GT CDAIT
Biweekly IoT News Digest (06/25 – 1)

Digest is compiled by Alain Louchez, CDAIT Co-founder & Director Emeritus

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, June6, 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-40-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

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 Broadbeam 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 15 th 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-vntfc

- 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/

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