143

# Russia Ñan Rebuild Military in 2-4 Years: Estonia

#### Kyiv Post, October 19, 2022

Russia will likely need two to four years to rebuild its military to the strength before the Ukraine war, Estonia's defense minister said Tuesday, Oct.18, urging continued pressure to keep Moscow in check. On a visit to Washington, Defense Minister Hanno Pevkur predicted a long war and urged the West to stand with Ukrainians until they achieve victory for "the free world." As Russia turns to suspected Iranian kamikaze drones to attack Ukraine, Pevkur said he has heard accounts that Moscow's arsenal has been so drained that it is using its S-300 air defense system as ordinary missiles and that Russian shells have exploded in the air because they are too old.

https://www.kyivpost.com/world/russia-sanrebuild-military-in-2-4-years-estonia.html

# Kiev rejects peace talk offers as it continues to shell new regions of Russia – Putin

## *TASS, October* 19, 2022

Ukraine has rejected all offers to negotiate a ceasefire, continuing to shell Russia's new regions and using outright terrorist methods, Russian President Vladimir Putin said at a Security Council meeting held via video conference. "The Kiev regime, as you know, has refused to recognize the will and choice of the people, it rejects any proposals for negotiations. On the contrary, shelling continues, civilians are dying," the Russian president said. "Neo-Nazis (the Ukrainian armed forces - TASS) are using overt terrorist methods, sabotaging life support facilities," Putin added.

https://tass.com/defense/1524903

## More than 100 Russian ships currently perform missions in world ocean – Defense Ministry

## TASS, October 19, 2022

More than 100 ships, submarines and support vessels of the Russian Navy are now on various missions in different parts of the World Ocean, the Russian Defense Ministry said on Wednesday. "Today, more than 100 ships, submarines and support vessels are performing the assigned tasks in various areas of the World Ocean," the Navy's commander-inchief, Admiral Nikolay Yevmenov, is quoted as saying at a meeting of the Admiralty Coordinating Council of naval veteran's organizations.

https://tass.com/defense/1525003

# Russian errors prompted the deployment of Iranian drone personnel to Ukraine, a U.S. official says.

#### The New York Times, October 20, 2022

A senior U.S. official said Thursday that Russian errors in operating drones purchased from Iran had prompted the deployment of Iranian personnel to Crimea and warned that Russia might try to obtain other advanced weapons from Tehran. John F. Kirby, a National Security Council official, said in a briefing that Iran had deployed drone trainers to Crimea after the Russian military had suffered "operator and system failures early on" with the drones.

https://www.nytimes.com/2022/10/20/world/ europe/russia-iran-dronesukraine.html?searchResultPosition=35

## Moscow Open for Dialogue with US on Deescalation and Arms Control

## Sputnik International, October 20, 2022

Moscow is open for dialogue with the United States on deescalation anf arms control, Russian Foreign Ministry spokeswoman Maria Zakharova saidf on Thursday. Commenting on Assistant Secretary for the Bureau of Arms Control Mallory Stewart's statement this week that the US is ready to quickly start talks on a new arms control framework to replace the New START Treaty when it expires in 2026, the diplomat said that such remarks are not supported by substantive appeals via working channels and only pursue propaganda purposes.

https://sputniknews.com/20221020/moscow-openfor-dialogue-with-us-on-deescalation-and-armscontrol-1102456056.html

## Russian missile corvette holds artillery firings in Sea of Japan drills

#### TASS, October 21, 2022

The crew of the Russian Pacific Fleet's Project 20380 missile corvette Sovershenniy conducted artillery and air defense firings during drills in the Sea of Japan, the Fleet's press office reported on Friday. "Under the scenario of the naval exercise, the corvette was assigned with passing through a mine dangerous zone. The ship's crew employed radio-technical equipment, timely detected minefields set up by a notional enemy and destroyed them by firing AK-630 artillery guns," the press office said in a statement.

## Russian top brass posts clip of Iskander missile strike on Ukrainian military targets

## *TASS, October* 21, 2022

Russia's Defense Ministry uploaded a video of an Iskander tactical missile system wiping out the Ukrainian army's military infrastructure used for the delivery of Western weapons. "During the combat alert, a battalion command post received the target's coordinates. The team of an Iskander-M tactical missile system of the Central Military District readied the launcher and delivered a pinpoint strike by a ballistic missile against the Ukrainian army's military infrastructure. The target was obliterated," the ministry said in a commentary.

https://tass.com/defense/1525757

# Russia's patrolling Su-30SM jet shoots down Ukrainian combat aircraft – Defense Ministry

#### TASS, October 22, 2022

The crew of a Su-30SM multirole fighter aircraft belonging to the Russian Aerospace Forces, which was protecting bomber and fighter aircraft and helicopters, spotted and took out an aircraft of the Ukrainian armed forces, the Russian Defense Ministry wrote on its Telegram channel on Saturday. "The personnel mastered patrolling of an assigned area and monitoring the activities of bomber and attack aircraft as well as army aviation during airstrikes against military infrastructure and hardware of the Armed Forces of Ukraine," the post says. "During the sortie, Su-30SM pilots detected and neutralized" an aircraft belonging to the Ukrainian armed forces.

#### https://tass.com/defense/1526131

## Kiev Preparing 'Nuclear Incident' Provocation Against Russia, Sources Say

#### Sputnik International, October 23, 2022

Russian President Vladimir Putin has repeatedly warned that there can be no

https://tass.com/defense/1525707

winner in a nuclear war, and that it should never be unleashed. The Kiev regime is preparing a provocation related to the detonation of the so-called "dirty bomb" in Ukraine, unnamed credible sources in various countries, including Ukraine, have said. A "dirty bomb", also known as a "radiological dispersal device," or RDD, combines a conventional explosive with radioactive material. Such a bomb typically uses dynamite or other explosives to scatter radioactive dust or smoke so as to cause radioactive contamination.

https://sputniknews.com/20221023/kiev-preparing-nuclear-incident-provocation-against-russiasources-say-1102544673.html

## A Russian fighter jet crashes into a home in Siberia, killing the two pilots.

#### The New York Times, October 23, 2022

A Russian fighter jet smashed into a home in the Siberian city of Irkutsk during a test flight on Sunday, killing the two pilots, Russian state media reported. It was the second crash of a Russian warplane in a residential area within a week. The plane, an Su-30, set off a fire, but there were no civilian casualties and the blaze has been extinguished, Russia's state-run news agency Tass reported, citing emergency officials.

https://www.nytimes.com/2022/10/23/world/ europe/russian-fighter-jet-crashserbia.html?searchResultPosition=27

# 15 Ukrainian drones, 6 HIMARS rockets, one HARM missile downed during day

### TASS, October 23, 2022

Fifteen Ukrainian drones, six HIMARS rockets and one HARM anti-radar missile were downed by Russian air defense systems during the past day, Russian Defense Ministry Spokesman Igor Konashenkov said on Sunday. "During the day, air defense systems downed 15

Ukrainian unmanned aerial vehicles near the settlements of Staritsa, Ishchenka, Borozenskoye, and Tokarevka in the Kherson region, Lyubimovka in the Zaporozhye region, Yegorovka, Staromayorskoye, and Blagoveshchenka in the Donetsk People's Republic, Verkhnyaya Duvanka, Kuzemovka, and Oborotnovka in the Lugansk People's Republic. Apart from that, six HIMARS rockets and one HARM anti-radar missile were intercepted near the settlements of Kakhovka in the Kherson region, and Svatovo in the Lugansk People's Republic," he said.

#### https://tass.com/defense/1526299

# Russian defense minister discusses situation in Ukraine with Pentagon chief

## TASS, October 23, 2022

The situation in Ukraine was the focus of telephone talks between Russian Defense Minister Sergey Shoigu and Pentagon chief Lloyd Austin, the second ones in the past three days, the Russian defense ministry said on Sunday. "Telephone talks between Russian Defense Minister Army General Sergey Shoigu and US Secretary of Defense Lloyd Austin. The two defense ministers discussed the situation in Ukraine," the ministry said.

https://tass.com/defense/1526325

# Russian forces "preparing to work under radioactive contamination" - Moscow

#### Reuters, October 24, 2022

Russia's Defence Ministry said on Monday that it had prepared its forces to work in conditions of radioactive contamination, after Moscow accused Ukraine of planning to detonate a "dirty bomb" something Kyiv has strongly denied.

https://www.reuters.com/world/russia-says-itsforces-are-preparing-work-under-radioactivecontamination-2022-10-24/

## Kiev is preparing provocation against civilians – Russian Defense Ministry

TASS, October 24, 2022

Ukraine is preparing a provocation on Monday in the Kharkov Region with mercenaries' firing against civilians to accuse Russian Armed Forces, the Interdepartmental Coordination Center for Humanitarian Response in Ukraine said on Monday. "The Kiev regime is preparing a bloody provocation with death of their citizens for the purpose of accusing the Russian Federation of a war crime. On October 24, a unit of foreign mercenaries will shell the crowding point of civilians from artillery pieces in the city of Volchansk of the Kharkov Region during food aid distribution," the Center said.

https://tass.com/defense/1526393

## Russian MoD Has Info on Contacts Between Ukraine, UK on Nuke Tech

#### Sputnik International, October 24, 2022

Earlier in the day, Foreign Minister Sergei Lavrov announced plans to bring up Ukraine's alleged efforts to stage a dirty bomb provocation up at the United Nations. On Sunday, Russia's defense minister informed his NATO counterparts on the threat of a Ukrainian dirty bomb false flag attack. Kiev and its sponsors have dismissed the allegations. The Russian military has information on contacts between Ukrainian President Volodymyr Zelensky's office and British representatives on the matter of nuclear weapons technology, Igor Kirillov, the head of Russia's Radiation, Chemical and Biological Defense Troops, has revealed.

https://sputniknews.com/20221024/russian-modhas-info-on-contacts-between-ukraine-uk-onnuke-tech – 1102582411.html

# Russia ramps up production of all types of weapons — official

## TASS, October 24, 2022

Russia is boosting production of all types of weapons from tanks and guns to high-

precision missiles and drones, Russian Security Council Deputy Chairman Dmitry Medvedev said on Monday. "The production of weapons and special equipment of all types is increasing manyfold: from tanks and guns to highprecision missiles and drones. Brace yourself!" he said on Telegram. The politician addressed Russia's opponents and advised them not to hope that the country would run out of armaments.

https://tass.com/defense/1526773

## Kiev regime targets Donetsk with nine-minute bombardment using GRAD MLRS

#### TASS, October 25, 2022

The Ukrainian armed forces on Tuesday morning once again shelled Donetsk, firing eight shells at the town within nine minutes, the Donetsk People's Republic's mission to the Joint Center for Control and Coordination of Issues Related to War Crimes of Ukraine (JCCC) reported. "The Ukrainian armed forces shelled the town. At 09:14 five rockets from Grad [MLRS] were fired at the Kirovsky district of Donetsk, at 09:23 three shells of 155 mm caliber were fired at the Kievsky district of Donetsk," the mission said in a message on its Telegram channel.

https://tass.com/defense/1526961

# Russian official: IAEA proposal for secure zone around Zaporizhzhia nuclear plant is 'reasonable'

#### Reuters, October 25, 2022

A senior Russian official said on Tuesday that Moscow was generally supportive of the idea of creating a secure zone around the Zaporizhzhia nuclear power plant, the TASS news agency reported.

https://www.reuters.com/world/europe/russianofficial-iaea-proposal-secure-zone-aroundzaporizhzhia-nuclear-plant-is-2022-10-25/

## NATO Warns Russia Against "Dirty Bomb" Pretext

## Kyiv Post, October 25, 2022

Russia must not escalate the conflict in Ukraine with false claims that Kyiv is planning to unleash a so-called "dirty bomb", the head of NATO warned Monday, Oct.24. Jens Stoltenberg weighed in following Moscow's repeated allegations that Ukraine could deploy such a weapon, sparking fears Russia could use one and blame Kyiv. The head of the US-led military alliance said he had spoken with Pentagon chief Lloyd Austin and Britain's Defence Secretary Ben Wallace "about Russia's false claim that Ukraine is preparing to use a dirty bomb on its own territory."

https://www.kyivpost.com/ukraine-politics/natowarns-russia-against-dirty-bomb-pretext.html

## Analysts Say Moscow's "Dirty Bomb" Claims Just a Diversion

### Kyiv Post, October 25, 2022

Russia's claim this week that Ukraine could use a so-called "dirty bomb" on its own territory is seen by analysts as a new attempt to stoke fear of nuclear escalation among Kyiv's backers, if not a pure and simple distraction. A "dirty bomb" is a conventional bomb laced with radioactive, biological or chemical materials which get disseminated in an explosion. The term is often used interchangeably with radiological dispersal device (RDD), a bomb where radioactive materials are used.

https://www.kyivpost.com/russias-war/analystssay-moscows-dirty-bomb-claims-just-adiversion.html

## New defense contractors needed in Russia – Putin

### TASS, October 25, 2022

Competition should grow among domestic producers and new manufacturers must emerge to meet the needs of the military, Russian President Vladimir Putin said on Tuesday at a meeting of the coordination council for support of Armed Forces' needs. "It is not enough to follow a beaten path, interacting with a narrow group of the same contractors, in order to achieve a breakthrough result. Competition should be intensified, new manufacturers should appear here - efficient and modern, ready to work in a new required format," the head of state noted.

#### https://tass.com/defense/1527239

# Russian troops destroy pro-Kiev mercenary force that attacked LPR

### TASS, October 26, 2022

Units of the Russian armed forces have dealt a "crushing blow" to an assault force of pro-Kiev mercenaries attempting to advance near the city of Kremennaya in the Lugansk People's Republic (LPR) on Monday, said Vitaly Kiselev, an aide to the LPR interior minister. "Indeed, the Russian army dealt a crushing blow to mercenary forces attempting an incursion into our territories," he said in a broadcast of Russia's Channel One on Tuesday.

https://tass.com/defense/1527325

# Yars Missile System, Tula Submarine, 2 Tu-95MS Take Part in Russian Nuclear Forces Drills – Videos

#### Sputnik International, October 26, 2022

The Yars mobile ground-based missile system of the Russian Strategic Missile Forces, the Tula strategic missile submarine of the Northern Fleet, and two Tu-95MS long-range strategic missile carriers were involved in the training of Russia's strategic nuclear forces. "The training involved the Yars mobile ground missile system of the Strategic Missile Forces, the Tula strategic missile submarine of the Northern Fleet, and two Tu-95MS long-range strategic missile carriers," , Chief of the Russian Armed Forces General Staff Gen. of the Army Valery Gerasimov reported to Russian President Vladimir Putin on Wednesday.

https://sputniknews.com/20221026/yarsmissile-system-tula-submarine-2-tu-95ms-takepart-in-russian-nuclear-forces-drills – videos-1102723003.html

## Kiev Made Dummy Missile for Provocation With 'Dirty Bomb' Over Chernobyl Zone - Source

#### Sputnik International, October 26, 2022

The Kiev regime has already completed technical preparations for a provocation with a "dirty bomb," having prepared a dummy missile, which is planned to be filled with radioactive material, a source familiar with the situation told Sputnik. "Experts from the Yuzhmash plant have already made a dummy missile of the Iskander system, the head cluster part of which is planned to be filled with radioactive material, and then 'shot down' by Ukrainian air defense forces over the exclusion zone of the Chernobyl nuclear power plant in order to declare a Russian launch of a nuclear charge," the source said.

https://sputniknews.com/20221026/kiev-madedummy-missile-for-provocation-with-dirty-bombover-chernobyl-zone – source-1102733033.html

## Putin Oversees Training of Nuclear Deterrence Forces: Kremlin

## Kyiv Post, October 26, 2022

Russian President Vladimir Putin on Wednesday, Oct.26, oversaw the training of Moscow's strategic deterrence forces, troops responsible for responding to threats of nuclear war, the Kremlin said. "Under the leadership of... Vladimir Putin, a training session was held with ground, sea and air strategic deterrence forces, during which practical launches of ballistic and cruise missiles took place," the Kremlin said in a statement. State television showed Putin overseeing the drills from a control room.

https://www.kyivpost.com/russias-war/putinoversees-training-of-nuclear-deterrence-forceskremlin.html

## Will Putin Start a Nuclear War? – Interview With Ben Hodges

## Kyiv Post, October 26, 2022

Putin is unlikely to use nuclear weapons, and mobilization in Russia won't be a gamechanger, Retired U.S. General Ben Hodges has said in an interview with Tetiana Popova. He added that big changes are likely to take place in Russia soon, with the main one being regime change.

https://www.kyivpost.com/multimedia/video/ will-putin-start-a-nuclear-war-interview-withben-hodges

## Putin oversees military drills simulation 'massive' nuclear strike

The Times, October 26, 2022

President Putin observed Russian nuclear drills today that simulated a "massive" strike against the Kremlin's enemies amid spiralling tensions over the war in Ukraine. The drills, which were carried out in Russia's remote Kamchatka region, involved Yars intercontinental ballistic missiles, submarines and Tupolev strategic bomber planes, said Valery Gerasimov, Russia's leading general.

https://www.thetimes.co.uk/article/presidentbiden-warns-russia-against-nuclear-mistake-72nsr2ps3

## Putin Monitors Practice Launches by Russia's Nuclear Forces

## US News, October 26, 2022

Russian President Vladimir Putin on Wednesday monitored drills of the country's strategic nuclear forces involving multiple practice launches of ballistic and cruise missiles, in a show of force amid the heightened tensions with the West over the conflict in Ukraine. Defense Minister Sergei Shoigu reported to Putin that the exercise was intended to simulate a "massive nuclear strike" by Russia in retaliation for a nuclear attack on the country.

https://www.usnews.com/news/world/articles/ 2022-10-26/kremlin-putin-monitors-drills-ofrussias-nuclear-forces

## Putin watches dummy run for 'massive' nuclear strike on enemies

#### The Times, October 26, 2022

President Putin has used a video link to observe Russian nuclear drills in the

remote Kamchatka region that simulated a "massive" strike against his enemies. They involved Yars intercontinental ballistic missiles, submarines and Tupolev Tu-95 "Bear" strategic bombers, said Valery Gerasimov, Russia's top general, with all the missiles apparently hitting their targets. Sergei Shoigu, the defence minister, told Putin that the drills, codenamed Grom (Thunder), simulated "a massive nuclear strike by strategic offensive forces in response to an enemy nuclear strike". He warned earlier that the eight-month war in Ukraine was heading towards an "uncontrolled escalation". The United States said that Russia had notified it in advance about the annual exercises.

https://www.thetimes.co.uk/article/putin-watchesdummy-run-for-massive-nuclear-strike-onenemies-638t0r207

# Defence spending faces real-term cuts for years

#### The Telegraph, October 27, 2022

The defence budget faces real-term cuts until 2026, the Telegraph understands, although Treasury sources have insisted it will hit 3 per cent of GDP by the end of the decade. The target to increase defence spending to 3 per cent of GDP was made by Liz Truss. However, it had been assumed it would be dropped as Rishi Sunak looks to make savings in the upcoming fiscal statement. However, Treasury sources said that while only "small increases" to the budget could be expected until 2026, this would then accelerate to hit 3 per cent by 2030.

https://www.telegraph.co.uk/politics/2022/10/27/ defence-spending-faces-real-term-cuts-years/

# Russia Undertakes Nuclear Drills As Fighting Heavy Near Bakhmut

## Kyiv Post, October 27, 2022

Russia's strategic forces carried out drills Wednesday, including a test launch of a ballistic missile from a submarine, further stoking concerns that a nuclear weapon could be deployed in the Ukraine war. Russian President Vladimir Putin surveyed the drills carried out by his nuclear-capable forces as Moscow persisted in claiming, without offering evidence, that Kyiv was developing a "dirty bomb." On Monday the Russian foreign ministry posted photographs of ostensible nuclear materials on social media it said depicted "Ukraine's capacities to create the 'dirty bomb.'"

https://www.kyivpost.com/russias-war/russiaundertakes-nuclear-drills-as-fighting-heavynear-bakhmut.html

## Russian nuclear rhetoric rekindles German Cold War fears

## Reuters, October 27, 2022

Deep inside a decommissioned nuclear bunker built into a Cologne subway station at the height of the Cold War, tour guide Robert Schwienbacher says he is getting a number of inquiries from Germans asking for space available in an emergency.

https://www.reuters.com/world/europe/russiannuclear-rhetoric-rekindles-german-cold-warfears-2022-10-27/

## Russia says U.S. lowering 'nuclear threshold' with newer bombs in Europe

#### Reuters, October 29, 2022

Russia said on Saturday that the accelerated deployment of modernised U.S. B61 tactical nuclear weapons at NATO bases in Europe would lower the "nuclear threshold" and that Russia would take the move into account in its military planning. Russia has about 2,000 working tactical nuclear weapons while the United States has around 200 such weapons, half of which are at bases in Italy, Germany, Turkey, Belgium and the Netherlands.

https://www.reuters.com/world/europe/russiasays-us-lowers-nuclear-threshold-by-deployingnew-nuclear-bombs-europe-2022-10-29/

## Russia Withdraws From Grain Deal After Drone Attack on Black Sea Fleet

### The New York Times, October 29, 2022

Hours after accusing Ukraine of attacking its ships with a swarm of drones, Russia withdrew on Saturday from an agreement aimed at bringing down global food prices by allowing the export of grain from Ukrainian ports. The Russian decision, which United Nations and Ukrainian officials said could exacerbate hunger, brought to a screeching halt a rare case of wartime coordination that had allowed the movement of more than 9 million tons of agricultural products, many of them bound for poor countries.

https://www.nytimes.com/2022/10/29/world/ europe/ukraine-russia-graindeal.html?searchResultPosition=8

## C. China

# Russian nuclear fears loom in the geopolitical background for China.

#### The New York Times, October 16, 2022

President Biden and other American officials have invoked fears that the risk of nuclear "Armageddon" is at its highest since the Cuban Missile Crisis. Russian officials have warned of "Cuban Missile Crisis 2.0," blaming the West for the escalation. It is a big part of the geopolitical backdrop to China's Communist Party Congress, which coincidentally opens 60 years to the day since the start of the Cuban Missile Crisis. Back then, China was an impoverished, isolated country, ruled by Mao Zedong whose revolutionary zeal appealed to leaders in countries emerging from colonial rule. Mao had fallen out with the leader of the Soviet Union, Nikita Khrushchev, over ideology in the late 1950s.

https://www.nytimes.com/2022/10/16/world/asia/ russian-nuclear-fears-loom-in-the-geopoliticalbackground-for-china.html

## Insistence on staging 'Steadfast Noon' nuclear drill threateningly

# rash of NATO: China Daily editorial

## China Daily, October 16, 2022

Citing the "severe security situation" in Ukraine, the Chinese Foreign Ministry and Embassy in Ukraine on Saturday called on Chinese nationals who are still there to evacuate. The tensions and fears are real. Security conditions in Ukraine today are far worse than at any time since the crisis began, especially amid the growing rhetoric on the use of nuclear weapons. As a member of the UN Security Council with friendly relations with both Russia and Ukraine, China is striving to persuade all stakeholders to guard against any words or deeds that might lead to a miscalculation of truly epic proportions. In the meantime, considering the substantially escalated Russian attacks on Ukraine targets since the explosion on the Kerch Strait Bridge, there is a pressing need to provide the best possible protection for Chinese nationals remaining in Ukraine.

https://global.chinadaily.com.cn/a/202210/16/ WS634bfd2ca310fd2b29e7ccca.html

# Xi stresses further modernizing national defence, military

#### China Military Online, October 16, 2022

Xi Jinping said that achieving the goals for the centenary of the People's Liberation Army in 2027 and more quickly elevating the people's armed forces to world-class standards are strategic tasks for building a modern socialist country in all respects. "We will strengthen Party building across the board in the people's armed forces to ensure that they always obey the Party's command," said Xi at the opening session of the 20th National Congress of the Communist Party of China (CPC). The Party will improve the institutions and mechanisms for implementing the system of ultimate responsibility resting with the chairman of the Central Military Commission, he said.

http://eng.chinamil.com.cn/view/2022-10/16/ content\_10192779.htm

## U.S. nuclear tests hang over Marshall Islands treaty talks

### Nikkei Asia, October 17, 2022

The dozens of U.S. nuclear tests conducted in the Marshall Islands in the 1940s and 1950s continue to hang over a key treaty that is due to be renegotiated later this year. In 1986, the U.S. struck an agreement known as the Compact of Free Association with the Pacific island group, which is strategically located roughly halfway between Australia and Hawaii. The main points of the COFA are immigration privileges for Marshallese in the U.S., direct economic assistance, and exclusive American defense and security access to the islands and their territorial waters. Some 67 nuclear warheads were detonated on the Marshall Island atolls of Bikini and Enewetak between 1946 and 1958. This historical hangover - and questions over compensation for the damage – as well as the more contemporary issues of climate change and poverty, are key issues for the islands in the new COFA.

https://asia.nikkei.com/Politics/Internationalrelations/U.S.-nuclear-tests-hang-over-Marshall-Islands-treaty-talks

# American technology boosts China's hypersonic missile program

### The Washington Post, October 17, 2022

Military research groups at the leading edge of China's hypersonics and missile programs - many on a U.S. export blacklist - are purchasing a range of specialized American technology, including products developed by firms that have received millions of dollars in grants and contracts from the Pentagon, a Washington Post investigation has found. The advanced software products are acquired by these military organizations through private Chinese firms that sell them on despite U.S. export controls designed to prevent sales or resales to foreign entities deemed a threat to U.S. national security, the investigation shows. Scientists who work in the sprawling network of Chinese military research academies and the companies that aid them said in interviews that American technology – such as highly specialized aeronautical engineering software – fills critical gaps in domestic technology and is key to advances in Chinese weaponry.

https://www.washingtonpost.com/nationalsecurity/2022/10/17/china-hypersonic-missilesamerican-technology/

# Pyongyang's 7th nuclear test to strain China-North Korea ties

#### Kang Hyun-kyung

The Korea Times, October 18, 2022

Chinese leader Xi Jinping emphasized the continuity of China's assertive foreign policy in a televised speech during the Chinese Communist Party's week-long Congress, which opened in the Great Hall of the People in Beijing. Xi said China has taken a clear-cut stance against a U.S.-led hegemony and power politics and is opposed to unilateralism and bullying. His remarks hint at the lingering confrontation between U.S.- led democracies and autocracies represented by China, Russia and North Korea, which has been evident particularly after the Russian invasion of Ukraine, in Xi's third term as leader.

https://www.koreatimes.co.kr/www/nation/ 2022/10/120\_338075.html

# Scientists at top US nuclear lab poached by China to develop hypersonic missiles technology

## Nick Allen

#### The Telegraph, October 18, 2022

Scores of Chinese scientists who worked at one of America's most advanced weapons labs have been recruited by Beijing to help develop hypersonic technology, deep-penetrating warheads, drones, stealth camouflage and quiet submarines. Some 162 Chinese scientists at Los Alamos National Laboratory, the US birthplace of the atomic bomb, went back to China as late as last year to work on futuristic programmes with potential military applications, according to a new report. Republicans demanded an end to the "espionage" as party members called on the Biden administration to launch an investigation into Beijing's "malign" efforts.

https://www.telegraph.co.uk/world-news/2022/10/ 18/scientists-americas-top-nuclear-lab-poachedchina-develop-hypersonic/

# Reverse brain drain? Nasa data scientist takes job in China

#### Stephen Chen

#### South China Morning Post, October 18, 2022

A senior data scientist who worked for Nasa for more than 20 years has found a job at a top university in Shanghai, according to the university's website. Li Zhijin is an expert on marine data analysis and has developed data processing tools for Nasa, the US Navy and other US government agencies. Li is now a distinguished professor and PhD mentor with the department of atmospheric and oceanic sciences at Fudan University, according to the university's website. Li's return to China has prompted discussion on social media as an example of "reverse brain drain" driven by increased hostility against scientists of Chinese origin in the United States. In recent years, the US federal government has launched a number of investigations into researchers with connections to China.

https://www.scmp.com/news/china/science/article/ 3196372/reverse-brain-drain-nasa-data-scientisttakes-job-china

# China's nuclear strategy will not change: envoy

#### Xinhuanet, October 19, 2022

China's nuclear strategy and policy have been long-standing and consistent with a high level of stability, continuity and predictability, Chinese Ambassador for Disarmament Affairs Li Song said. This is unique among nuclear weapon states as they are the most responsible and transparent, Li said. China has constantly advocated complete prohibition and thorough destruction of nuclear weapons, Li told a thematic discussion on nuclear weapons of the First Committee of the UN General Assembly. China has solemnly committed to no first use of nuclear weapons at any time and under any circumstances, and not using or threatening to use nuclear weapons against non-nuclear-weapon states or nuclear-weapon-free zones unconditionally, he said.

https://english.news.cn/20221019/ f46d234801aa4415a882eab2924d6187/c.html

## The New Nuclear Era

## Richard Haass

# *Council on Foreign Relations, October 19, 2022*

The US should also maintain its close alliance with both South Korea and Japan vis-al-vis not just North Korea, but also China. Failure to do so would most likely lead both countries to reconsider their renunciation of nuclear weapons. At the same time, and certainly before early 2026, when the New START Treaty limiting the two great nuclear powers' arsenals expires, the US should signal to Russia its readiness to discuss the next phase of nuclear arms control. The number and types of weapons systems to be limited needs to be on the agenda, as does the inclusion of China.

https://www.cfr.org/article/new-nuclear-era

## Amb. Li Song's speech at UNGA Thematic Discussion on Nuclear Weapons

#### China Military Online, October 19, 2022

Mr. Chair, China has constantly advocated for the complete prohibition and thorough destruction of nuclear weapons and the ultimate realization of a world without nuclear weapons. The indefinite extension of the Treaty on Non-Proliferation of Nuclear Weapons (NPT) does not mean that the nuclear weapon states could possess nuclear weapons indefinitely. China is committed to the path of peaceful development. On 16th October, General Secretary Xi Jinping clearly pointed out in the report to the 20th National Congress of the Communist Party of China that China firmly pursues an independent foreign policy of peace, always decides its own position and policy

according to the merits of the matter itself, upholds basic norms governing international relations, safeguards international equity and justice, resolutely opposes all forms of hegemonism and power politics, and opposes the Cold War mentality, interference in other countries' internal affairs, and double standards. China will never seek hegemony or expansion.

http://eng.chinamil.com.cn/view/2022-10/19/ content\_10193473.htm

# Chinese physicists simulate nuclear blast against satellites

#### Stephen Chen

#### South China Morning Post, October 20, 2022

A nuclear blast in near space could create a radioactive cloud over an area as big as New York state, crippling or destroying satellites in near-Earth orbit, according to a new computer simulation conducted by a team of Chinese military scientists. At the Northwest Institute of Nuclear Technology, a research institute run by the People's Liberation Army in Xian, researchers developed a model that can evaluate the performance of nuclear anti-satellite weapons at different altitudes and yields with unprecedented detail and accuracy. The simulation results suggest that a 10megaton warhead - modestly powerful by today's standards - could create a serious threat to satellites if it detonates at an altitude of 80km (50 miles).

https://www.scmp.com/news/china/science/article/ 3196629/chinese-physicists-simulate-nuclearblast-against-satellites

## China underlines 'no first use' nuclear weapons policy as it seeks stronger power to deter

#### Kawala Xie

#### South China Morning Post, October 20, 2022

China has reaffirmed its "no first use" nuclear weapons policy at the United Nations, even as signs of a build-up emerge from the top leadership's report to the ongoing 20th Communist Party congress in Beijing. Addressing a UN General Assembly First Committee session on nonproliferation, the Chinese ambassador for disarmament affairs, Li Song, underlined his country's "solemn" commitment to no pre-emptive use of nuclear weapons "at any time and under any circumstances". "China has solemnly committed to no first use of nuclear weapons at any time and under any circumstances, and not using or threatening to use nuclear weapons against non-nuclear-weapon states or nuclear-weapon-free zones unconditionally," Li told UN delegates.

https://www.scmp.com/news/china/military/ article/3196530/china-underlines-no-first-usenuclear-weapons-policy-it-seeks-stronger-powerdeter

## Drones to become 'loyal wingmen' for China's advanced J-20 stealth fighter jets, state media reports

#### Minnie Chan

South China Morning Post, October 20, 2022

China has started researching ways to turn the country's advanced military drones into "loyal wingmen" for the country's most powerful fifth-generation stealth fighter jet, the J-20, state media reported. Using unmanned aerial vehicles (UAVs) alongside piloted planes is a concept outlined by the United States in its Next Generation Air Dominance (NGAD) initiative. China has tried to adopt the concept for its joint combat operations. In a computer-generated graphic, CCTV showed a twin-seat J-20 commanding several stealth attack drones resembling the GJ-11 Sharp Sword drone. It is the first time state media has confirmed why the Chengdu Aircraft Industry Group developed a twin-seat version of the J-20 - to accommodate a "weapons officer".

https://www.scmp.com/news/china/military/ article/3196513/drones-become-loyal-wingmenchinas-advanced-j-20-stealth-fighter-jets-statemedia-reports

# China may ramp up nuclear arsenal after Xi's assertion to establish strong strategic deterrence: Experts

#### The Indian Express, October 22, 2022

China is expected to boost its nuclear arsenal after President Xi Jinping's remarks at the key Congress of the ruling Communist Party for the first time that Beijing will establish strong strategic deterrence, experts have said. "We will establish a strong system of strategic deterrence," Xi, who is widely expected to be endorsed for a record third five-year term by the Congress of the CPC, told its opening session on October 16. In the 63-page report, Xi, who also heads the Central Military Commission (CMC) - the overall high command of the two millionstrong People's Liberation Army (PLA) devoted a special section to the military titled Achieving the Central Goal of the PLA and Further Modernising National Defence and Military.

https://indianexpress.com/article/world/chinaramp-nuclear-arsenal-xis-assertion-establishstrong-strategic-deterrence-experts-8224361/

# Chinese experts warn of threats from US B-21, B-52 bombers

#### Global Times, October 24, 2022

The US made high-profile announcements on two of its strategic bombers, the fully upgraded B-52 and the brand new B-21, with Chinese experts saying that the duo are likely to become the US Air Force's core strategic strike force in the next few decades, and China should be prepared to counter the planes and also learn from them. Northrop Grumman, the company that builds the B-21, announced that the aircraft will be revealed to the public for the first time on December 2. This will be the first public unveiling of a new Air Force bomber in 34 years, since the B-2 bomber's debut in November 1988, US media outlet Defense News reported. After the rollout, the B-21 will conduct its first flight in 2023, the report said.

https://www.globaltimes.cn/page/202210/ 1277843.shtml

# Worrying revival of interest in nuclear weapons in China and South Korea

#### Nicola Leveringhaus

# South China Morning Post, October 24, 2022

In the 1980s and 1990s, the region was on a restrained nuclear path. Back then, China actively practised the nuclear minimalism it preached, joining deals such as the Nuclear Non-Proliferation Treaty and Comprehensive Test Ban Treaty. US president George H.W. Bush even opted to remove US nuclear weapons from allied Asian soil, including South Korea. In the case of China, the discovery of new missile silo bases last year, the mass development of dual-use missiles (for nuclear or conventional strikes) such as the DF-26, coupled with hypersonic capabilities and nuclear-armed submarines showcase an unprecedented level of military options for decision-makers in Zhongnanhai. The virtues of minimalism and nuclear restraint seem to be fading fast for China's strategic community and Communist Party elites.

https://www.scmp.com/comment/opinion/ article/3196782/worrying-revival-interestnuclear-weapons-china-and-south-korea

## First four-engine large drone developed by China makes maiden flight, to debut in Airshow

#### Liu Xuanzun and Fan Wei

#### Global Times, October 26, 2022

The Twin-Tailed Scorpion D, a four-engine large drone independently developed by China, made its maiden flight and will make its public debut at the upcoming Airshow China 2022, the aircraft's developer announced. Capable of carrying heavier and larger payloads, the new drone has enhanced transport capability compared with its predecessors in the Twin-Tailed Scorpion series, analysts said. Independently developed by Sichuan Tengden Sci-Tech Innovation Co, the Twin-Tailed Scorpion D successfully completed its first flight at an airport in Zigong, Southwest China's Sichuan Province, according to a press release the company sent to the Global Times. This multipurpose, medium-altitude, longendurance unmanned aerial vehicle system with fixed wings and four engines is the first of its kind in the world, Tengden said.

https://www.globaltimes.cn/page/202210/ 1278029.shtml

Russia informs China of concerns over 'dirty bomb' in Ukraine; Moscow 'might turn operation into war on terror' if nukes are used against Russians

#### Yang Sheng

#### Global Times, October 27, 2022

Chinese State Councilor and Defense Minister Wei Fenghe held a video conversation with Russian Defense Minister Sergei Shoigu, in which both sides exchanged views on "international and regional issues of shared concern," as the Russian defense chief also called his counterparts of other major powers to tell them about his concerns over the use of "dirty bombs" in Ukraine. Tan Kefei, spokesperson of the Ministry of National Defense, confirmed the conversation at a routine monthly press conference, but without giving further details about the recent discussion between the Chinese and Russian defense chiefs. According to TASS, both sides discussed the situation in Ukraine, said a statement released by the Russian Defense Ministry. Shoigu conveyed Russia's concerns to Wei about Ukraine possibly using a "dirty bomb" in a false flag operation," the statement reads.

https://www.globaltimes.cn/page/202210/ 1278180.shtml

## U.S. Unveils Strategy for Nuclear Threats from China and Russia

## W.J. Hennigan

#### TIME, October 27, 2022

The Biden Administration unveiled a new defence strategy that puts the U.S. military

on a Cold War-footing with China and Russia, detailing a plan to confront two nuclear peer adversaries for the first time in history with a multi-year build-up of modernized weaponry, enhanced foreign alliances and a top-to bottom overhaul of the American nuclear arsenal. The 80page document serves as the Administration's roadmap for global security for the decades to come, and makes clear the U.S. faces two powerful but very different competitors. It characterizes China as a long-term "pacing challenge" with its growing power projection in the Pacific region, while deeming Russia to be an immediate "acute threat" amid its ongoing war with Ukraine and continual threats to launch a nuclear strike.

https://time.com/6225745/biden-nucleardefense-strategy-china-russia/

## China can use its leverage with Russia to prevent a nuclear war

## Zhou Bo

#### Financial Times, October 27, 2022

Will Putin use nuclear weapons in Ukraine? This billion-dollar question matters not only to Kyiv and Europe, but also to China. So far Beijing has trodden a careful line between Russia, its strategic partner, and Ukraine, which is a significant trading partner. During September's Samarkand summit, Vladimir Putin thanked China for its "balanced position" on the Ukraine conflict. But if Moscow decides to use tactical nuclear weapons against Ukraine, China can hardly maintain such a position any more. A joint declaration between Beijing and Kyiv in December 2013 agreed that China will not use or threaten to use nuclear weapons against Ukraine and, more importantly, will provide security assurances in the event of any such threat by a third party.

https://www.ft.com/content/f05fef3f-a8be-4007a161-34764419847f

## U.S. nuclear review warns of Chinese 'coercion' in Indo-Pacific

Yukihiro Sakaguchi and Ryo Nakamura

Nikkei Asia, October 28, 2022

The Biden administration released its Nuclear Posture Review, outlining a U.S. strategy that emphasizes deterrence in the Indo-Pacific while facing China's increasingly large and sophisticated arsenal. The 25- page document, released alongside the National Defense Strategy and the Missile Defense Review, calls for multilateral dialogue with Japan, South Korea and Australia on strengthening extended deterrence, or signaling Washington's willingness to use nuclear weapons in order to discourage adversaries from conducting nuclear attacks on allies. "By the 2030s the United States will, for the first time in its history, face two major nuclear powers as strategic competitors and potential adversaries," the document says, referring to Russia and China.

https://asia.nikkei.com/Politics/Internationalrelations/Indo-Pacific/U.S.-nuclear-review-warnsof-Chinese-coercion-in-Indo-Pacific2

## China warns US nuclear policy will fuel arms race and threaten peace

### Liu Zhen

## South China Morning Post, October 28, 2022

The United States' nuclear arms policy would fuel a nuclear arms race and jeopardise peace and stability, China's foreign ministry warned. Ministry spokesman Wang Wenbin said that through its Nuclear Posture Review (NPR), the US was aiming to use nuclear weapons "as an instrument to promote geopolitical goals and going totally against the international expectation of preventing nuclear war and avoiding a nuclear arms race". "The US policy reflects their hegemonic logic of seeking absolute military superiority, which will stimulate a nuclear arms race," Wang said. "By strengthening the role of nuclear weapons in its national security policy and lowering the threshold for their use, the US has increasingly become a source of risk of nuclear conflict."

https://www.scmp.com/news/china/military/ article/3197671/china-warns-us-nuclear-policywill-fuel-arms-race-and-threaten-peace

## China Expanding Nuclear Arsenal to Threaten US: New Defense Strategy

#### Andrew Thornebrooke

The Epoch Times, October 28, 2022

Communist China is developing its nuclear forces to threaten the United States and shield its authoritarian ambitions, according to the Biden administration's newly published National Defense Strategy. The new National Defense Strategy released on October 27, highlights China's communist regime as "the most comprehensive and serious challenge to U.S. national security," and directs political and military leaders to "act urgently to sustain and strengthen U.S. deterrence" against the regime. Of particular note is the document's advisory that China is developing new nuclear weapons in order to threaten the United States, possibly by preparing for a nuclear first strike. "The PRC is increasing its capability to threaten the United States and our Allies and partners with nuclear weapons," the strategy said, using an acronym for the official name of communist China, the People's Republic of China.

https://www.theepochtimes.com/china-expanding-nuclear-arsenal-to-threaten-us-new-defensestrategy\_4827176.html

## Chinese disarmament ambassador blasts US Nuclear Posture Review

### China Daily, October 29, 2022

Chinese Ambassador for Disarmament Affairs Li Song blasted the newly released Nuclear Posture Review (NPR) of the United States. In his remarks at a plenary meeting of the First Committee of the UN General Assembly, Li said the NPR reveals how the United States, with its nuclear weapons in hand, observes the world and deals with other countries. "This document hypes up major-power competition and bloc confrontation, which reflects the logic of hegemonism seeking absolute military superiority. This is clearly against the world's desire to prevent nuclear war and avoid a nuclear arms race," he said. The latest US nuclear strategy, together with its related policies and plans, will definitely have a complex, far-reaching and seriously negative impact on global strategic security and stability, the strategic security relationship among major powers, as well as on the international and multilateral nuclear arms control, disarmament and non-proliferation processes, he warned. In this NPR, the United States has made irresponsible remarks and accusations as well as groundless speculation on China's normal modernization of its nuclear forces. It has brazenly "tailored" a nuclear deterrence strategy against China. China is seriously concerned about and firmly opposes such a move, said Li.

https://global.chinadaily.com.cn/a/202210/29/ WS635cdd8aa310fd2b29e7f3ce.html

# Upgrades for China's nuclear triad as Xi Jinping pushes for stronger strategic deterrence: analysts

## Minnie Chan

## South China Morning Post, October 29, 2022

China is expected to upgrade its air, ground and sea-based nuclear delivery systems - or nuclear triad - following President Xi Jinping's call for a "strong system of strategic deterrence". Xi made the call in his work report to the 20th Communist Party congress earlier this month in comments laying out the country's development path for the next five years and beyond. Deterrence is the ability to wield military power to dissuade adversaries from launching an attack. Defence analysts said the Ukraine war and an increasingly uncertain global order had reminded Beijing that conventional weapons were not enough for real "strategic deterrence".

https://www.scmp.com/news/china/military/

article/3197705/upgrades-chinas-nuclear-triadxi-jinping-pushes-stronger-strategic-deterrenceanalysts

## US Air Force to deploy nuclearcapable B-52 bombers to Australia as tensions with China grow

### ABC News, October 30, 2022

The United States is preparing to deploy up to six nuclear-capable B-52 bombers to northern Australia, a provocative move experts say is aimed squarely at China. The US has drawn up detailed plans for what it calls a "squadron operations facility" for use during the Northern Territory dry season, an adjoining maintenance centre and a parking area for "six B-52s". Becca Wasser from the Centre for New American Security says putting B-52s in northern Australia is a warning to China, as fears grow Beijing is preparing for an assault on Taiwan. The bombers are part of a much larger upgrade of defence assets across northern Australia, including a major expansion of the Pine Gap intelligence base, which would play a vital role in any conflict with Beijing.

https://www.abc.net.au/news/2022-10-31/ china-tensions-taiwan-us-military-deploybombers-to-australia/101585380

# China slams planned US Air Force deployment of six B-52 bombers to northern Australia

### ABC News, October 31, 2022

China has responded to reports the United States is preparing to deploy nuclearcapable B-52 bombers to northern Australia, saying the move could trigger an arms race. Chinese Ministry of Foreign Affairs spokesman Zhao Lijian slammed the planned deployment and said the move would increase regional tensions. "Defence and security cooperation between any countries should be conducive to regional peace and stability and not target or harm the interests of third parties," Mr Zhao said. He said the US had "increased regional tensions, seriously undermined regional peace and stability, and may trigger a regional arms race".

https://www.abc.net.au/news/2022-10-31/chinaslames-planned-deployments-of-b52-bombers-toaustralia/101598442

# China launches 2nd space station lab module Mengtian, a step forward toward completing space station assembly

## Global Times, October 31, 2022

China launched Mengtian lab module - the third and final part of its three-module home-developed space station - into preset orbit, from South China's tropical island province of Hainan, kicking start the final battle of completing the country's T-shape and first-ever permanent space station. Mengtian, also the second lab module, will be the last piece before China completes the space station assembly.

https://www.globaltimes.cn/page/202210/ 1278359.shtml

## D. Pakistan

# Pakistan's nuclear assets in safe hands: Ahsan

#### Radio Pakistan, October 16, 2022

Minister for Planning and Development Ahsan Iqbal said as a sovereign state, Pakistan reserves the right to carry out peaceful nuclear program for its deterrence.

Talking to media in Shakargarh on Sunday, he said that Pakistan's atomic assets are in safe hands. He said Prime Minister Muhammad Shehbaz Sharif and Foreign Ministry have categorically rejected the recent statement of the US President Joe Biden about Pakistan's nuclear programme. Talking about the political situation, he said general elections will be held in October next year.

https://www.radio.gov.pk/16-10-2022/pakistansatomic-assets-are-in-safe-hand-ahsan

# US says 'confident' Pakistan can secure nukes after Biden's 'dangerous nation' remark causes uproar

## India Today, October 18, 2022

The United States said Monday that it had confidence in Pakistan's ability to control its nuclear arsenal after President Joe Biden expressed alarm, leading Islamabad to summon the US ambassador. "The United States is confident of Pakistan's commitment and its ability to secure its nuclear assets," State Department spokesman Vedant Patel told reporters. "The US has always viewed a secure and prosperous Pakistan as critical to US interests and, more broadly, the US values our long-standing cooperation with Pakistan," he said. Biden made the off-thecuff remarks on Pakistan's nuclear program Thursday while at a private Democratic Party fundraiser in California where he began to discuss challenges facing President Xi Jinping of China, a close ally of Pakistan.

https://www.indiatoday.in/world/story/us-saysconfident-pakistan-can-secure-nukes-after-joebiden-dangerous-nation-remark-2286561-2022-10-17

## Pakistan Army reposes full confidence in its 'robust' nuclear arsenal

#### The Telegraph, October 18, 2022

The top brass of the Pakistan Army has reposed full confidence in the country's 'robust' nuclear command, noting that requisite measures were implemented to safeguard the country's strategic assets, the military's media wing said on Tuesday. Last week, US President Joe Biden raised doubts over Pakistan's nuclear arsenal, calling it one of the most dangerous nations in the world as it has nuclear weapons without cohesion. The US president's remarks were made in the context of the changing geopolitical situation globally. (The) forum reposed full confidence in Pakistan's robust nuclear command and control structure and security arrangements related to (the) country's strategic assets, the army's media wing said in a statement after the 252nd Corps Commanders' Conference.

https://www.telegraphindia.com/world/pakistanarmy-reposes-full-confidence-in-its-robustnuclear-arsenal/cid/1892819

# CENTCOM commander visits Navy nuclear submarine in Arabian Sea amid tensions with Pakistan and Iran

#### Fox News, October 19, 2022

The of the Defense commander Department's Central Command (CENTCOM) visited a nuclear submarine in international waters Wednesday in a possible move designed to send a message to adversaries in the region. Gen. Michael "Erik" Kurilla embarked aboard the USS West Virginia, a U.S. Navy Ohio-class nuclear-powered ballistic missile submarine, somewhere in the Arabian Sea, a news release said. During the visit, he received a demonstration of the vessel's capabilities, which operates globally under the U.S. Strategic Command (USSTRATCOM).

https://www.foxnews.com/us/centcom-commander-visits-navy-nuclear-submarine-arabiansea-amid-tensions-pakistan-iran

# Major world global powers anxious about Pakistan's nukes

#### The Print, October 21, 2022

At a time when US President Joe Biden's words put the spotlight on Pakistan as "the most dangerous nation in the world", Pakistan's nuclear capabilities are also occupying a position of significance and creating anxieties for various major global powers. US President Biden at a Democratic Congressional Campaign Committee Reception in Los Angeles (California), during which he berated both China and Russia said, "This is a guy (Xi Jinping) who understands what he wants but has an enormous, enormous array of problems. How do we handle that? How do we handle that relative to what's going on in Russia? And what I think is maybe one of the most dangerous nations in the world: Pakistan. Nuclear weapons without any cohesion."

https://theprint.in/world/major-world-globalpowers-anxious-about-pakistans-nukes/ 1176886/

# Azerbaijan, Pakistan ink MoU on cooperation in space sector

#### Azer News, October 24, 2022

Azerbaijan's satellite operator Azercosmos and Pakistan's Space and Upper Atmosphere Research Commission (SUPARCO) have signed a memorandum of understanding on cooperation in the space sector, Azernews reports. The memorandum provides for cooperation in various directions in this sector. This includes joint actions in space science, technologies, solutions, capacity building, and exchange of experience. Azercosmos's Board Chairman Samaddin Asadov noted that the memorandum is important in terms of improving space services, and further expanding the space program, including the development of spatial information between the two countries.

#### https://www.azernews.az/business/201291.html

# How safe are Pakistan's nuclear arsenal?

#### The Economic Times, October 26, 2022

Pakistan's nuclear use policy is unlike its nuclear armed neighbours India and China. Pakistan has not committed to a "No-First Use" policy. India and China have both made unambiguous pledges of never being the first country to resort to using Nuclear weapons. Pakistan on the other hand is one of the few nations in the world who have even publicly stated that they would use any weapon in their arsenal to repulse any attack on them. This asymmetric nuclear posture by Pakistan is meant to keep the World anxious about Pakistan's intensions and with destabilising forces swelling in its country...the safety of Pakistan's nuclear arsenal remains a global fear.

https://economictimes.indiatimes.com/news/ international/world-news/how-safe-are-pakistansnuclear-arsenal/videoshow/ 95100536.cms?from=mdr

# Pakistan's space program focuses sustainable socio-economic progress: Naeem

#### Radio Pakistan, October 26, 2022

Counselor, Pakistan Permanent Mission to United Nations, Naeem sabir Khan says Pakistan believes that space should be used for peaceful purposes and should remain accessible to all nations on a nondiscriminatory basis, irrespective of their level of scientific, technical, or economic development. In his statement at the Fourth Committee during 77th UN General Assembly Session on "International Cooperation in the Peaceful Uses of Outer Space," he said Pakistan has been a member of the Committee on the Peaceful Uses of Outer Space (COPUOS) since 1973 and has contributed actively toward its valuable work. He said we have ratified all five United Nations space treaties governing peaceful uses and the long-term sustainability of outer space.

https://www.radio.gov.pk/26-10-2022/nationalspace-program-focuses-sustainable-socio-economic-progress-naeem

## Pakistan Envoy Warns Nuclear Risk Looms in Kashmir 75 Years After India War

#### Newsweek, October 27, 2022

With tensions high across the disputed region of Kashmir, Pakistan's ambassador to the United States has warned of a serious threat of escalation 75 years after his nation's first war with India, and this includes the looming possibility that the two rivals could turn to their strategic arsenals should a fight erupt. "That risk is always there," Ambassador Masood Khan told *Newsweek*. "Pakistan and India are nuclear weapons states and the situation in the Indian Occupied Jammu and Kashmir is very, very turbulent."

https://www.newsweek.com/pakistan-envoywarns-nuclear-risk-looms-kashmir-75-yearsafter-india-war-1755249

## E. Europe

# EU Greenlights Training Mission for Ukraine Troops, New Military Aid Package

## Sputnik International, October 17, 2022

Even though EU member states have repeatedly claimed that they have no intention to send troops to Ukraine, thus becoming a party to the conflict, they have been sending military instructors and pumping the Eastern European country with billions in weapons. European Union Foreign Ministers have given the green light at their meeting in Luxembourg to a mission to train around 15,000 Ukrainian troops. Besides signing off on establishing the Military Assistance Mission for Ukraine, they also approved a further •500 million (\$486Mln) in European Peace Facility funding for Ukraine. The off-budget fund reimburses EU member states for arms delivered to Ukraine.

https://sputniknews.com/20221017/eugreenlights-training-mission-for-ukraine-troopsnew-military-aid-package-1101925793.html

## Europe Should Sanction Russia's Nuclear Industry – Now

#### The Moscow Times, October 22, 2022

The Russian nuclear industry has once again managed to avoid inclusion in the latest round of EU sanctions – the eighth in a row to skirt this vital issue in an apparent acknowledgment that Europe's dependence on Russian nuclear fuel cannot easily be reversed. Since the start of the war in February, the media has been so focused on Russian fossil fuels, particularly natural gas, that it has avoided any discussion of Europe's nuclear dependence on Russia completely. However, the topic can no longer be safely ignored.

https://www.themoscowtimes.com/2022/10/22/ europe-should-sanction-russias-nuclear-industrynow-a79089

# **EU Examines Classifying Iran Revolutionary Guards as Terrorists** - Germany

US News, October 30, 2022

Germany and the European Union are examining whether to classify Iran's Revolutionary Guards as a terrorist organisation, Foreign Minister Annalena Baerbock said on Sunday. "I made it clear last week that we will launch another package of sanctions, that we will examine how we can also list the Revolutionary Guards as a terrorist organisation," Baerbock said in a interview with ARD broadcaster on Sunday.

https://www.usnews.com/news/world/articles/ 2022-10-30/eu-examines-classifying-iran-revolutionary-guards-as-terrorists-germany

## F. France

# France's Le Pen Blasts EU's Borrell Over Threat to 'Annihilate' Russian Army

## Sputnik International, October 16, 2022

In a speech on Thursday in which he compared the European Union to a paradise-like "garden" flanked by "jungles," the EU high representative for foreign and security policy warned that Russia's military would be destroyed if Moscow were to use nuclear weapons in Ukraine. France would probably be at war with Russia if Josep Borrell was in charge of the nation's foreign and security policy, National Rally Marine Le Pen has said.

https://sputniknews.com/20221016/frances-lepen-blasts-eus-borrell-over-threat-to-annihilaterussian-army-1101903211.html

# Sergey Shoigu has held phone talks with French Minister of the Armed Forces

## *TASS, October* 23, 2022

Russian Defense Minister Sergey Shoigu has held phone talks with French Minister of the Armed Forces Sebastien Lecornu to discuss the situation in Ukraine and told him Ukraine could stage a provocation using a dirty bomb, the Russian Defense Ministry told reporters on Sunday. "Phone talks between Russian Defense Minister Army General S. K. Shoigu and French Defense Minister S. Lecornu were held on October 23. A discussion was held about the situation in Ukraine, which has a trend toward steady а further uncontrolled escalation," the ministry said.

https://tass.com/defense/1526275

## G. Ukraine

# Activist says Ukraine plans attack on ZNPP from several sides

## TASS, October 16, 2022

Vladimir Rogov, chairman of the We Are Together with Russia civil society group, on Sunday said Ukrainian troops are preparing a new attempt to capture the Zaporozhye NPP by assaulting it from several sides. "The threat is real because we see that at least 450 militants of the Special Operations Forces of the armed forces of Ukraine are engaged in training to cross the Dnieper," he told TASS. "The change of tactics for the capture of the nuclear power plant, for crossing the Dnieper, is that now, in addition to one area, Zaporozhye, or the east and northeast, assault groups are massing up, shaping up and preparing for the capture in the areas that are to the west, northwest and southwest of Energodar".

https://tass.com/defense/1523495

# Generators briefly switch back on at the Zaporizhzhia nuclear plant after a strike knocks out external power again.

#### The New York Times, October 17, 2022

The embattled Zaporizhzhia Nuclear Power Plant briefly ran on backup diesel generators again on Monday after a Russian strike hit an electrical substation that supplies power to the facility in southern Ukraine, officials said. As Russia unleashed another flurry of strikes at Ukraine's energy infrastructure, a blast disconnected the nuclear plant from the national grid, the Ukrainian nuclear energy company, Energoatom, said in a statement. The plant, which is occupied by Russian forces but operated by Ukrainian engineers, relies on external power to operate essential safety equipment.

https://www.nytimes.com/2022/10/17/world/ europe/russia-drone-strike-zaporizhzhia-nuclearplant.html?searchResultPosition=7

## Official says Ukraine lost 320 tanks, 9,800 troops in Kherson Region over past six weeks

#### TASS, October 17, 2022

Kirill Stremousov, deputy acting governor of the Kherson Region, on Monday said Ukrainian armed forces have lost 9,800 troops and 1,590 pieces of equipment including 320 tanks in the Kherson Region over the past six weeks.

https://tass.com/defense/1523785

# Activist says Ukraine increased number of drones used in Zaporozhye Region

## TASS, October 18, 2022

Vladimir Rogov, chairman of the We Are Together with Russia civil society group, on Tuesday said Ukraine is using more drones than ever over the engagement line in the Zaporozhye Region. "Whole armadas of drones with suspension items. They are sent in larger numbers than ever before," he told TASS. "They have dozens of new drones." Rogov said there are drones of the intelligence gathering type but most of them have suspended improvised explosive devices.

#### https://tass.com/defense/1524355

# Ukrainian armed forces pull all reserves to frontline — Surovikin

## TASS, October 19, 2022

The Ukrainian Armed Forces are pulling all their reserves to the frontline, Russian Commander in Ukraine Army General Sergey Surovikin told reporters on Tuesday. "The Ukrainian regime attempts to breach our defenses. The Ukrainian Armed Forces are pulling all the available reserves to do so. These are largely territorial defense forces, without the completed full course of training," the Army General said.

https://tass.com/defense/1524493

## Situation in Kherson under control, Ukrainian army's attempts to attack quashed — official

### TASS, October 19, 2022

All of the Ukrainian military's attempts to launch an offensive in the Kherson Region have been quashed, the region's deputy governor, Kirill Stremousov, has said. "The situation in Kherson is under full control. All of the Ukrainian Nazi's attempts to attack were frustrated. All groups had to retreat to the woods. Our forces have not moved back an inch. Everything is under control," he said on his Telegram channel.

https://tass.com/defense/1525043

## Energoatom Chief Warns of "Fukushima Scenario" at Zaporizhzhia NPP

#### Kyiv Post, October 20, 2022

Russian invaders are trying to seize control over the technical operations of the Zaporizhia Nuclear Power Plant, which threatens a global disaster. That's according to Energoatom President, Petro Kotin, who spoke in an interview with Radio NV, Ukrinform reports. "The occupiers are trying to seize control over the technical operations of the ZNPP. On Saturday, they broke into the chief engineer's office and declared that Moscow is taking full control, and that any actions in the technical plane must also be approved. This is a very dangerous situation," the chief of Ukraine's government-run nuclear operator said.

https://www.kyivpost.com/russias-war/ energoatom-chief-warns-of-fukushima-scenario-atzaporizhzhia-npp.html

# RF Troops by Zaporizhzhia Nuclear Plant Reportedly Looting, Abandoning Occupied Homes

## Kyiv Post, October 20, 2022

Russian Federation (RF) troops quartered in homes and apartments adjacent to the Zaporizhzhia nuclear power plant are departing the area in vehicles loaded with loot, a Thursday, Oct. 20 statement by Ukraine's national atomic energy agency Enerhoatom has said. Images and social media accounts from the city of Enerhodar, which is adjacent to the six-reactor plant, showed Russian army trucks and private vehicles with Ukrainian license plates carrying televisions, refrigerators and carpets.

https://www.kyivpost.com/russias-war/rf-troopsby-zaporizhzhia-nuclear-plant-reportedly-lootingabandoning-occupied-homes.html

## Ukrainian military says 18 Russian cruise missiles destroyed amid attacks on energy infrastructure

## CNN, October 22, 2022

The Ukrainian military said it used antiaircraft missile units and mobile fire groups to destroy Russian cruise missiles during a string of attacks on energy infrastructure across the country Saturday morning. "18 enemy cruise missiles were destroyed by aviation, anti-aircraft missile units and mobile fire groups," a post from the Air Force of the Armed Forces of Ukraine said. "In addition, the Russians attacked from ships in the Black Sea with Kalibr cruise missiles. A total of 16 starts," it continued. CNN cannot independently confirm the Ukrainian military's claims.

https://edition.cnn.com/2022/10/22/europe/ russia-ukraine-war-intl-hnk/index.html

## Ukraine shells LPR settlement using rocket from US HIMARS

## TASS, October 23, 2022

On Sunday night, the Armed Forces of Ukraine shelled the city of Zolotoe in the Lugansk People's Republic (LPR) using a rocket from US multiple launch rocket system (MLRS) HIMARS, according to the representative office of the republic in the Joint Center for Control and Coordination of Issues Related to War Crimes of Ukraine (JCCC).

https://tass.com/defense/1526183

# Ukraine shells Makeevka three times using NATO standard artillery – DPR

## TASS, October 23, 2022

On the night of Saturday to Sunday, the Armed Forces of Ukraine shelled the city of Makeevka in the Donetsk People's Republic (DPR) three times using artillery of 155 mm caliber, standard for the armies of NATO countries, according to the representative office of the DPR in the Joint Center for Control and Coordination of Issues Related to War Crimes of Ukraine (JCCC). According to the report, Ukrainian troops fired a total of 17 artillery shells. On Saturday, the headquarters of the Territorial Defense of the DPR reported that two civilians were injured in the republic as a result of the strikes.

https://tass.com/defense/1526181

## Kherson authorities call for relocation to Dnieper left bank over terror attack threats

## TASS, October 23, 2022

The Kherson Region authorities strongly call on people to leave the city districts on

the right bank over threats of further terror attacks, the region's deputy governor, Kirill Stremousov, said on Sunday. "Terror attacks are likely to be continued in the right-bank areas of the Kherson Region. So, we strongly recommend all Kherson residents leave these areas," he wrote on his Telegram channel.

## https://tass.com/defense/1526315

## Kherson authorities call for relocation to Dnieper left bank over terror attack threats

## TASS, October 23, 2022

The Kherson Region authorities strongly call on people to leave the city districts on the right bank over threats of further terror attacks, the region's deputy governor, Kirill Stremousov, said on Sunday. "Terror attacks are likely to be continued in the right-bank areas of the Kherson Region. So, we strongly recommend all Kherson residents leave these areas," he wrote on his Telegram channel.

https://tass.com/defense/1526315

# Nuclear Plant City Mayor: Enerhodar "on Brink of Humanitarian Catastrophe"

#### Kyiv Post, October 24, 2022

Dmytro Orlov, the mayor of Enerhodar in Zaporizhzhia Region, told Ukrainian media outlets on Sunday, Oct. 23 that the city was "on the brink of a humanitarian catastrophe" amid ongoing fierce Russian strikes. Orlov also addressed the current general humanitarian situation in the city. "Enerhodar is on the brink of a humanitarian catastrophe because constant enemy shelling destroys civilian infrastructure and power grids," he said. "The city remains without electricity and without water supply.

https://www.kyivpost.com/russias-war/nuclearplant-city-mayor-enerhodar-on-brink-of-humanitarian-catastrophe.html

# LPR militia reports eliminating about 70 Ukrainian militants in Donbass in past day

#### *TASS, October 25, 2022*

The Ukrainian military suffered about 70 casualties in clashes with forces of the Lugansk People's Republic (LPR) in the Donbass area in the past day, Spokesman for the LPR People's Militia Ivan Filiponenko reported on Tuesday. "In the past 24 hours, the enemy sustained heavy losses in manpower and military equipment as a result of active offensive operations by LPR people's militia forces. They eliminated up to 70 personnel, three tanks, one artillery gun, four armored personnel carriers and nine special motor vehicles," the press office of the LPR people's militia quoted the spokesman as saying on its Telegram channel.

https://tass.com/defense/1526959

# War in Ukraine Likely to Speed, Not Slow, Shift to Clean Energy, I.E.A. Says

### The New York Times, October 27, 2022

The energy crisis sparked by Russia's invasion of Ukraine is likely to speed up rather than slow down the global transition away from fossil fuels and toward cleaner technologies like wind, solar and electric vehicles, the world's leading energy agency said Thursday. While some countries have been burning more fossil fuels such as coal this year in response to natural gas shortages caused by the war in Ukraine, that effect is expected to be short-lived, the International Energy Agency said in its annual World Energy Outlook, a 524-page report that forecasts global energy trends to 2050.

https://www.nytimes.com/2022/10/27/climate/ global-clean-energyiea.html?searchResultPosition=16

## H. United Kingdom

# U.K. military warns ex-pilots not to train Chinese air force

## The Washington Post, October 18, 2022

Britain has issued a threat alert warning its former military personnel not to be lured to China with lucrative contracts to train that country's armed forces, citing concerns that such activity could give Beijing access to Britain's national-security secrets and capabilities. "China is a competitor that is threatening the U.K. interest in many places around the world," British Armed Forces Minister James Heappey told Sky News in an interview Tuesday. "There's been a concern within the MOD for a number of years," he added, referring to Britain's Ministry of Defense.

https://www.washingtonpost.com/world/2022/10/ 18/uk-military-china-pilots-raf-training/

## Britain warns of severe consequences if Putin goes nuclear

## The Times, October 20, 2022

President Putin will face "severe consequences" if he unleashes nuclear weapons on Ukraine, Downing Street has warned, as the head of the armed forces said troops need to be prepared for war. Ben Wallace, the defence secretary, flew to Washington this week for talks with his US counterpart amid concerns that the Russian president could follow through on his threats to detonate a nuclear warhead.

https://www.thetimes.co.uk/article/ben-wallacearmy-must-be-war-fit-in-face-of-putin-threat-8lj67k8lr

## UK says Russian aircraft fired missile near British spy plane over Black Sea

## Reuters, October 20, 2022

A Russian fighter jet released a missile near an unarmed British spy plane patrolling in international airspace over the Black Sea on Sept. 29, UK defence minister Ben Wallace said, in an apparent accident and not a deliberate escalation of tensions.

reuters.com/world/uk/uk-defence-ministerwallace-russian-aircraft-fired-missile-nearbritish-plane-2022-10-20/

# UK, France and Germany push for UN to carry out investigation of Iranian drones used by Russia in Ukraine

## CNN, October 21, 2022

Top British, French and German diplomats wrote to the UN Secretary General on Friday urging the UN to investigate Iran's transfer of drones to Russia, given their conclusion that the transfer violates a UN Security Council resolution which restricts certain arms transfers to or from Iran, according to a letter reviewed by CNN. "We would welcome an investigation by the UN Secretariat team responsible for monitoring the implementation of UNSCR 2231 and stand ready to support the work of the Secretariat in conducting its technical and impartial investigation," the diplomats wrote in a letter to UN Secretary General António Guterres.

https://edition.cnn.com/2022/10/21/politics/undrone-investigation/index.html

# Ben Wallace won't quit despite Rishi Sunak's refusal to commit to defence spending target

#### The Telegraph, October 24, 2022

Ben Wallace will not resign despite Rishi Sunak's refusal to commit to spending three per cent of GDP on defence, The Telegraph has learnt. It comes after the former chancellor told the European Research Group of Tory MPs (ERG) that he could not commit to the promise that was a key plank of Liz Truss's campaign. Ms Truss pledged to ensure defence spending increased by 2030. Mark Francois, the ERG chairman, said Mr Sunak did not commit to Ms Truss's three per cent pledge. He said the group asked both Mr Sunak and Penny Mordaunt about defence and Mr Sunak "did not commit to three per cent but said he was determined if he were prime minister that he would spend whatever is necessary to keep the country safe".

https://www.telegraph.co.uk/politics/2022/10/24/ rishi-sunak-wont-commit-spending-3pc-gdpdefence/

# UK Chief of Defense staff says maintaining contacts with Russia important

#### TASS, October 24, 2022

UK Chief of the Defense Staff Admiral Tony Radakin discussed the station in Ukraine during a phone call with Russian First Deputy Minister of Defense, head of the General Staff Valery Gerasimov Monday, the UK Ministry of Defense said in a statement. According to the statement, Radakin rejected Russia's warning that Ukraine plans actions on escalation of the conflict and pointed towards London's continuous support to Kiev.

https://tass.com/defense/1526829

## U.N. lawyer pushes back on Russian row over Iran drone inquiry

#### Reuters, October 25, 2022

The chief U.N. lawyer on Wednesday pushed back on a Russian argument that Secretary-General Antonio Guterres cannot report to the Security Council on Western accusations that Moscow used Iran-made drones in Ukraine in violation of a 2015 resolution.

https://www.reuters.com/world/europe/un-lawyerpushes-back-russian-row-over-iran-drone-inquiry-2022-10-26/

# Royal Navy to investigate allegations of rape and harassment of female officers

### The Telegraph, October 28, 2022

The Royal Navy has launched an investigation into "abhorrent" claims of bullying, misogyny and sexual harassment

against women within the Submarine Service. Sophie Brook, who was one of the first women to join the service after it lifted its ban on female recruits in 2011, was among those who made the allegations. The 30-year-old, who made history as the first female warfare officer, warned that the fleet is "no place for women" and has claimed she was assaulted as she slept in her bed by a colleague of a higher rank.

https://www.telegraph.co.uk/news/2022/10/28/ royal-navy-investigate-allegations-rape-harassment-female-officers/

## I. Germany

## German Cyber Chief Removed Over Claims of Ties to Russia

## The New York Times, October 18, 2022

The German government's top cybersecurity chief was removed from his post on Tuesday after a hit comedy TV show highlighted his proximity to a German lobbyist group with ties to Russian intelligence. The Interior Ministry confirmed on Tuesday the dismissal of Arne Schönbohm, who had led the Federal Office for Information Security since 2016. The allegations of possible ties to Russian intelligence, which were reported this month by a German satirical news show, "have permanently damaged the necessary public trust in the neutrality and impartiality" of Mr. Schönbohm, a spokeswoman for the ministry said.

https://www.nytimes.com/2022/10/18/world/ europe/germany-cyber-chiefrussia.html?searchResultPosition=49

## Olaf scholz urged to keep Germany's nuclear plants going

### The Times, October 19, 2022

The German opposition is pressing the chancellor to keep the country's nuclear reactors running for a further two years after he issued a stay of execution until mid-April. The chaos on the energy markets since the invasion of Ukraine has thrown into disorder Germany's long-held plans to close the plants. The last three reactors, which are running out of fuel, were supposed to be taken offline by the end of this year but will continue for three and a half more months to keep the power grid stable during the winter.

https://www.thetimes.co.uk/article/olaf-scholzurged-to-keep-germanys-nuclear-plants-goinguntil-2024-2cghh27x6

# Germany extends nuclear power use until April

# Nuclear Engineering International, October 20, 2022

German Chancellor Olaf Scholz has ordered the country's three remaining nuclear power stations to continue operating until mid-April. Scholz's order ends weeks of dispute within his governing coalition. The head of the liberal Free Democratic Party coalition partner, Christian Lindner, was pressing to keep all three plants running until at least 2024, while the Green Party led by Economy Minister Robert Habeck insisted on closing them as scheduled at the end of 2022. The Greens wanted only two plants to be kept on standby, to be used if needed in face of the energy crisis sparked by European sanctions on Russian energy. The liberal Free Democratic Party, on the other hand, had been pushing to keep all three reactors active until 2024.

https://www.neimagazine.com/news/ newsgermany-extends-nuclear-power-use-untilapril-10102309

## On Ukraine and on Energy, Germany Is Upsetting Its Allies in Europe

#### The New York Times, October 25, 2022

At a moment when Germany's allies seek reassurance and leadership, even its closest partners wonder aloud about its commitment to European solidarity. Although Germany has long been Europe's de facto leader, it has been slow to provide serious military equipment to Ukraine. It has also subsidized its own citizens' energy bills while working to water down a price cap on gas that could alleviate pain in poorer countries of the European Union. https://www.nytimes.com/2022/10/25/world/ europe/germany-ukraine-energypolicy.html?searchResultPosition=20

## J. Finland

# Finland to Allow for Deployment of NATO Nuclear Weapons on Its Territory, Reports Say

#### Sputnik International, October 26, 2022

Finland's draft legislation on the country's accession to NATO, which is almost prepared, does not contain any restrictions on establishment of military bases and deployment of nuclear weapons on the its territory, local newspaper reported on Wednesday, citing sources.

https://sputniknews.com/20221026/finland-toallow-for-deployment-of-nato-nuclear-weaponson-its-territory-reports-say-1102667202.html

# Cracks found in Finnish OL3 nuclear reactor's feedwater pumps

#### Reuters, October 28, 2022

Cracks of a few centimetres have been found in all four feedwater pumps of Finland's Olkiluoto 3 (OL3) nuclear reactor, operator TVO said on Friday, adding it was still unclear how the damage would impact the scheduled commissioning of the plant.

https://www.reuters.com/business/energy/ cracks-found-finnish-ol3-nuclear-reactorsfeedwater-pumps-2022-10-28/

## K. IAEA

# IAEA in Contact with UN, Russia and Ukraine, Will Focus on 2 Sites For Nuclear Deviation - Grossi

#### Sputnik International, October 27, 2022

International Atomic Energy Agency (IAEA) Director General Rafael Grossi told Sputnik on Wednesday the agency's plan to concentrate on two sites for a potential nuclear material deviation in Ukraine, the common understanding to protect the ZNPP, his expectation to visit the UNSC, and ongoing dialogue between Moscow and Kiev. Grossi announced earlier in the week that IAEA experts are preparing to visit two nuclear facilities in Ukraine in the coming days following Russian statements about alleged activities. This came on the heels of Moscow's allegation that Ukraine has created a dirty bomb. The IAEA also said he received a written request from Ukrainian Foreign Minister Dmytro Kuleba to carry out verification inspections at the two locations.

https://sputniknews.com/20221026/iaea-incontact-with-un-russia-and-ukraine-will-focuson-2-sites-for-nuclear-deviation – grossi-1102738835.html

### L. Poland

# Poland picks U.S. offer for its first nuclear power plant, prime minister says

#### Reuters, October 28, 2022

U.S. firm Westinghouse Electric Co will build Poland's first nuclear power plant, Prime Minister Mateusz Morawiecki said on Friday, confirming a long-awaited decision aiming to reduce the country's carbon emissions and phase out coal. With Russia waging war in neighbouring Ukraine, Poland's choice of a partner from the United States underlines the emphasis Warsaw places on relations with Washington at a time when its security is in the spotlight.

https://www.reuters.com/world/poland-picks-usoffer-its-first-nuclear-power-plant-pm-2022-10-28/

## M. United States of America

## US Says Iranian Drones Breach Sanctions

#### Kyiv Post, October 18, 2022

According to the U.S. State Department, the U.S. concurs with the French and British that the drones are a violation of United Nations Security Council Resolution 2231. This resolution, which is connected to the nuclear deal with Iran, prohibits Iran from transferring specific military technologies. The drones, also known as unmanned aerial vehicles (UAVs), have been identified by

Ukraine as Iranian Shahed-136 weapons. After the Japanese fighter pilots who carried out suicide missions during World War Two, they are known as kamikaze drones.

https://www.kyivpost.com/world/u-s-saysiranian-drones-breach-sanctions.html

# US Arms Ultimatum to Saudi Arabia Unlikely to Be Matched by Action

### Sputnik International, October 18, 2022

Saudi Arabia pays no attention to hostile rhetoric by US Democrats, who vowed to haul military cooperation with the kingdom, because the US defense industry is unlikely to allow a complete suspension of such cooperation, international experts told Sputnik. Last week, OPEC+ unanimously agreed to decrease oil production by two million barrels per day starting in November in response to uncertainty in global energy markets. Democrats in the US Congress have issued a fresh ultimatum to Saudi Arabia, giving the kingdom weeks to reverse the OPEC+ decision and roll back oil production or face a potential one-year freeze on all arms sales.

https://sputniknews.com/20221018/us-armsultimatum-to-saudi-arabia-unlikely-to-bematched-by-action-1102004378.html

# US Signs \$78 Million Deal to Maintain Taiwan's Patriot Air Defense System

### Sputnik International, October 20, 2022

Taipei has signed a deal with Washington to maintain the island's MIM-104 Patriot air defense system for another five years, a Taiwanese authority posting revealed on Thursday. The deal was announced on the Taiwanese Defense Ministry's online procurement platform, according to the South China Morning Post (SCMP), which first reported the story. According to the Hong Kong-based paper, a source in the Taiwanese military said that the deal calls for engineering teams from Lockheed https://sputniknews.com/20221020/us-signs-78million-deal-to-maintain-taiwans-patriot-airdefense-systems-1102473897.html

## Pentagon Seeks to Reassure Service Members on Access to Abortion

### The New York Times, October 20, 2022

Defense Secretary Lloyd J. Austin III issued a directive on Thursday meant to reassure military service members that the Supreme Court ruling overturning Roe v. Wade would not leave troops without access to abortions in states where the procedure had been banned. The Pentagon will provide travel funds and other support for women who seek abortions but who are based in states where the procedure is illegal, the directive says.

https://www.nytimes.com/2022/10/20/us/politics/ military-abortionaccess.html?searchResultPosition=2

# US Security Strategy Reveals Reluctance to Engage in Equal Dialogue With Moscow: Russian Envoy

### Sputnik International, October 20, 2022

Last week, the Russian Foreign Ministry underscored that Moscow does not threaten anyone with nuclear weapons, and that it is western capitals who use nuclear rhetoric, trying to make it look like Russia is purportedly preparing to deliver strikes using weapons of mass destruction. Russian Ambassador to Washington Anatoly Antonov has urged the US not to threaten the nuclear option because there will be no winner in a nuclear conflict.

https://sputniknews.com/20221020/us-securitystrategy-reveals-reluctance-to-engage-in-equaldialogue-with-moscow – russian-envoy – 1102468886.html

# American B-1B bombers land in Guam to 'deter adversaries' and reassure allies

#### Reuters, October 21, 2022

U.S. Air Force B-1B bombers landed in Guam this week in the long-range aircraft's second deployment to the island this year amid regional tension over Taiwan and the looming prospect of a new North Korean nuclear test.

https://www.reuters.com/world/us/american-b-1b-bombers-land-guam-deter-adversariesreassure-allies-2022-10-21/

# US Air Force Confirms B-1 Bombers Deployed to Guam, Says Not Tied to Any Country or Threat

## Sputnik International, October 21, 2022

The US Air Force confirmed to Sputnik that B-1 bombers recently deployed to Guam for routine mission flights, but added that they are not in response to any country or threat. Flight tracker data shows that four B-1 bombers recently deployed to Andersen Air Force Base in Guam following a series of ballistic missile launches by North Korea, including one that flew over Japan earlier this month.

https://sputniknews.com/20221021/us-air-forceconfirms-b-1-bombers-deployed-to-guam-saysnot-tied-to-any-country-or-threat-1102510559.html

# US DOE awards funds for nuclear recycling projects

## WNN, October 24, 2022

The US Department of Energy (DOE) has selected twelve projects looking to advance recycling of used nuclear fuel - or UNF from commercial power reactors to receive USD38 million of funding. The projects, led by universities, private companies and national laboratories, will work towards reducing the impacts of used fuel disposal, DOE said.

https://www.world-nuclear-news.org/Articles/

US-DOE-awards-funds-for-nuclear-recyclingprojects

## Ashton B. Carter, Defense Secretary Under Obama, Dies at 68

#### The New York Times, October 25, 2022

Ashton B. Carter, who harnessed his training in theoretical physics and knowledge of nuclear weapons to climb the leadership ranks at the Pentagon – culminating in two years as secretary of defense under President Barack Obama, a position he used to further open the military to female and transgender service members – died on Monday at his home in Boston. He was 68. The cause was a heart attack, his family said in a statement.

https://www.nytimes.com/2022/10/25/us/ashtonb-carter-dead.html?searchResultPosition=1

# Canada commits C\$970 million to new nuclear power technology

#### Reuters, October 25, 2022

Canada will provide C\$970 million (\$708 million) in financing to develop a grid-scale small modular reactor (SMR), a new nuclear technology touted as a key part of the country's plans to reduce emissions, Natural Resources Minister Jonathan Wilkinson said on Tuesday.

https://www.reuters.com/business/energy/canadabacks-nuclear-power-project-with-c970-mlnfinancing-2022-10-25/

# U.S. house speaker Pelosi says Iran making 'big mistake' supplying Russia with drones

#### Reuters, October 25, 2022

U.S. House of Representatives Speaker Nancy Pelosi said on Monday that Iran was making the world less safe by supplying Russia with drones to be used against targets in Ukraine.

https://www.reuters.com/world/us-house-speakerpelosi-says-iran-making-big-mistake-supplyingrussia-with-2022-10-24/

# Biden Says Russian Use of a Nuclear Weapon Would Be a 'Serious Mistake'

### The New York Times, October 25, 2022

President Biden renewed his warning to President Vladimir V. Putin on Tuesday that it would be an "incredibly serious mistake" to use a tactical nuclear weapon in Ukraine, reflecting the increasingly urgent concern in Washington and among Western allies that Russia may be searching for a pretext to unleash such a weapon.

https://www.nytimes.com/2022/10/25/us/ politics/biden-russia-ukrainenuclear.html?searchResultPosition=1

# US to send hi-tech nuclear weapons to Nato bases amid rising tensions with Russia

### The Telegraph, October 27, 2022

America is to bring forward the delivery of dozens of highly accurate guided tactical nuclear weapons to Europe amid escalating tensions with Moscow. The new B61-12 thermonuclear bombs are "dial-ayield" devices, meaning their payload can be changed. They are expected to be sent to Nato bases within weeks. B61-12s have four yields that can be selected - 0.3, 1.5, 10 or 50 kilotons. The bomb dropped on Hiroshima in 1945 had a yield of about 15 kilotons. The 12ft-long weapons feature new tailkits that allow them to be dropped from planes as a "dumb" gravity bomb, or in "guided drop" mode, with an accuracy of within 30 metres.

https://www.telegraph.co.uk/world-news/2022/ 10/27/us-send-nuclear-weapons-nato-basesamid-rising-tensions-russia/

# Somalia Asks U.S. to Step Up Drone Strikes Against Qaeda-Linked Fighters

## The New York Times, October 27, 2022

The Biden administration is weighing a request by Somalia that the United States

loosen restrictions on its military drone strikes targeting Shabab militants in the troubled Horn of Africa nation, according to several U.S. officials. The request comes as a new Somali administration has launched an offensive against Al Shabab, with several local clan militias joining the central government's fight. President Biden also recently redeployed 450 U.S. troops to Somalia, reversing former President Donald J. Trump's abrupt withdrawal in January 2021.

https://www.nytimes.com/2022/10/27/us/politics/ somalia-shabab-usstrikes.html?searchResultPosition=10

## U.S. Program Aims to Keep Sensitive Weapons in Ukraine

#### The New York Times, October 27, 2022

Following concerns in Congress and accusations by Russia about weapons smuggling, Biden the administration released its blueprint on Thursday for ensuring that the \$17 billion in arms it has so far sent to Ukraine were making it to the battlefield - and not the black market. Officials said many aspects of the plans, which were put in place over the summer, were classified and could not be publicly revealed without risking the steps necessary to track weapons that the West has delivered to Ukraine since Russia invaded in February.

https://www.nytimes.com/2022/10/27/us/politics/ weapons-aid-ukrainerussia.html?searchResultPosition=7

# Pentagon's Strategy Says China and Russia Pose Very Different Challenges

#### The New York Times, October 27, 2022

Eight months after Russia's invasion of Ukraine and as China pushes to increase its nuclear, space and cyberforces, the Pentagon outlined a sweeping new strategy on Thursday that called for more robust deterrence at an increasingly tense moment in international security. The document, the National Defense Strategy, which also includes reviews of the U.S. nuclear arsenal and missile defenses, has been circulating for months in classified form on Capitol Hill.

https://www.nytimes.com/2022/10/27/us/ politics/biden-military-russiachina.html?searchResultPosition=5

# US must strengthen defenses in face of increasing threats from China and Russia, US defense strategy says

### CNN, October 27, 2022

The US must strengthen its defenses against increasing threats from both China and Russia, focusing on Beijing as its main global competitor, the Biden administration's national defense strategy released Thursday says. While Russia remains an "acute threat" to the US according to the strategy, it has been "absolutely deterred from attacking NATO," a senior defense official said.

https://edition.cnn.com/2022/10/27/politics/usdefense-strategy-china-russia/index.html

# U.S. to scrap sea-launched nuclear missile despite military backing

#### Reuters, October 27, 2022

The United States will stop developing nuclear-armed sea launched cruise missiles, Pentagon documents released on Thursday said, despite senior military officials publicly recommending keeping it.

https://www.reuters.com/world/us/us-scrap-sealaunched-nuclear-missile-despite-militarybacking-2022-10-27/

# U.S. to Scrap Sea-Launched Nuclear Missile Despite Military Backing

#### US News, October 27, 2022

The United States will stop developing nuclear-armed sea launched cruise missiles, Pentagon documents released on Thursday said, despite senior military officials publicly recommending keeping it. The decision to cancel the submarinelaunched cruise missile could help President Joe Biden address calls from fellow Democrats to scale back America's nuclear arsenal without sacrificing major components of its nuclear "triad" of nucleartipped ground-based inter-continental ballistic missiles, nuclear-capable bomber aircraft and submarine-launched nuclear arms.

https://www.usnews.com/news/top-news/articles/ 2022-10-27/u-s-to-scrap-sea-launched-nuclearmissile-despite-military-backing

# Westinghouse to study UK production of advanced nuclear fuel

## WNN, October 27, 2022

Westinghouse has been awarded a grant by the UK government to complete a Pre-Front End Engineering Design study, in collaboration with Urenco, for the production of TRISO fuels at its Springfields facility in Preston, Lancashire. The grant, through the Department for Business, Energy and Industrial Strategy (BEIS), will consider a secure and reliable supply of advanced TRISO - tristructural isotropic fuels to support a range of potential hightemperature gas-cooled reactor (HTGR) development. technologies under Westinghouse will also receive support on this study from TRISO-X LLC, a wholly owned subsidiary of X-energy of the USA. The value of the grant was not disclosed.

https://www.world-nuclear-news.org/Articles/ Westinghouse-to-study-UK-production-ofadvanced-nu

# U.S. to provide Ukraine with \$275 mln in military aid, Blinken says

### Reuters, October 28, 2022

The United States will provide \$275 million in additional military assistance to Ukraine, including arms, munitions and equipment from U.S. Department of Defense inventories, Secretary of State Antony Blinken said on Friday.

https://www.reuters.com/world/us-provideukraine-with-275-mln-military-aid-blinken-says-2022-10-28/

# USA, Japan partner with Ghana on SMR deployment

## WNN, October 28, 2022

The USA, Japan and Ghana have announced a strategic collaboration to support the deployment of small modular reactors (SMRs) in the West African nation. Through the partnership, Ghana could become an advanced nuclear technology hub. US Under Secretary of State for Arms Control and International Security Bonnie Jenkins and Japan's Minister of Economy, Trade and Industry Ota Fusae announced deeper cooperation to support the deployment of SMR and other advanced reactor technologies in partner countries. The announcement -Winning an Edge Through Cooperation in Advanced Nuclear (WECAN) - reaffirms commitments by Japan and the USA to energy innovation, energy security, and global clean energy transition in a smart, cost-effective, and secure way by advancing the latest technology and commercial leadership in emerging technologies that provide firm, reliable electricity and industrial heat.

https://www.world-nuclear-news.org/Articles/ USA,-Japan-partner-with-Ghana-on-SMRdeployment

## N. West Asia

# Kuwait reiterates support for nuclear non-proliferation

### Kuwait Times, October 26, 2022

The State of Kuwait reiterated its firm support for non-proliferation of all types of nuclear weapons welcoming any progress made at this level, as it pursues eliminating the danger of war. This came in a statement delivered by diplomatic attache Abdulrahman Al-Hashim before the First Committee of the UN General Assembly. Al-Hashim explained that the military spending last year exceeded two trillion US dollar barrier, pointing to the need to provide human, economic and intellectual resources for peaceful purposes.

https://www.kuwaittimes.com/?s=nuclear

# Saudi king urges Iran to comply with nuclear deal

## The National News, October 28, 2022

Iran must co-operate with the International Atomic Energy Agency and the global community if it wants to revive the 2015 nuclear deal, Saudi Arabia's King Salman said on Sunday. Efforts to save the accord have faced several stumbling blocks, including Iran's continued nuclear advances and the recentcrackdown on protesters across the country. "We call onIran to urgently fulfil its nuclear obligations [and] co-operate fully with the International Atomic Energy Agency," Saudi Arabia's state news agency reported King Salman as saying.

https://www.thenationalnews.com/gulf-news/ saudi-arabia/2022/10/17/saudi-arabia-king-urgesiran-to-comply-with-nuclear-deal/

# UAE's nuclear energy chief lands global safety role

#### The National News, October 28, 2022

The UAE's nuclear energy chief spoke of his pride after securing a prominent role to champion safety in the sector around the world. Mohamed Al Hammadi has been a driving force behind the development of the country's Barakah Nuclear Energy Plant as chief executive and managing director of Emirates Nuclear Energy Corporation. He has now made history as the first person from the Arab world to be appointed president of the World Association of Nuclear Operators. He was voted in at the organisation's biennial general meeting in Prague.

https://www.thenationalnews.com/uae/env ironment/2022/10/13/uaes-nuclear-energy- chieflands-global-safety-role/

### O. Iran

# Iran Carries Out Initial Tests of Bavar 373 Missile System at Range of 300km

#### Fars News, October 16, 2022

Commander of the Iranian Army Air Defense Force Brigadier General Alireza Sabahifard highlighted his country's great advancements in the air defense fields, and confirmed that Tehran has begun conducting initial tests of the domesticallybuilt Bavar 373 missile system at a range of 300 kilometers. Addressing a military academy in the capital Tehran on Sunday, Sabahifard said Iran's Air Defense Force is equipped with indigenous radar systems that can monitor the movements of enemies even in their homes within a span of thousands of kilometers. Iran has upgraded Bavar 373 missile defense system, initially unveiled in August 2019 with a range of 200 kilometers, proportional to threats, the senior commander stated.

https://www.farsnews.ir/en/news/1401072 4000571/Iran-Carries-O-Iniial-Tess-f- Bavar-33-Missile-Sysem-a-Range-f- 300km

# Drones Embody an Iran-Russia Alliance Built on Hostility to the U.S.

#### The New York Times, October 17, 2022

The Iranian-made drones that Russia sent on Monday todivebomb Ukraine's capital delivered the most emphatic proof yet that Tehran has become a rare, increasingly close ally to the Kremlin, offering both weapons and international support that Russia sorely lacks. There is no deep love between Russia, newly a pariah for attacking another country, and Iran, for decades one of the most strategically isolated nations in the world. But the two authoritarian governments, both chafing under Western sanctions, share a view of the United States as their great enemy and a threat to their grip on power.

https://www.nytimes.com/2022/10/17/worl d/ europe/russia-iran-alliancedrones.html?searchResultPosition=52

# IRGC Commander Warns S. Arabia Against Meddling in Iran's Affairs

#### Fars News, October 17, 2022

Commander of the Islamic Revolution Guards Corps (IRGC) Major General Hossein Salami criticized Saudi Arabia for interfering in Iran's domestic affairs, and urged Riyadh to rein in its anti-Tehran media. The IRGC chief has issued a stern warning against Saudi Arabia over its media campaign that has been stoking tensions in the recent unrest in Iran. "We defend our vital interests under any circumstances. We emphasize that our neighbors should behave non-aggressively according to political logic as well as international and legal law,"Maj. Gen. Salami noted on Monday. The senior commander warned Riyadh to stop interfering in Iran's internal affairs through a smear campaign launched by its media, stressing, "I warn the Al Saud regime to control your media or it will backfire on you."

https://www.farsnews.ir/en/news/1401072 5000567/IRGC-Cmmander-Warns-S- Arabia-Agains-Meddling-in-Iran's-Affairs

# 22 countries seek to buy Iranian drones: general

### The Tehran Times, October 18, 2022

Major General Yahya Rahim Safavi made the remarks at a gathering in Imam Hussein University. "22 countries are requesting to buy Iranian drones," said Rahim Safavi, the former IRGC chief. Stating that prior to the Islamic Revolution, 80% of the defense equipment were imported, the top general highlighted that over 80% of the defense equipment are now indigenously made. According to the major general, the victory of the Islamic Revolution and the 8-year imposed war on Iran were two key events that changed the contemporary world.

https://www.tehrantimes.com/news/47774 9/22countries-seek-to-buy-Iranian-drones- general

# Iran's Military Employs Homegrown Missile Fath 360 During Wargames

#### Fars News, October 18, 2022

The Islamic Revolution Guards Corps (IRGC) Ground Force launched a military exercise in Iran's Northwestern regions in which it used the domestically-developed strategic surface-to-surface missile, Fath (Conquest) 360, with the range of 120 kilometers. The projectile uses tactical solid fuel and is a precision weapon. The missile has a range of 120 kilometers and is capable of destroying a range of targets including logistic systems of the enemy. This enables ground forces to enter the battlefield. Fath 360 is highly resistant to electronic warfare and is capable of destroying its targets without any disruption. Its battery fires its multiple missiles within a minute to avoid getting targeted by the enemy.

https://www.farsnews.ir/en/news/1401072 6000222/Iran's-Miliary-Emplys- Hmegrwn-Missile-Fah-360-Dring- Wargames

# Iran backs proposal on nuclear weapons convention

Islamic Republic News Agency, October 18, 2022

In a United Nations General Assembly meeting on Monday, Heydar-Ali Balouji, a diplomat in Iran's permanent mission in the UN, said that the repeated failures of revision in the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) showed that there was no vision for complete elimination of nuclear arms. Nuclear disarmament has been on the international agenda since 1946 when the General Assembly adopted its first resolution calling for the elimination of nuclear weapons and since the NPT entered into force in 1970, Balouji said. However, he said, the nuclear-weapon states undertook a legal obligation to negotiate to cease the nuclear arms race and disarm. "But the nuclear arsenals have exceeded 13,000 weapons, with the number and quality of these devastative weapons set to increase in the coming years."

https://en.irna.ir/news/84915154/Iran-backsproposal-on-nuclear-weapons- convention

## Iran: Protests, EU Sanctions, a Nuclear Deal in Tatters

#### Albawaba, October 18, 2022

Iran condemned fresh sanctions imposed by the European Union on Iranian officials and institutions, vowing retaliation. Foreign Ministry spokesman Nasser Kanaani termed the EU sanctions as a "violation of international law" and a "clear example of interference" in Iran's internal affairs. "It is deeply regrettable that certain political motivations as well as relying on baseless, distorted information and fabricated claims by the enemies of the Iranian nation and the well-known media affiliated with them are the basis of such a wrong and unconstructive decision," he said.

https://www.albawaba.com/news/iran-protestseu-sanctions-nuclear-deal-tatters- 1495415

# Iranian combat drones in the war against Ukraine

#### Kyiv Post, October 19, 2022

The Russian military is increasingly deploying "kamikaze" drones in its attacks on Kyiv and other Ukrainian cities. These unmanned aircraft equipped with missiles are purportedly being supplied by Iran, although Tehran denies this. Europe's press discusses how their use could affect the course of the war.

https://www.kyivpost.com/world/eurotopic siranian-combat-drones-in-the-war- againstukraine.html

# IRGC Conducts Aerial Practice During Wargames

#### Fars News, October 19, 2022

The Islamic Revolution Guards Corps (IRGC) continued its large-scale drills in Northwestern Iran to exercise tactical operations, including heliborne and parachuting. The IRGC Ground Force's troops carried out heliborne and parachute jump operations during the military exercise in in Northwestern Iran on Wednesday. On the third day of the 'Mighty Iran' wargames, underway in 'Aras' region along the Northwestern boundaries in the provinces of Ardabil and East Azarbaijan, the IRGC special forces conducted airborne operations with Mil Mi- 17 helicopters in predetermined areas. The participants in the drils also seized the routes and heights controlled by the hypothetical enemy.

https://www.farsnews.ir/en/news/1401072 7000432/IRGC-Cndcs-Aerial-Pracice-Dring-Wargames

# Leader hails Iran's astonishing achievements in military, nuclear, scientific fields

#### Fars News, October 19, 2022

Supreme Leader of the Islamic Revolution Ayatollah Seyed Ali Khamenei lauded his country for its achievements in military, nuclear and scientific arenas, and stressed that the elites are one of the most important assets of Iran for standing up against arrogant powers. The Supreme Leader made the remarks in a meeting with academic elites and top university students on Wednesday. "Talented individuals are among the most important assets of the country," Ayatollah Khamenei said. "When we recognize that the talented are a great wealth, we will endeavor to nurture talented individuals, we will understand that losing them is a loss, and we will prevent this loss as much as possible," he added.

https://www.farsnews.ir/en/news/1401072 7000696/Leader-Hails-Iran's-Asnishing-Achievemens-in-Miliary-Nclear-

## Son of late Iran shah voices solidarity with Ukraine over drones

#### Arab News, October 20, 2022

The son of Iran's late shah on Thursday voiced solidarity with Ukrainians who have suffered from Russian-fired drones allegedly sold by Tehran and urged new, tough action against the clerical regime. "Our hearts go out to the Ukrainian people who are defending their sovereignty," Reza Pahlavi told reporters after delivering an address from his home in exile in Washington on protests that have swept Iran. "We accuse the Islamic regime of not only having completely destroyed our freedom," he said, but "now it is also cooperating with those who are putting at risk another nation's sovereignty."

https://www.arabnews.com/node/2184981/world

# Cyber group hacks Iran's nuclear company email system, demands release of detainees

### Arab News, October 22, 2022

An Iranian cyber group has reportedly hacked the internal email system of Iran's Nuclear Power Production and Development Company on Friday, demanding the release of detained activists. Hackers from the group called "Black Reward" have threatened to leak the company's internal data, according to the group's Twitter account, cited by Al Arabiya news website. The group gave the Iranian regime 24 hours to release detained political prisoners and protesters, the report cited the statement issued by the hackers.

https://www.arabnews.com/node/2185846/ middle-east

# Iranian hacker group releases details about nuclear program

### i24, October 23, 2022

An Iranian hacker group known as "Black Reward" published confidential details about the Iranian nuclear program on Saturday after it announced that it had successfully hacked the email of the country's Nuclear Power Production and Development Company. A video file was included among the leaked documents, showing a nuclear power plant in an unknown location. Additional information made public includes "Iran's public and private conversations with the International Atomic Energy Agency."

https://www.i24news.tv/en/news/middle- east/ iran-eastern-states/1666464389- iranian-hackergroup-releases-details- about-nuclear-program

## Iranian army ground force holds large- scale military exercise

## Fars News, October 23, 2022

The Iranian Army's Ground Force kicked off large-scale three-day drills in West Azarbaijan province to boost its combat capability in the face of new threats. The wargame is staged at Pasveh and Piranshahr counties in Northwestern Iranian province of West Azarbaijan, the public relations office of Iran's Army' Northwestern headquarters announced on Sunday. Colonel Hamid Firuzjaei, the commander of the 164th Mobile Assault Brigade of the Army's Ground Forces, said the three-day exercise, codenamed 'Brigade's Role Model', launched in Pasveh District in Piranshahr County on Saturday in order to evaluate the combat power of the forces and to display their military capabilities. "The forces partaking in the exercise use organizational, light, semiheavy and heavy weapons in line with the goals of the exercise and demonstrate their combat and defense capabilities," Firuzjaei added.

https://www.farsnews.ir/en/news/1401080 1000373/Iranian-Army-Grnd-Frce-Hlds-Large-Scale-Miliary-Exercise

## Iran says Washington lacks political will to revive nuclear deal

#### Arab News, October 24, 2022

Iran's Foreign Ministry spokesperson said on Monday that the United States lacked the political will for the revival of the 2015 nuclear deal. "We do not do talks for the sake of talks. Iran is ready for the revival of the 2015 nuclear deal, but it seems Washington does not have the political will," ministry spokesperson Nasser Kanaani said in televised news conference.

https://www.arabnews.com/node/2186971/ world

# Who is hacking Iran's 'nuclear' server?

## Albawaba, October 24, 2022

Iran's nuclear energy agency said Sunday an email server of one of its subsidiaries was hacked from a foreign country amid ongoing protests over the death of a young woman in police custody. In a statement, the Atomic Energy Organization of Iran (AEOI) confirmed the intrusion into an email server of the Bushehr Nuclear Power Plant from "a certain foreign country", with information about activities there being leaked online. The agency, however, played down the hacking incident, saying the move was designed to "attract public attention" and "create media space".

https://www.albawaba.com/news/who-hackingirans-nuclear-server-1496047

# N. Chief: Iran on track toward indigenizing reactors

#### Fars News, October 25, 2022

Head of the Atomic Energy Organization of Iran (AEOI) Mohammad Eslami said that Tehran has began the process of indigenizing, designing and constructing

nuclear reactors. Visiting the Nuclear Technology Department of Iran's prestigious Shiraz University on Monday, Eslami stated Iran is determined to "wipe off the nuclear hype" created by the West, adding the adversaries intend to hinder Iran's progress in the nuclear field by raising accusations. "By expanding our activities on the surface and depth, we intend to become the hub of constructing nuclear power plants in the world," the AEOI chief continued. Eslami also pointed out that Iran is still in contact with the International Atomic Energy Agency (IAEA) and talks are underway to set out an outline to resume negotiations over the nuclear standoff between Tehran and major powers in the world.

https://www.farsnews.ir/en/news/1401080 3000375/N-Chief-Iran-n-Track-Tward-Indigenizing-Reacrs

# Iran thwarted 120 heavy cyberattacks in 20 days: official

## The Tehran Times, October 25, 2022

The official, Brigadier General Gholam Reza Jalali, who is the head of the Civil Defense Organization of Iran, pointed to the increase in the number of cyberattacks against Iran's infrastructures over the last few weeks in a press conference held on Tuesday. "120 heavy DDoS cyberattacks on the infrastructures have been foiled during the past 20 days," he said, according to Tasnim. DDoS, or distributed denial of service, is a type of cyberattack that tries to make a website or network resource unavailable by flooding it with malicious traffic so that it is unable to operate.

https://www.tehrantimes.com/news/47800 4/ Iran-thwarted-120-heavy-cyberattacks- in-20days-official

# Iranian president calls on us not to waste time in N. Talks

#### Fars News, October 25, 2022

Iranian President Seyed Ebrahim Rayeesi said on Tuesday the ball is in the US court regarding the negotiations aimed at reviving the 2015 nuclear deal, and urged Washington not to waste time and make a political decision. In a meeting held in Tehran with senior directors of media and news agencies which are members of the Organization of Asia-Pacific News Agencies (OANA), President Rayeesi stated that the United States should decide on the negotiations to remove sanctions on Iran, but it delays and wastes time. "There is no deviation in Iran's nuclear activities as the issue has already been confirmed 15 times by the International Atomic Energy Agency (IAEA)," he noted.

https://www.farsnews.ir/en/news/1401080 3000538/Iranian-Presiden-Calls-n-US-N-Wase-Time-in-N-Talks

# Iranian N. Chief reveals us message on talks

### Fars News, October 26, 2022

Head of the Atomic Energy Organization of Iran (AEOI) Mohammad Eslami declared that the United States has sent a message in recent days for negotiations over the restoration of the 2015 nuclear deal. Eslami said on Tuesday that the US had recently delivered a message announcing its readiness to continue talks over the revival of the landmark agreement. The official added that the US conveyed its message three or four days ago, contrary to its position last month that talks with Iran were no longer on its agenda. The AEOI head also spoke about Iran's nuclear activities, stating that the country's nuclear program has been under extensive inspections by the UN atomic watchdog over the past decades.

https://www.farsnews.ir/en/news/1401080 4000354/Iranian-N-Chief-Reveals-US- Messagen-Talks

# At least 13 martyred, over 20 wounded in terror attack in Iran's Shiraz

### Fars News, October 26, 2022

At least 13 people were martyred and more than 20 others injured in a terrorist attack on a holy shrine in the Southern Iranian city of Shiraz on Wednesday. The assault took place at the Shah Cheragh Shrine on Wednesday evening and was carried out by a heavily-armed assailant. Initial reports said a men armed with Kalashnikov rifle entered the popular Shia shrine at 5:45 pm local time and opened fire at the pilgrims inside the site. One witness told reporters that loud screams were heard in the women's section of the shrine at the time of adhan (the call for prayer) and suddenly an armed man was spotted with a Kalashnikov firing indiscriminately in the compound of the shrine.

https://www.farsnews.ir/en/news/1401080 4000853/A-Leas-3-Maryred-Over-20-Wnded-in-Terrr-Aack-in-Iran's-Shiraz

# Iran calls Israel's conventional weapons arsenal threat to entire middle east

#### Sputnik International, October 26, 2022

The Islamic Republic and the Jewish State broke off diplomatic ties after the Iranian Revolution of 1979, becoming regional arch adversaries engaging one another in a series of proxy conflicts and a behindthe- scenes intelligence war of sabotage, assassinations and hack attacks. A senior Iranian United Nations diplomat has called out Israel over its suspected weapons of mass destruction and outsized conventional military spending.

https://sputniknews.com/20221025/iran- callsisraels-conventional-weapons- arsenal-threat-toentire-middle-east- 1102649881.html

## Iranian destroyers to be armed with Abu Mahdi cruise missiles

#### The Tehran Times, October 26, 2022

The missile bears the name of the deputy commander of Iraq's Popular Mobilization Units (PMU), who was assassinated in a U.S. drone attack near Baghdad International Airport in January 2020 together with senior Iranian counterterrorism commander Lieutenant General Qassem Soleimani. The missile is being installed aboard Iranian military vessels, according to Irani. He said the opponents are aware of the features and have seen the capabilities of the Abu Mahdi naval cruise missile in action. He revealed that once used in electronic warfare systems, the missile can effectively carry out its missions. The admiral said the missile has gone through multiple testing.

https://www.tehrantimes.com/news/47803 9/ Iranian-destroyers-to-be-armed-with- Abu-Mahdi-cruise-missiles

## Top military official: Rioters complicit in Shiraz terror attack

Islamic Republic News Agency, October 27, 2022

The chief of the General Staff of the Iranian Armed Forces said that rioters involved in

the latest unrest in the country are complicit in the Wednesday terrorist attack in Shiraz. Major General Mohammad Baqeri made the comment a day after the Shah Cheragh holy shrine was hit by a shooting attack which left 15 people dead and 27 others wounded. Two children were among the dead in the attack that was claimed by the Daesh terrorist group. The military official said that the rioters should know that protecting calm, as well as the lives and property of the Iranian people is a red line for the country's armed forces.

https://en.irna.ir/news/84925245/Top-militaryofficial-Rioters-complicit-in-Shiraz-terror-attack

## Military chief vows retribution against committers of Shiraz terrorist act

### The Tehran Times, October 28, 2022

TheDaeshhasclaimedresponsibilityfor the terrorist attack on Shah Cheragh's shrine late on Wednesday. The attack took place shortly before evening prayers, when an assailant opened indiscriminate fire on pilgrims within the shrine before being injured and apprehended by security forces. Major General Mohammad Bagheri, the Iranian armed forces chiefs of staff, said in a statement that security and intelligence forces will swiftly punish the "internal and foreign designers and perpetrators" of the heinous crime for their despicable deeds. He continued by saying that the individuals responsible for the most recent wave of disturbance in the country as well as others who had been duped in the matter were "undoubtedly accomplices in this great crime."

https://www.tehrantimes.com/news/47805 9/ Military-chief-vows-retribution-againstcommitters-of-Shiraz

## Ukraine has shot down 300 Iranian drones, air force says

## The National News, October 28, 2022

Ukrainehas shot down more than 300 Iranian-made drones so far, an official from its air force said on Friday. Kyiv has taken down hundreds of Shahed-136 kamikaze drones made in Iran, Yuriy Ihnat said on Friday. Ukraine has repeatedly called for international aid in establishing air defence systems as Russia steps up its attacks on the country. In an address on Friday, President Volodymyr Zelenskyy said Kyiv had taken down 23 of more than 30 Shahed drones fired by Russia in the past two days.

https://www.thenationalnews.com/world/e urope/2022/10/28/ukraine-has-shot-down- 300iranian-drones-says-air-force/

# Iranian army says determined to revenge Shiraz terrorist attack

### Fars News, October 29, 2022

The Iranian Army underlined its resolve to avenge the blood of the martyrs of a terrorist attack at a Shia shrine in the city of Shiraz, reiterating that it stands ready to hit the enemies with "an iron fist" in any location. Pointing to the recent protests and deadly riots in Iran, the Iranian Army said that the enemies plotted the recent wave of riots with the goal of creating insecurity and unrest in Iran, and that the terror attack on Shah Cheragh Shrine was part of the same conspiracy. "Undoubtedly, the futile attempts of the enemies will not only fail to deal any blow to the Iranian nation's will, but will instead consolidate their unity and solidarity and strengthen their determination to pursue the ideals of late Imam Khomeini and the Islamic Revolution," it added.

https://www.farsnews.ir/en/news/1401080 7000840/Iranian-Army-Says-Deermined-Revenge-Shiraz-Terrris-Aack

# Iranian intelligence minister: second terrorist behind Shiraz attack arrested

## Fars News, October 31, 2022

Iranian security forces have detained a second perpetrator involved in the fatal shooting in Shah Cheragh holy shrine in Shiraz, the country's Intelligence Minister Esmayeel Khatib confirmed on Monday. Iranian security forces on Sunday night managed to identify and detain the second suspect of the Shah Cheragh deadly attack,Khatib said. "Technical and defensive measures by the intelligence ministry" led to the arrest of the second person linked to the last week's terrorist attack on the highly revered Shah Cheragh shrine, the minister stated. "The intelligence ministry was also tipped off by people," he noted, adding that "the terrorist was arrested in Shiraz".

https://www.farsnews.ir/en/news/1401080 9000360/Iranian-Inelligence-Miniser- Secnd-Terrris-Behind-Shiraz-Aack- Arresed

# Iran warns Germany against classifying IRGC as terrorists

## i24, October 31, 2022

German foreign minister also says will join EU in imposing new sanctions on regime in Tehran amid protests. Iran on Monday warned Germany against designating the Islamic Revolutionary Guard Corps (IRGC) as a terrorist organization a day after Berlin announced that the move is being considered. On Sunday, German Foreign Minister Annalena Baerbock said that the German government along with the European Union are mulling the classification and will be imposing a new round of sanctions targeting the regime in Tehran.

https://www.i24news.to/en/news/internatio nal/ europe/1667228073-iran-warns- germanyagainst-classifying-irgc-as- terrorists

# Tajik MFA denies report about assembly of Iranian drones

Iran Repubic News Agency, October 31, 2022

The Ministry of Foreign Affairs of Tajikistan denied the report by Ukrainian blogger Dmitry Gordon that Iranian drones killing Ukrainians are assembled in Tajikistan as absolutely unfounded. According to the Asiaplus website, a statement released by Tajik MFA on October 30, in particular, says "the Republic of Tajikistan does not export military equipment to third countries." Accordingly, Tajikistan's Foreign Ministry recommends that "Dmitry Gordon henceforth carefully address such comments and verify the accuracy of the information disseminated."

https://en.irna.ir/news/84928463/Tajik- MFAdenies-report-about-assembly-of-Iranian-drones

## P. Israel

# Israel must get rid of its nuclear weapons, UNGA majority decides

The Jerusalem Post, October 31, 2022

Israel must dispose of all its nuclear weapons and place its nuclear sites under the International Atomic Energy Agency's purview, theUnited Nations General Assembly's First Committee stated in an initial 152-5 vote. The five nations that opposed Friday's resolution on the "risk of nuclear proliferation in the Middle East" were: Canada, Israel, Micronesia, Palau and the United States. Another 24 countries abstained, including European Union members. The annual resolution submitted by Egypt to the UNGA in New York was sponsored by the Palestinian Authority and 19 counties including Bahrain, Jordan, Morocco and the United Arab Emirates.

https://www.jpost.com/international/article -720993

## Q. Turkiye

# Conditions on F-16 sales to Turkiye dropped from US NDAA bill

#### Daily Sabah, October 11, 2022

Two provisions that were set to restrict the sale of F-16 fighter jets to Turkiye in the U.S. Senate version of the 2023 National Defense Authorization Act (NDAA) bill have been removed, sources said Tuesday. The U.S. Senate removed the conditions during a 2023 defense budget meeting on Tuesday. After the completion of the NDAA bill, it is expected to be merged with the House of Representatives version, which will then be submitted to President Joe Biden for approval.

https://www.dailysabah.com/business/defe nse/ conditions-on-f-16-sales-to-turkiye- droppedfrom-us-ndaa-bill

# Turkiye test-fires domestic ballistic missile over Black Sea

### Daily Sabah, October 19, 2022

Turkiye test-fired a locally made, shortrange ballistic missile over the Black Sea, media reports said Tuesday. The projectile, named Tayfun, was developed by leading Turkish missile developer Roketsan and fired from a mobile platform at an airport in the Black Sea coastal city of Rize at 6:50 a.m. (3:30 a.m. GMT), private news agency Demiroren reported. The missile flew 561 kilometers (350 miles) before falling off the coast of the port of Sinop. Though not yet confirmed by defense industry sources, the test shows the Tayfun has double the range of the country's first domestic missile system, the Bora.

https://www.dailysabah.com/business/defe nse/ turkiye-test-fires-domestic-ballistic- missile-overblack-sea

## US not only way out for Turkiye if talks on F-16 sales fail: Erdogan

#### Daily Sabah, October 21, 2022

President Recep Tayyip Erdogan on Friday said the process regarding the purchase of F-16 fighter jets was proceeding as planned, yet he reiterated that Turkiye was not without alternatives in case talks with the United States fail. "At the moment, the opinion of the (U.S.) administration is developing in a positive direction. Of course, the U.S. is not the only way out for us," Erdogan told reporters aboard his plane returning from a trip to Azerbaijan. "If necessary, as with the S-400 systems, we are negotiating alternatives outside of the United States ... We have alternatives," he stressed.

https://www.dailysabah.com/business/defe nse/usnot-only-way-out-for-turkiye-if- talks-on-f-16sales-fail-erdogan

# Erdogan says Turkey's military never used chemical weapons

## The National News, October 21, 2022

Turkey's armed forces have never used chemical weapons and they abide by

international law, according to President Recep Tayyip Erdogan. The Turkish leader said that legal action would be taken against those who have made allegations on the issue, broadcaster NTV reported on Friday. Media close to theKurdistan Workers Party(PKK) militant group published videos this week that it said showed chemical weapons being used by the Turkish army against the PKK in northern Iraq.

https://www.thenationalnews.com/mena/2 022/ 10/21/erdogan-turkeys-military-never- usedchemical-weapons/

## Erdogan may speak with Biden as F-16 talks 'go on positively'

## Daily Sabah, October 22, 2022

Negotiations with the United States on sales of F-16 fighter jets are "going on positively," President Recep Tayyip Erdogan said on Thursday, adding that he may later discuss this issue over the phone with U.S. President Joe Biden. The remarks come just two days after Erdogan said that he had received "positive" feedback from two U.S. senators he met with in New York on their potential support for the sale of F- 16s to Turkiye. Turkiye has been seeking to modernize its air fleet and sought to buy 40 F-16 jets and nearly 80 modernization kits from the U.S. Biden has said he supports the sale and that he would work to convince lawmakers to deliver the F-16 jets for Turkiye's air force.

https://www.dailysabah.com/business/defe nse/ erdogan-may-speak-with-biden-as-f- 16-talksgo-on-positively

# Turkish delegation flies to US for talks on sale of F-16 fighters

### Daily Sabah, October 27, 2022

Adelegation of members of Turkiye's ruling party departed for Washington on Tuesday to hold talks on the potential sale of the F-16 fighterjets, as the prolonged process continues to top the agenda in bilateral contacts. Officials have been expressing optimism that the deal could be finalized despite a bill approved by American lawmakers that created a new hurdle for any purchase by Turkiye. Yet, Ankara has vowed it may consider alternatives, including Russia, if the United States fails to follow through on its promise to deliver F-16s to Turkish air forces.

https://www.dailysabah.com/business/defe nse/ turkish-delegation-flies-to-us-for-talks- on-sale-off-16-fighters

## Turkish armed unmanned vessel shows naval capacities in NATO drill

#### Daily Sabah, October 27, 2022

A Turkish armed unmanned surface vehicle (AUSV) demonstrated its abilities at a recent NATO exercise in southwestern Portugal, becoming Turkiye's first such platform to join the alliance's military drill. Developed by Turkish defense pioneer Aselsan and the Sefine Shipyard in northwestern Yalova province under the coordination of the Presidency of Defense Industries (SSB), MARLIN took part in the drill with around 100 other unmanned aviation and marine vehicles. Around 20 ships were also part of the six-day exercise that began on Sunday and was named Dynamic Messenger 2022.

https://www.dailysabah.com/business/defe nse/ turkish-armed-unmanned-vessel- shows-navalcapacities-in-nato-drill

## Turkish drone powerhouse Baykar to complete Ukraine plant in 2 years

#### Daily Sabah, October 28, 2022

The Turkish defense company behind the drones, which earned fame for their critical role in several conflicts, is planning to complete the construction of its manufacturing plant in Ukraine in two years, according to its chief executive. Baykar became highly renowned for the success of its Bayraktar TB2 armed drones in conflicts in Syria, Libya, Karabakh and lastly in Ukraine, where the platforms proved to be instrumental in the country's defense against armor and anti-aircraft systems in the first few weeks of the Russian invasion. The Bayraktar TB2 unmanned combat aerial vehicle (UCAV) gained so much prominence with the public that Ukrainians composed a song about it and some allies launched unprecedented crowdfunded campaigns to buy more.

https://www.dailysabah.com/business/defe nse/ turkish-drone-powerhouse-baykar-to- completeukraine-plant-in-2-years

## In-house built engines to power Turkiye's cruise missiles

### Daily Sabah, October 30, 2022

The variety and number of Turkiye's domestic engines being delivered to carry nationally built cruise missiles to their targets have increased in recent years with work on domestic production gaining momentum as companies operating in the defense sector report receiving demand from abroad for the engines. Among those products, Turkiye's domestic turbojet engines, the KTJ-3200 and KTJ-1750 developed by Kale Group, were exhibited for the first time at the SAHA Expo Defense, Aviation and Space Industry Fair. Speaking at the fair, Kale Group Vice Chairperson and Technical Group President Osman Okyay told Anadolu Agency (AA) that they have been working on developing and producing turbojet engines for 10 years.

https://www.dailysabah.com/business/defe nse/ in-house-built-engines-to-power- turkiyescruise-missiles

## R. East Asia

# US, South Korea may hold joint air drills in response to rising North Korean nuclear threat

## CNBC, October 19, 2022

A senior US military official said the United States' aim is to continue 'to advance our shared objectives of the complete denuclearisation of the Korean Peninsula.' The United States and South Korea (Republic of Korea, or ROK) are expected to conduct joint military air drills in the Korean Peninsula towards the end of this month. The drills, the first such since 2017, are seen as a show of strength in light of an increased North Korean nuclear threat.

https://www.cnbctv18.com/world/us-south-koreamay-hold-joint-air-drills-in-response-to-risingnorth-korean-nuclear-threat-14982501.htm

# North Korea's nuclear push is a 'serious concern': U.S. official

### Nikkei Asia, October 22, 2022

North Korea's recent escalation of tensions such as missile launches and a potential nuclear test are "serious concerns," a highranking U.S. defense official said on Saturday. Ely Ratner, assistant secretary of defense for Indo-Pacific Security Affairs, reaffirmed Washington's commitment to the complete denuclearization of the Korean Peninsula in a virtual speech at the Mount Fuji Dialogue in Tokyo. South Korea's intelligence agency says North Korea could carry out its seventh nuclear test - its first since 2017 - before the U.S. midterm elections on Nov. 8. According to Japan's defense ministry, North Korea has launched at least 13 ballistic missiles since Sept. 25, with one flying over northern Japan on Oct. 4.

https://asia.nikkei.com/Politics/Internationalrelations/Indo-Pacific/North-Korea-s-nuclearpush-is-a-serious-concern-U.S.-official

## The Case for South Korea to Go Nuclear

#### The Diplomat, October 22, 2022

North Korea's nuclear and missile threats against South Korea and the United States have continued to escalate significantly. Against the backdrop of these serious nuclear threats, both Seoul and Washington should be prepared for the worst-case scenario, which is a nuclear war with North Korea. In April, North Korea announced its intention to forward-deploy tactical nuclear weapons, and in September Pyongyang adopted a new nuclear policy law, which allows the country to carry out a preemptive nuclear strike against South Korea. From the end of September to early October, North Korea's "tactical nuclear operation units" conducted launching drills of missiles designed to strike potential South Korean targets such as airfields, ports, and command facilities.

https://thediplomat.com/2022/10/the-case-forsouth-korea-to-go-nuclear/

## **Experts: North Korea's Expected Nuclear Missile Test Likely to Involve Miniature Warheads**

### VOA News, October 25, 2022

Experts anticipating a North Korean nuclear test are saying the event would likely involve miniaturized nuclear warheads designed to fit cruise missiles that can target South Korea. The explosive power would be similar to that of the nuclear bombs the U.S. dropped on the Japanese cities of Hiroshima and Nagasaki in August 1945 to end World War II, experts said. On Tuesday, South Korean President Yoon Suk Yeol, speaking before the National Assembly, said North Korea has completed preparations for the seventh test. State nuclear Department Spokesperson Ned Price said Monday the U.S. is "preparing for all contingencies" to deal with "the potential for another North Korean nuclear test."

https://www.voanews.com/a/experts-northkorea-s-expected-nuclear-missile-test-likely-toinvolve-miniature-warheads-/6805278.html

## South Korean Official Calls for Shift in Its Nuclear Policy

#### Bloomberg, October 26, 2022

A South Korea official has suggested a shift in focus of the country's policy to place more emphasis on deterring North Korea from using its growing arsenal of nuclear weapons instead of concentrating solely on reversing their development, Yonhap reported. Defense Minister Lee Jong-sup said Wednesday that his country should work to deter the use of nuclear weapons by sending North Korea a message it would bring an end to Kim Jong Un's regime.

https://www.bloomberg.com/news/articles/2022-10-26/south-korea-official-urges-shift-on-northkorea-nuclearpolicy?leadSource=uverify%20wall

### Financial Times, October 26, 2022

The United States, South Korea and Japan have warned North Korea that any resumption of its nuclear device testing will be met with an "unparalleled" response. The threat, issued after the close of a trilateral meeting of Japanese, American and South Korean vice foreign ministers in Tokyo, reflects mounting concern that Pyongyang is preparing to carry out before the end of this year a controlled nuclear explosion, its first since 2017. Such a weapons test would represent the seventh conducted by North Korea since it initially demonstrated its nuclear capability to the world in 2006. Despite the ferocity of verbal protests that have followed each successive detonation, Pyongyang has continued undeterred.

https://www.ft.com/content/73342433-ce3e-466fb22f-c33bbefaa709

# Analysis: U.S. and allies turn to deterring war with North Korea as options for preventing nuclear tests dwindle

### Reuters, October 31, 2022

The prospect of a new North Korean nuclear test underscores the limited options for Washington and its allies, who have embraced "deterring" Pyongyang through major military drills that some current and former officials say may exacerbate tensions.

https://www.reuters.com/world/us-allies-turndeterring-war-with-north-korea-options-preventing-nuclear-tests-2022-10-31/

## S. Opinion

# Launch of missile from Arihant a milestone. But India's nuclear triad isn't complete yet

### The Print, October 18, 2022

Operating covertly from the depths of the ocean and striking with nuclear weapons is the leitmotif of Ship Submersible Ballistic

Nuclear or SSBN submarines. Such capability was demonstrated by India on 14 October this year in the firing of the nuclear-capable missile, Sagarika/K-15, from its first SSBN, the INS Arihant. The submarine was launched in July 2009, with sea trials commencing in December 2014, and was commissioned into the Indian Navy in August 2016. It undertook its first deterrence patrol in 2018, soon after the K-15 missile was first test-fired from the submarine. The latest missile firing certainly marks another milestone in India's quest to strengthen its nuclear triad's crucial sea leg, which is represented by the SSBN. It is considered the most survivable element of the triad in contrast to land and aircraft-based nuclear weapons as they cannot be anywhere near the SSBN capability to remain hidden.

https://theprint.in/opinion/launch-of-missilefrom-arihant-a-milestone-but-indias-nucleartriad-isnt-complete-yet/1171365/

## **Contribute** Articles

Indian Pugwash Society welcomes research articles from students, researchers and faculties on Space, Missile, nuclear technology, WMD proliferation, arms control, disarmament, export controls and other related issues. Articles should be crisply written and should address contemporary debates in the policy arena. Manuscripts submitted for the consideration of the Indian Pugwash Society should be original contributions and should not have been submitted for consideration anywhere else. For further assistance, please contact us at : indianpugwashsociety@gmail.com

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