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CHRONICLE OF DIGITAL TRANSFORMATION (DT) THROUGH INTERNET OF THINGS

TECHNOLOGIES (IoT in Context)
Some biweekly perspectives on DT
from around the globe gathered by
CDAIT - 50 added for this Digest
(3750 entries since April 1, 2022)
https://cdait.gatech.edu/sites/default/files/2025-06/Digital_Transformation_Through_IoT_Technologies_as-mid-June-2025.pdf

GOVERNANCE & THE INTERNET OF THINGS

Rajprasath Subramanian, "How
emerging technologies are
redefining enterprise
architecture," CIO, June 13, 2025
<https://www.cio.com/article/4005959/how-emerging-technologies-are-redefining-enterprise-architecture.html>

Homeland Security Today posting,
"FBI Issues Announcement
Regarding New Internet of Things
Exploitation," Homeland Security
Today, June 10, 2025
<https://www.hstoday.us/subject-matter-areas/cybersecurity/fbi-issues-announcement-regarding-new-internet-of-things-exploitation/>

Billy Mitchell, "The new IoT and OT
guidance are expected sometime
in September, DOD's zero-trust
sherpa Randy Resnick said,"
Defensescoop, June 6, 2025
<https://defensescoop.com/2025/06/06/dod-zero-trust-guidance-iot-ot-operational-technology/>

Guy Ferdokow and Thomas Hardjono,
"Disaster Awaits if We Don't
Secure IoT Now," IEEE Spectrum,
June 2, 2025
<https://spectrum.ieee.org/iot-security-root-of-trust>

David Mierau, "Why Industry 4.0
can't succeed without operational
efficiency," Smart Industry, June 2,
2025
<https://www.smartindustry.com/benefits-of-transformation/digital-transformation/article/55294101/why-industry-4-0-cant-succeed-without-operational-efficiency>

Analytics Insight White Paper, "IoT
Sensors: The Core of Modern
Smart Technology Systems,"
Analytics Insight, June 2, 2025
<https://www.analyticsinsight.net/white-papers/iot-sensors-the-core-of-modern-smart-technology-systems>

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Biweekly IoT News Digest (06/25 – 1)

IoT News and Market Reports

(First Half of June 2025)

- Selected IoT-related announcements and featured activities/topics gathered by CDAIT from governments; agencies; consortia; alliances; associations; standards, research and other similar groups around the world – 15 entries: https://cdait.gatech.edu/sites/default/files/2025-06/IoT_News_Filings_June_2025_First_Half.pdf
- Sample list of IoT-related market reports gathered by CDAIT – 50 entries: https://cdait.gatech.edu/sites/default/files/2025-06/IoT_Market_Reports_June_2025_First_Half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- He, Yuheng, Chinaza Ogbonna, Sree Adinarayana Dasari, Luke A. Beardslee, and Nima Ghalichechian, "A Bioresorbable Backscatter Sensor," In 2025 IEEE International Conference on RFID (RFID), pp. 1-5. IEEE, Date Added to IEEE Xplore: May 28, 2025 <https://ieeexplore.ieee.org/abstract/document/11015510>
- Joshi, Marvin, Kexin Hu, Charles A. Lynch, and Manos M. Tentzeris, "Toward 5G Wireless Power Harvesting: A Promising Broadband Equiconvex Lens-Integrated mmWave Harvester for Smart City Environments," IEEE Microwave and Wireless Technology Letters (Date of Publication: May 28, 2025) <https://ieeexplore.ieee.org/abstract/document/11017365>
- Fei, Yiyun, Mulang Song, and Roger J. Jiao, "AI-assisted Intelligent Discrete Event Simulation Platform for Manufacturing Systems," Proceedings of the 15th International Conference on Industrial Engineering and Operations Management, Singapore, February 18-20, 2025 <https://ieomsociety.org/proceedings/singapore2025/432.pdf>

OF NOTE: Mai Tao, "Emerging Trends in IoT and its Impact on Electronics," Robotics and Automation News, June 2, 2025 <https://roboticsandautomationnews.com/2025/06/02/emerging-trends-in-iot-and-its-impact-on-electronics/91380/> -- See also potentially impacting IoT: Om Gupta, "What exactly is 'Vibe Coding,' and why is it causing a stir within the IT sector?" India TV News, June 11, 2025 <https://www.indiatvnews.com/explainers/what-exactly-is-vibe-coding-and-why-is-it-causing-a-stir-within-the-it-sector-2025-06-11-994174>

Special Reading Suggestions

- Ian Verhappen, "IIoT connection considerations," Control, June 13, 2025 <https://www.controlglobal.com/network/wireless/article/55297068/what-to-consider-when-incorporating-iiot-connections>
- James Blackman, "IoT to more than double over next decade – as "major demand centre"," RCR Wireless News, June 12, 2025 <https://www.controlglobal.com/network/wireless/article/55297068/what-to-consider-when-incorporating-iiot-connectionshttps://www.rcrwireless.com/20250612/internet-of-things/iot-double-transforma>
- Connor Jones, "Peep show: 40K IoT cameras worldwide stream secrets to anyone with a browser," The Register, June 10, 2025 https://www.theregister.com/2025/06/10/40000_iot_cameras_exposed/
- John Bailey, "The Intelligence of Things Is Here—Reflections from Google I/O 2025," AEI, June 4, 2025 <https://www.aei.org/technology-and-innovation/the-intelligence-of-things-is-here-reflections-from-google-i-o-2025/>
- Education Times posting, "IEEE World AI IoT Congress 2025 organized by IEM [Institute of Engineering & Management, Seattle, Washington] and UEM [University of Engineering and Management, Kolkata, India] in Seattle, Washington, USA," Education Times, June 3, 2025 <https://www.educationtimes.com/article/featured-article/99738574/ieee-world-ai-iot-congress-2025-organized-by-iem-and-uem-in-seattle-washington-usa> -- If field is of interest see also: AIoT 2025 "IEEE Annual Congress on Artificial Intelligence of Things (IEEE AIoT)," on 3-5 Dec 2025 in Osaka, Japan <https://www.ieee-aiot.org/2025/>
- Jim Frazer, "How LTE-M and NB-IoT Are Revolutionizing Asset Tracking in Global Supply Chains," Logistics Viewpoints, June 2, 2025 <https://logisticsviewpoints.com/2025/06/02/how-lte-m-and-nb-iot-are-revolutionizing-asset-tracking-in-global-supply-chains/>
- Mónica Fernández Bové, "How IoT is Transforming Digital Signage in Retail," Retail Touchpoints, June 2, 2025 <https://www.retailtouchpoints.com/features/executive-viewpoints/how-iot-is-transforming-digital-signage-in-retail>
- Alper Yegin, "IOTSWC 2025: IoT is here, working and scaling fast," Electronics 360, June 2, 2025 <https://electronics360.globalspec.com/article/22379/iotswc-2025-iot-is-here-working-and-scaling-fast>
- Subind Kumar, "IoT is making homes smarter and safer," Financial Express, June 2, 2025 <https://www.financialexpress.com/opinion/iot-is-making-homes-smarter-and-safer/3865066/>

Selected IoT Perspectives The Internet of Things in Aviation

"IoT has transformed airlines' monitoring and management of their equipment much more efficiently. From the engines to avionics systems, IoT sensors continuously collect real-time data that supports the monitoring of health and performance regarding air carriers. With this data at hand, airlines can structure maintenance schedules, predict component failures and minimise unforeseen downtime." Eric Bearton, "IoT and AI in aviation: reducing downtime and enhancing performance," International Airport Review, July 31, 2024 <https://www.internationalairportreview.com/article/224540/iot-and-ai-in-aviation-reducing-downtime-and-enhancing-performance/>

- Dr. Sasiharan Murugan, "Revolutionizing Aviation: The Strategic Impact of IoT in the Aviation Industry," LinkedIn, June 3, 2025 <https://www.linkedin.com/pulse/revolutionizing-aviation-strategic-impact-iot-industry-murugan-vnfwc>
- Nayan Sharma, "Use Cases, Benefits and Roadblocks to Harnessing IoT in Aviation," AppInventiv, May 08, 2025 <https://appinventiv.com/blog/iot-in-aviation/>
- Christian Charalambous, "Smart Skies: How IoT is transforming aircraft maintenance and operations," AeroTime, January 17, 2025 <https://www.aerotime.aero/articles/smart-skies-how-iot-is-transforming-aircraft-maintenance-and-operations>
- Dr. Vandana Singh, "The evolution of smart manufacturing in aviation: Enhancing efficiency and reducing costs through industry 4.0 technologies," Manufacturing Today, September 11, 2024 <https://www.manufacturingtodayindia.com/the-evolution-of-smart-manufacturing-in-aviation-enhancing-efficiency-and-reducing-costs-through-industry-4-0-technologies>
- Solange Leandro and Liam Clozier, "The EU Data Act: when Aviation meets the Internet of Things," Watson Farley & Williams, April 8, 2024 <https://www.wfw.com/articles/the-eu-data-act-when-aviation-meets-the-internet-of-things/>

Research background info (sample): Awe, Ya Neneh, Umit Hacıoglu, and Melike Zehir, "Industry 4.0 technologies revolutionizing the civil aviation sector: e-services technology adoption in aviation industry," International Journal of Business Ecosystem & Strategy (2687-2293) 7, no. 1 (2025): 67-81 <https://bussecon.com/ojs/index.php/ijbes/article/view/793>; Sudhakar, Kakarlamudi VS, N. M. Deepika, Prerana N. Khairnar, P. Satish Kumar, Bindal, P. S. Ranjit, and Jelena Franjkovic, "Predictive Maintenance Using AI and IoT in Aerospace Engineering," Recent Trends In Engineering and Science for Resource Optimization and Sustainable Development (2025): 19-22 <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003596721-5/predictive-maintenance-using-ai-iot-aerospace-engineering-kakarlamudi-sudhakar-deepika-prerana-khairnar-satish-kumar-amit-kumar-bindal-ranjit-jelena-franjkovic>; Shi, Guang, Fang Hu, and Yue Liu, "Empowering Aerospace Technology Document Management with IoT Technology," In International Conference On Signal And Information Processing, Networking And Computers, pp. 60-67. Springer, Singapore, 2025 https://link.springer.com/chapter/10.1007/978-981-96-4967-9_8



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