



Digest is compiled by Alain Louchez,  
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### CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from  
around the globe gathered by  
CDAIT

(2150 entries since April 1, 2022)  
[https://cdait.gatech.edu/sites/default/files/2024-02/Digital\\_Transformation\\_Through\\_IoT\\_Technologies\\_February\\_15\\_2024.pdf](https://cdait.gatech.edu/sites/default/files/2024-02/Digital_Transformation_Through_IoT_Technologies_February_15_2024.pdf)

### GOVERNANCE & THE INTERNET OF THINGS

Heather Wright, "Industrial vulnerabilities highlight digitalisation challenge," ["IoT and OT bug out... Operational technology and internet of things environments are being targeted with increasing sophistication with increasing numbers of vulnerabilities helping adversaries," Start [Australia], February 13, 2024  
<https://istart.com.au/news-items/industrial-vulnerabilities-highlight-digitalisation-challenge/>

Tsaaro, "Impact of DPDPA [Digital Personal Protection Act] on IoT in India," Tsaaro Consulting, February 12, 2024  
<https://tsaaro.com/blogs/impact-of-dpdpa-on-iot-in-india/>

Chris Stokel-Walker, "Europe's New AI Rules Could Go Global—Here's What That Will Mean," Scientific American, February 7, 2024  
<https://www.scientificamerican.com/article/europes-new-ai-rules-could-go-global-heres-what-that-will-mean/>

Prakash Sangam, "Can IoT Devices Become Ticking Time Bombs?" Broadband Breakfast, February 6, 2024  
<https://broadbandbreakfast.com/2024/02/prakash-sangam-can-iot-devices-become-ticking-time-bombs/>

U.S. Government Accountability Office (GAO), "National Cyber Director Needs to Take Additional Actions to Implement an Effective Strategy," February 2024  
<https://www.gao.gov/assets/d24/106916.pdf>

Lydia Kostopoulos, "With new tech comes new responsibilities," Observer Research Foundation, January 30, 2024  
<https://www.orfonline.org/expert-speak/with-new-tech-comes-new-responsibilities>

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## Biweekly IoT News Digest (2/24 – 1)

### Georgia Tech IoT-related Info/Research Noticed by CDAIT

### IoT News and Market Reports

(First Half of February 2024)

- 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/2024-02/IoT\\_News\\_Filings\\_February\\_2024\\_First\\_Half.pdf](https://cdait.gatech.edu/sites/default/files/2024-02/IoT_News_Filings_February_2024_First_Half.pdf)
- Sample list of IoT-related market reports gathered by CDAIT – 65 entries: [https://cdait.gatech.edu/sites/default/files/2024-02/IoT\\_Market\\_Reports\\_February\\_2024\\_First\\_Half.pdf](https://cdait.gatech.edu/sites/default/files/2024-02/IoT_Market_Reports_February_2024_First_Half.pdf)

**OF NOTE:** The 10th anniversary of the IEEE World Forum on the Internet of Things (WF-IoT 2024), "Unleashing the power of IoT with AI," will take place in Ottawa, Canada, November 10-13, 2024. WF-IoT seeks submissions and proposals for original technical papers and presentations that address the Internet of Things. For more information see: <https://wf2024.iot.ieee.org/> - Coming up: **IoTBDs 2024 : 9th International Conference on Internet of Things, Big Data and Security**, Angers, France, April 28-30, 2024 <https://iotbds.scitevents.org/>; and **IoTDI 2024, 9th ACM/IEEE Conference on Internet of Things Design and Implementation**, May 13-16, 2024, Hong Kong, China <https://conferences.computer.org/iotDI/2024/>

### Special Reading Suggestions

- Tammilselvan Ponnuvel, "Seamless connectivity in transformative manufacturing: No-code plug-and-play IoT integration," Express Computer, February 13, 2024 <https://www.expresscomputer.in/guest-blogs/seamless-connectivity-in-transformative-manufacturing-no-code-plug-and-play-iot-integration/109051/>
- Mohamed Dabo, "Interview: IoT's impact on consumer brand packaging," Packaging Gateway, February 13, 2024 <https://www.packaging-gateway.com/interviews/interview-iots-impact-on-consumer-brand-packaging/?cf-view>
- Shikha Dhingra, "IoT Testing: Best Practices And Challenges in 2024," Kratikal Blogs, February 9, 2024 <https://kratikal.com/blog/iot-testing-best-practices-and-challenges-in-2024/>
- Sudeep Srivastava, "Use Cases, Benefits and Roadblocks to Harnessing IoT in Aviation," Appinventiv, February 8, 2024 <https://appinventiv.com/blog/iot-in-aviation/>
- Eve Thomas, "Innovation in IoT could shed new light on packaging life cycles," Packaging Gateway, February 7, 2024 <https://www.packaging-gateway.com/features/innovation-in-iot-could-shed-new-light-on-packaging-life-cycles/?cf-view>
- Isaac Hanson, "Q&A: the future of IoT in retail banking," Retail Banker International, February 7, 2024 <https://www.retailbankerinternational.com/features/qa-the-future-of-iot-in-retail-banking/?cf-view>
- Ikhlas Patel, "How IoT can change the world of Education," Medium, February 6, 2024 <https://ikhlaspatel.medium.com/how-iot-can-change-the-world-of-education-cc026deef60b>
- Saumitra Jagdale, "How IoT platforms evolved in 2023," Fierce Electronics, February 5, 2024 <https://www.fierceelectronics.com/iot-wireless/how-iot-platforms-evolved-2023>
- Linda Rosencrance, "Is Batteryless IoT the Future of Connected Devices?" Techopedia, January 31, 2024 <https://www.techopedia.com/is-batteryless-iot-the-future-of-connected-devices>

### Selected IoT Perspectives The Internet of Things and 6G

[Note: 6G is expected to launch commercially by 2030; with lab testing and pilots around 2028]

"6G technology is expected to support up to 10 million IoT devices per square kilometer – a tenfold increase from the 1 million limit for 5G – and a massive increase over 4G's limit of around 2,000 devices per square kilometer," Nicole Willing, "When AI Meets 6G: How Next Gen Mobile Networks Will Change the World," Techopedia, November 13, 2023 <https://www.techopedia.com/6g-and-ai-next-gen-mobile-networks-will-change-the-world>

- Sarah LaSelva, "6G standards to get boost from 5G Advanced in 2024 (Reader Forum)," RCR Wireless, January 12, 2024 <https://www.rcrwireless.com/2024/01/12/reader-forum/6g-standards-to-get-boost-from-5g-advanced-in-2024-reader-forum>
- Scholarly Community Encyclopedia posting, "6G-IoT Technologies," Scholarly Community Encyclopedia, August 4, 2023 <https://encyclopedia.pub/entry/47659>
- Stacey Higginbotham, "What to expect with 6G and the industrial IoT," April 4, 2023, Stacey on IoT, April 4, 2023 <https://staceyoniot.com/what-to-expect-with-6g-and-the-industrial-iot/>
- Pablo Valerio, "6G Set to Primarily Be an Industrial IoT Network," EE Times, April 3, 2023 <https://www.eetimes.com/6g-set-to-primarily-be-an-industrial-iot-network/>
- Sree Lekshmi, "5G to 6G Transition: Road to Advanced Technology, IoT, Infrastructure and Distributed Intelligence," Calsoft, February 2, 2023 <https://calsoftinc.com/blogs/2023/02/5g-to-6g-transition-road-to-advanced-technology-iot-infrastructure-and-distributed-intelligence.html>

**Research background info (sample):** Forthcoming (May/June 2024), "6G Non-Terrestrial Networks for Intelligent IoT Services," IEEE Communications Society <https://www.comsoc.org/publications/magazines/ieee-network/cfp/6g-non-terrestrial-networks-intelligent-iot-services>; A. F. M. S. Shah, M. A. Karabulut and K. Rabie, "Multiple Access Schemes for 6G Enabled NTN [Non-Terrestrial Network]-Assisted IoT Technologies: Recent Developments, Prospects and Challenges," in IEEE Internet of Things Magazine, vol. 7, no. 1, pp. 48-54, January 2024, doi: 10.1109/IOTM.001.2300234 <https://ieeexplore.ieee.org/abstract/document/10396844>; Wu, Jingjing, and Ruiyong Zuo, "Intelligent Computation Offloading Based on Digital Twin-Enabled 6G Industrial IoT," Applied Sciences 14, no. 3 (2024): 1035 <https://www.mdpi.com/2076-3417/14/3/1035>; Ahad, Abdul, Zheng Jiangbina, Mohammad Tahir, Ibraheem Shayea, Muhammad Aman Sheikh, and Faizan Rasheed, "6G and Intelligent Healthcare: Taxonomy, Technologies, Open Issues and Future Research Directions," Internet of Things (2024): 101068 <https://www.sciencedirect.com/science/article/pii/S2542660524000106>; Kamath, Srikanth, Somilya Anand, Suyash Buchke, and Kaushik Agnihotri, "A Review of Recent Developments in 6G Communications Systems," Engineering Proceedings 59, no. 1 (2024): 167 <https://www.mdpi.com/2673-4591/59/1/167>;

<https://cdait.gatech.edu>



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