2021 Industry Trends + 2022 Outlook Aerospace & Defense | High Tech | Automotive & Logistics

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Executive Summary | Aerospace & Defense, High Tech, Automotive & Logistics



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Aerospace & Defense

Aerospace & Defense | Key Trends



Acquisition and Contracts - Al battlefield, unmanned defense systems, hypersonic tech



Trends show the government directly engaging with medium-scale suppliers, bypassing Tier 1 suppliers.





Rise in nuclear-based design and exploration, with more contracts and acquisitions.



Defense antennas are seeing deployment, with a polarized antenna array by TiaLinx and Thales' fully digital radar with active antenna.



Electric aviation is accelerating its development in propulsion technologies using hydrogen fuel

Space station technologies that were launched included features such as radiation protection, pressurized module launch, and urban air mobility infrastructure.



Space-based simulator platforms and transport technologies are the key focus.



Novel EVTOL designs were launched like high-speed VTOL, tilt wing design, and hydrogen testing on military trucks



To democratize access to space mobility technology, the Hardware-asa-Service model was launched.

Developments in space-based technologies include Earth observation, plasma thrusters, and quantum-based antennas.



Significant developments in SAR technologies include the world's first wide area imaging for persistent monitoring and the longest solar tracker.



\$61 billion worth of deals through August 31, 2021



January

Partnership - Commercial space activities

April

General Atomics, Blue Origin, and Lockheed Martin partner for nuclear space propulsion

July

L3Harris Technologies' military training business

July

Partnership - Air taxi pilot training program

September

Partnership - Pilot safety and fuel cell technologies

November

Acquisition - Advanced space electronics supplier



January

Prime contractor designation on **\$3.3 billion** for global support strategy

January

\$1.28 billion Undefinitized contract action (UCA) to support operations

January

S4.9 billion for missile warning satellites

March

\$2 Billion Ceiling air force base modernization contract

March \$12.6 billion DIA SITE III IT

support contract

April \$2.2 billion

\$2.2 billion for naval nuclear reactor components and fuel

Innovation to drive 2022



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High Tech

High Tech - Key Trends



Cross-functional mergers and partnerships are starting to rise for better utilization and development of technologies.



Companies like Google and Intel shed their part of AI and in-house development business. Firms such as IBM and ATOS are shifting gears toward cybersecurity and cloud development through mergers and acquisitions.



Supercomputer announcements regarding major developments from HPE, Intel, and Google have surfaced in the past few weeks.



Healthcare technology is being adopted in different practices, with novel entrants to the space.



Supply chain traceability is among the most sought-after solutions by OEMs to reduce the bullwhip effect and increase optimization..



Warehouse-related AI is being implemented with new SaaS offerings and increased robotic integration.



There's a special focus on monitoring systems and diagnostic technologies backed by artificial intelligence and machine learning.

Cybersecurity becoming a key focus area especially in the defense and medical industries



Semiconductor product development in NLP and quantum computing are on the rise.) e

Increased cross collaboration between Artificial Intelligence and Robotics, with a focus on the food processing industry.



Increased Mergers and Acquisitions to develop niche capabilities

Partnerships | Contracts



January \$1.4 billion acquisition deal

with chip startup NUVIA

February

\$730 million cloud communications software and services deal

May

\$6.5 billion in identity authentication software

May

Partnership - autonomous cyber defense across the cloud

July

Data and hybrid cloud consulting services

July

Acquisition - \$850 million business texting startup



April

Small Business Innovation Research (SBIR) program

July SBIR contract for supercomputing

October

Continuous authentication for remote access

November

Support for the JAIC in its mission to transform the DoD

March Advanced chips

Innovation to drive 2022



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Automotive & Logistics

Automotive & Logistics - Key Trends



Supply Chain and Technology to drive 2022



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Potential Next Steps

- PreScouter can conduct anonymous interviews with companies profiled to help you learn more about their technologies, processes, and partnership potential.
- PreScouter can identify the intellectual property position of these players and understand patent trend evolution.
- PreScouter can identify additional suppliers located in specific regions to source products and other services.



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An Overview of Drone &

EVTOL Regulations