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Technology and Innovation For some, the word 'impossible' ends discussions. For us, it's a starting point.One of Fortunes Most Innovative Companies Were Defining Possible Every DayAs a national resource, our industry plays a critical role in supporting the warfighter to maintain global and economicstability and protect the security of America and its allies.Sustaining American military superiority demands more than words aloneit requires continuous innovation, industrialreadiness, and collaborative partnerships. These are the defining strengths of Northrop Grummans proven andindispensable role in equipping and protecting Americas warfighters.In the modern era, superiority isnt defined by stockpiles alone its defined by capabilities so advanced, so unassailable,that they alter how adversaries calculate the risk of conflict, so aggression is prevented before it even starts. Fortunately, the United States possesses a powerful defense industrial base that unites the trusted expertise of establishedleaders with the fresh thinking of new partners. This ecosystem is a strategic national resourceone that has kept the U.S. at the forefront of global military capability. Andits how America will stay ahead of whatever comes next. As an innovation leader and a cornerstone of Americasdefense manufacturing base, Northrop Grumman doesnt just imagine breakthrough capabilities we invent and buildthem.We create the technologies that define modern warfare and our expertise is consistently sought out by industry partnerswho turn to Northrop Grummans unique expertise to transform bold ideas into operational realities. Thats how we build real systems that provide real defense. Our satellites see what others cant. Our 6th Generation aircraftcan go where others wont. Our technologies set the pacing threat, leading the way where others with less expertise andexperience hesitate.Yes, our work is complex. But our purpose is simple: to protect the nation, push the boundaries of whats possible, andensure the U.S. and its allies stay aheadtechnologically, strategically, and decisively.Everything we do is focused on one goal: keeping Americas global leadership secure and maintaining peace throughundeniable strength.As an American manufacturer and trusted innovator, we build, test and field capabilities faster to respond to current and emerging needs. There are numerous benefits to developing and manufacturing technologies domestically. For our customers, this can shorten lead times, increase cost savings, provide more opportunities for oversight and enhanced security as well as supply chain resilience. With nearly 100,000 employees and over 30 million square feet of manufacturing space we have the capacity, scale, and agility to drive innovation at unprecedented speeds. Our manufacturing approach isnt just about flawless production, it was developed to accelerate and enhance the entire process from design and development to production and testing. Weve invested in U.S. infrastructure, R&D, our workforce, and our supply chain to deliver the national security needs of today and for tomorrow. By Kate Mauss and Katelynn JoynerNorthrop Grumman delivers world-changing technology, built on its rich legacy of designing and manufacturing innovative solutions for the future. The company has the capacity needed to meet the demands of today and the ability to scale to meet future national security needs. Heres how Northrop Grumman is furthering American manufacturing strength for the American warfighter. Investing Heavily in the Future: $13.5 Billion Infusion. In the past five years, Northrop Grumman has invested $13.5 billion in U.S. infrastructure and research and development. This investment isnt just about numbers; its about establishing robust manufacturing facilities nationwide that will create a legion of American jobs, powering economic and defense capabilities. Expanding Production Capabilities: $1 Billion in Facilities. In a bold move to expand production capabilities, the company has invested over $1 billion alone in multiple facilities across multiple states over the past six years. This strategic investment bolsters Northrop Grummans ability to produce weapons and missile components, including essential solid rocket motors. Delivering Unmatched Manufacturing Scale: 30 Million Square Feet. With over 30 million square feet of manufacturing space, Northrop Grumman has the scale and agility to drive innovation at unprecedented speeds. This expansive capacity allows for rapid adaptation and deployment of next-generation technologies. Leading Propulsion Innovation: 1.3 Million Solid Rocket Motors. With more than six decades of flight-proven propulsion, Northrop Grumman is an industry-leading provider of solid rocket motors for critical U.S. strategic weapons systems, the civil space industry, and commercial launch service providers. To date, the company has delivered over 1.3 million solid rocket motors. Produced in Utah, West Virginia and Maryland, our solid rocket motorsare in continuous production, while the team simultaneously designs revolutionary new capabilities to meet evolving demands. Pioneering Microelectronics: One Million Microchips Annually. Across the companys microelectronicsfoundries in California, Maryland and Florida, Northrop Grumman produces more than one million microchips annually. This includes the worlds fastest terahertz microchip operating at 1,000 times faster than the average smartphone. Northrop Grumman is the only defense company with two secure foundries and an advanced packaging facility on U.S. soil. Powered by Human Capital: A Workforce Thats 100,000 Strong. Northrop Grummans ability to scale production and deploy new capabilities is underpinned by its nearly 100,000 employees across multiple functions. Our workforce has facilities in all 50 states and work in some of the most cutting-edge manufacturing facilities and engineering design labs worldwide. Building a Robust Supply Chain: 12,000 Suppliers. Designed to support with the scale and speed todays defense industry requires, our performance-driven ecosystem boasts a network of nearly 12,000 suppliers, primarily based in the United States. This robust supply chain ensures Northrop Grumman can deliver advanced, affordable and interoperable technologies to meet the mission needs of the customer. Delivering Advanced Manufacturing: One Fuselage Every 30 Hours. At the company's F-35 Center Fuselage Integrated Assembly Line in Palmdale, California, Northrop Grumman delivers one center fuselage every 30 hours. This groundbreaking work is an example of one of the most advanced manufacturing facilities ever assembled to produce military aircraft, using automated technology coupled with the strengths of humans and machines to produce for all three variants of this fifth-generation fighter. With nearly 100,000 employees and over 30 million square feet of manufacturing space more than 500 football fields we have the capacity, scale, and agility to drive innovation at unprecedented speeds. Our manufacturing approachisnt just about flawless production, it was developed to accelerate and enhance the entire process from design and development to production and testing. Weve invested in U.S. infrastructure, R&D, our workforce, and our supply chain to deliver the national security needs of today and for tomorrow.

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For more than 20 years, Northrop Grumman Australia has been a proud strategic partner of the Australian Defence Force, delivering world-leading capabilities and support services to safeguard Australias national interests, ensure mission success, respond to emerging strategic challenges and shape the future battlespace.Go to Northrop Grumman in AustraliaCompany logo used from 1994 to 2020The assembly line for Northrop P-61 Black Widows at the Northrop plant in Hawthorne, California, in World War II. Center wings and fuselages take shape on the left, with more nearly finished airplanes on the right.[6] Northrop Grumman can trace its lineage back to the beginning of the 20th century when the Grumman Corporation was founded on Long Island, New York. Here, Leroy R. Grumman established the Grumman Aircraft Engineering Corporation in December 1929.[7] By 1939, the company has expanded and relocated to Bethpage, New York.[7] During World War II the company built most US Navy aircraft. After the war it branched out into making the first aluminum canoes using left-over materials no longer needed for aircraft. Later the firm created a myriad of products such as ballistic missiles, all-weather radars, the Apollo Lunar Module, land and sea-based fighter aircraft and Stealth bombers.[8] Founded in California in 1939 by Jack Northrop, the Northrop Corporation was reincorporated in Delaware in 1985.[9] Northrop made a series of light-weight fighter aircraft such as the F-5, YF-17, and F-20. However, Northrop was best known for its experimental flying wing aircraft, the XB-35 and YB-49 of the late 1940s and early 1950s. These flying wing aircraft, while unsuccessful, would pave the way for the B-2 Spirit Stealth Bomber, on which Northrop was the prime contractor.[10][11] After the end of the Cold War, Northrop made a series of acquisitions, buying Grumman Aerospace, Westinghouse and TRW Inc. in addition to a number of other enterprises.[8] In 2018, Northrop Grumman completed the purchase of Orbital ATK, which has since been renamed to Northrop Grumman Innovation Systems. Northrop Grumman is one of the largest defense contractors in the world.[12][13] In 1994, Northrop Aircraft bought Grumman Aerospace, which built the Apollo Lunar Module[14] to create Northrop Grumman (NG) at a cost of $2.1 billion.[15] The company purchased the remaining 51% interest in Vought Aircraft Company (Vought) in August 1994 for $130 million taking full control of the company after it had purchased an initial 49% interest in September 1992 for $45 million.[citation needed] In 1996, the new company acquired substantially all of the defense and electronics systems business of Westinghouse Electric Corporation, Westinghouse Electronic Systems, a major manufacturer of radar systems, for $2.9 billion,[16] and Xetron Corporation. In 1997, the defense computer contractor Logicon was added, which had acquired Geodynamics Corporation in March 1996 and Syscon Corporation in February 1995.[17][18] Northrop was the prime contractor on the radical YF-23 which was one of two candidates for the Advanced Tactical Fighter but would eventually lose to the F-22 Raptor.[19] Northrop partnered with Lockheed on the F-35 and serves as a principal member of the Lockheed Martin industry led team.[20] In 1998, a merger between Northrop Grumman and competitor Lockheed Martin was considered but abandoned after resistance from the Department of Defense and Department of Justice.[21] That same year, it acquired Inter-National Research Institute Inc. In 1999, the company acquired Teledyne Ryan, developer of surveillance systems and unmanned aircraft, California Microwave, Inc., and the Data Procurement Corporation.[22][23][24] On March 19, 1999, Northrop Grumman revised its fourth-quarter results to a net loss because of problems related to its dealings with start-up satellite launch company Kistler Aerospace Corp.[25][vague] In 1999, Northrop Grumman and SAIC created AMSEC LLC as a joint venture, which grew "from $100 million in revenue in 2000 to approximately $500 million in fiscal year 2007."[26] Northrop-Grumman DARPA Quiet Supersonic Platform (QSP) 2002 concept for a long-range supersonic cruise aircraft with a less intense sonic boom[27] In 2000, NG acquired Federal Data Corporation, Navia Aviation As, Comptek Research, Inc., and Sterling Software, Inc.[28] In 2001, the company acquired Litton Industries, a shipbuilder and defense electronics systems provider for the U.S. Navy.[29] During the acquisition process, a new Delaware holding company, NNG, Inc., was formed, which merged with Northrop Grumman through a one-for-one common shares exchange in April 2001. Both Northrop Grumman and Litton became subsidiaries of the new holding company. The original Northrop Grumman Corporation then changed its name to "Northrop Grumman Systems Corporation"; the holding company, NNG, Inc., changed its name to "Northrop Grumman Corporation". Later that year, Newport News Shipbuilding was added.[30] On November 1, 2001, Northrop Grumman restated its third-quarter profit after halting work on two ships for American Classic Voyages, which filed for bankruptcy protection.[31] In 2002, Northrop Grumman acquired TRW Inc.,[32] which had acquired Braddock Dunn & McDonald (BDM) in 1997, and became the Space Technology sector based in Redondo Beach, California, and the Mission Systems sector based in Reston, Virginia, with sole interest in their space systems and laser systems manufacturing.[33] The Aeronautical division was sold to Goodrich, and the automotive divisions were spun off and retained the TRW name.[34] There were 15 acquisitions from 1994 to 2003.[citation needed] Northrop Grumman partnered with EADS from the mid-2000s to offer the KC-30 Multi Role Tanker Transport aircraft[35] in the U.S. Air Force's KC-X tanker competition.[36] In February 2008 the U.S. Air Force chose KC-30,[37] but in September 2008 the Defense Department suspended the tanker program and in March 2010, Northrop Grumman announced it was withdrawing from the competition, deeming the revised requirements to be weighted in favor of the Boeing KC-46.[38] In July 2003, the company received a $48 million contract to train the Iraqi Army.[39] In August 2005, the United Kingdom paid $1.2 billion in a contract with the company to provide maintenance of its AWACS radar.[40] In November 2005, the company won a $2 billion contract with Virginia to overhaul most of the state's IT operations.[41] On January 1, 2006, Northrop Grumman opened its business sector called 'Technical Services'.[42] Northrop Grumman and Boeing collaborated on a design concept for NASA's upcoming Orion spacecraft (previously the Crew Exploration Vehicle), but the contract went to rival Lockheed Martin on August 31, 2006.[43] In 2006, Northrop Grumman had intended to bid for the U.S. Air Force's Next-Generation Bomber. Though it has not built a large manned aircraft since wrapping up B-2 Spirit production in the 1990s, the company has "been working hard to turn that perception around, with the skills and capabilities that back it up."[44] However, by 2009, the teams working on that project were dispersed, as USAF's focus turned to a long-range strike instead. Northrop Grumman was one of two teams competing for the Long Range Strike Bomber, and in October 2015 won the contract for the Long Range Strike Bomber.[45][46] On July 20, 2007, Northrop Grumman became the sole owner of Burt Rutan's Scaled Composites.[47] In 2007, Northrop Grumman created 'National Workforce Centers' as an alternative to offshoring.[48] Locations are Auburn, Alabama; Corsicana, Texas; Fairmont, West Virginia; Helena, Montana; Johnstown, Pennsylvania; and Lebanon, Virginia. The Rapid City, South Dakota location closed in January 2012.[49] In August 2007, Northrop Grumman acquired Scaled Composites in which it had previously owned a 40% stake.[50] In June 2008, Northrop Grumman began working with DHS Systems LLC, manufacturer of the Deployable Rapid Assembly Shelter (DRASH) in New York, as part of the U.S. Army's Standard Integrated Command Post System program.[51] In July 2008, three of four Northrop Grumman employees (Thomas Howes, Marc Gonsalves and Keith Stansell) were freed during Operation Jaque after five years of captivity following their aircraft crash in the Colombian jungle. The fourth employee, Tom Janis, had been killed by the FARC shortly after the crash in 2003.[52] Rendering of the $8.7B James Webb Space Telescope In January 2008, Northrop Grumman combined its Newport News and Ship Systems sectors into a new business unit named Northrop Grumman Shipbuilding.[53] On March 31, 2011, this was spun off as Huntington Ingalls Industries, Inc. (NYSE:HII).[54] In November 2010, NASA selected Northrop Grumman for consideration of potential contract awards for heavy lift launch vehicle system concepts, and propulsion technologies.[55] From 2013, Northrop Grumman participates in the DARPA Tactically Exploited Reconnaissance Node (TERN) program, and received $2.9 million for Phase 1[56] and $19 million for Phase 2.[57][58][59] The TERN program attempts to launch and recover a UAV from mid-size ships to provide long distance intelligence gathering.[60] In July 2013, Northrop Grumman won a training-simulation contract potentially worth $490 million to support the U.S. Air Force's next-generation aerial warfare virtual-training network.[61] In March 2015, the company delivered the first shipset for Australian EA-18G Growler.[62] In October 2015, the US Military awarded Northrop Grumman the contract for the successor to the B-1 and B-52, subsequently identified as the B-21. The initial value is $21.4 billion, and could eventually be worth up to $80 billion.[63] In September 2017, Northrop announced the acquisition of missile and rocket manufacturer Orbital ATK Inc for $9.2 billion: $7.8 billion in cash plus $1.4 billion in net debt.[64] On November 29, 2017, the acquisition was approved by Orbital ATK stockholders[65] and on June 6, 2018, the merger closed after final FTC approval. The acquired company assets and naming were absorbed and become a division named Northrop Grumman Innovation Systems.[66] In January 2018, Northrop Grumman became the primary contractor for the James Webb Space Telescope.[67][68] On June 7, 2018, the acquisition of Orbital ATK was completed, and it was absorbed in Northrop Grumman as a new business sector called Northrop Grumman Innovation Systems.[69][70] Effective January 1, 2020, the NGIS division was split, with most of the sector merging with other Northrop Grumman businesses into a new Space Systems sector.[71][72] In June 2020, NASA granted a $935 million contract to Northrop Grumman for the Lunar Gateway Habitation and Logistics Outpost (HALO) module, based on its Cygnus cargo spacecraft.[73] In July 2022, Northrop subcontracted Solstar to provide the wireless-enabling technology to enable a Wi-Fi access for employees and equipment in the module.[74][75] In September 2020, Northrop ended development of the OmegA space launch vehicle, intended to carry the U.S. government's national security satellites into space.[76] In September 2020, Northrop Grumman won a $298 million sole-source contract for the Evolved Strategic Satcom program, an anti-jam communications satellite program intended to replace the Advanced Extremely High Frequency (AEHF) satellite program where Northrop Grumman was a subcontractor to Lockheed Martin.[77][78] In February 2021, Northrop sold its federal IT and mission support business to Veritas Capital for $3.4 billion in cash. Veritas placed the group into its Peraton subsidiary.[79][80] The Mars Ascent Propulsion System for Mars sample-return mission Ascent Vehicle contract was awarded to Northrop Grumman on March 5, 2021. For this Northrop Grumman to make a 3meter long, two-stage, solid-fueled Mars ascent rocket for the Mars Sample Return mission. This mission is to collect Perseverance's samples for return to Earth.[81] Antares rocket (left); Cygnus spacecraft (right) held by ISS Canadarm2In August 2022, Northrop Grumman announced it was moving production of the engines and structures for its Antares rockets to the U.S. from Russia and Ukraine. The move of Antares production fully to the U.S. will happen through a partnership with Texas-based Firefly Aerospace. Northrop Grumman had purchased Russian RD-181 engines to power the Antares 230+ series, and the rockets main body was manufactured by Ukraines Yuzhmash State Enterprise.[50] The new arrangement mainly resolves the break in Antares manufacturing caused by Russia's invasion of Ukraine in February 2022. But in addition to salvaging the Antares rocket series, the cost-sharing deal also helps ensure NASA's cargo missions to the International Space Station keep flying regularly and brings muscle to Firefly's plan to build a larger rocket called Medium Launch Vehicle (MLV).[82] Northrop Grumman and Firefly Aerospace will jointly produce an upgraded version of the Antares rocket, which will be known as the Antares 330. Northrop will provide the A330s upper stage, avionics, software and launch site operations. Firefly will supply seven engines and build the A330s largest structure, the first stage booster. Northrop and Firefly will also jointly develop the MLV.[82] Northrop Grumman's B-21 Raider is forecasted to be operational as early as 2030.[83] In October 2023, taxi tests for the B-21 Raider were underway.[84] On September 15, 2023, Northrop Grumman was sanctioned by the Chinese government due to U.S. arms sales to Taiwan.[85] In May 2024, Northrop Grumman unveiled the Manta Ray, an underwater drone developed for the Defense Advanced Projects Research Agency (DARPA). The drone, which resembles its namesake sea creature, was designed to carry out long-duration, long-range military missions, including extended loitering on the sea bottom. The development of the Manta Ray posed several technical challenges, including overcoming the corrosive nature of seawater, preventing sea life from interfering with moving components, and operating under conditions where electromagnetic radiation, including sunlight, does not propagate well.[86] The craft uses two four-bladed propellers on the wings to enhance the propulsion provided by its gliding system, which glides forward while moving up and down in the water column by changing its buoyancy.[87] With an emphasis on minimal human oversight, the creation of the Manta Ray represents a significant advancement in unmanned underwater vehicles (UUV) technology.[86] In September 2024, Northrop Grumman won the U.S. Missile Defense Agency (MDA) competition to develop and build the Glide Phase Interceptor (GPI).[88] We are committed to advancing global security and human discovery in support of our customers missions around the world. We do so by providing leading technology and national security solutions and services to markets around the world.Northrop Grumman continues to expand and broaden our presence in global markets and strengthen our partnerships with local industry. In addition to the United States, our focus countries are Australia, the United Kingdom, Japan, South Korea and the Middle East.Global Presence

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