



## CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from around the globe gathered by CDAIT

(1150 entries since April 1, 2022)  
[https://cdait.gatech.edu/sites/default/files/2023-04/Digital\\_Transformation\\_Through\\_IoT\\_Technologies\\_April\\_15\\_2023.pdf](https://cdait.gatech.edu/sites/default/files/2023-04/Digital_Transformation_Through_IoT_Technologies_April_15_2023.pdf)

## GOVERNANCE & THE INTERNET OF THING

Janna Brancolini, "Europe Upgrades its Cybersecurity Arsenal — Frightening the US," CEPA, April 5, 2023

<https://cepa.org/comprehensive-reports/europe-upgrades-its-cybersecurity-arsenal-frightening-the-us/>

Lotte Schou-Zibell and Arndt Husar, "Connecting the Unbanked: How the Internet of Things can Expand Financial Services," Asian Development Bank (ADB), April 3, 2023

<https://blogs.adb.org/blog/connecting-unbanked-how-internet-things-can-expand-financial-services>

Matt Ross, "Today's government digital leaders ask: where are tomorrow's?" Global Government Forum, April 3, 2023  
<https://www.globalgovernmentforum.com/todays-government-digital-leaders-ask-where-are-tomorrows/>

CyberWire Staff, "New UK and EU cybersecurity requirements for IoT products. The state of corporate cybersecurity in Latin America. FDA's cybersecurity rules for medical devices," CyberWire, March 30, 2023  
<https://theycyberwire.com/newsletters/policy-briefing/5/61>

Alan Charles Raul, Lauren Kitces and Vishnu Tirumala, "Biden Administration Announces National Cybersecurity Strategy," Lexology, March 29, 2023  
<https://www.lexology.com/library/detail.aspx?g=b7cee2d8-f67a-4100-ab0b-46b7f977d24>

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## Biweekly IoT News Digest (04/23 – 1)

## IoT News and Market Reports

(First Half of April 2023)

- 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/2023-04/IoT\\_News\\_Filings\\_April\\_2023\\_First\\_Half.pdf](https://cdait.gatech.edu/sites/default/files/2023-04/IoT_News_Filings_April_2023_First_Half.pdf)
- Sample list of **IoT-related market reports** gathered by CDAIT – 80 entries: [https://cdait.gatech.edu/sites/default/files/2023-04/IoT\\_Market\\_Reports\\_April\\_2023\\_First\\_Half.pdf](https://cdait.gatech.edu/sites/default/files/2023-04/IoT_Market_Reports_April_2023_First_Half.pdf)

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

- Liu, Di, Yikui Gao, Linglin Zhou, Jie Wang, and Zhong Lin Wang, "Recent advances in high-performance triboelectric nanogenerators," Nano Research (2023)  
<https://www.sciopen.com/article/10.1007/s12274-023-5660-8>
- Yazdani-Asrami, Mohammad, Wenjuan Song, Antonio Morandi, Giovanni De Carne, Joao Murta-Pina, Anabela Pronto, Roberto Oliveira et al. "Roadmap on artificial intelligence and big data techniques for superconductivity," Superconductor Science and Technology 36, no. 4 (2023): 043501  
<https://iopscience.iop.org/article/10.1088/1361-6668/acbb34/meta>

**OF NOTE:** Rich Handley, "Happy World IoT Day [April 9, 2023]," RFID Journal, April 4, 2023 <https://www.rfidjournal.com/happy-world-iot-day> --- Dylan Martin, "2023 Internet Of Things 50: A Growth Engine For The Channel [Connectivity, Hardware, IIoT, Security and Software]," CRN, April 3, 2023 <https://www.crn.com/news/internet-of-things/2023-internet-of-things-50-a-growth-engine-for-the-channel> --- Dimitris Paraskevopoulos, "The leading IoT software companies 2023," IoT Analytics, April 12, 2023 <https://iot-analytics.com/leading-iot-software-companies/>

## Special Reading Suggestions

- Softtek Team, "Driving the Future: How IoT is Transforming the Automotive Sector," IoT Business News, April 13, 2023  
<https://iotbusinessnews.com/2023/04/13/65235-driving-the-future-how-iot-is-transforming-the-automotive-sector/>
- Nik Hewitt, "How can we Secure the Internet of Things (IoT)?" Security Boulevard, April 11, 2023  
<https://securityboulevard.com/2023/04/how-can-we-secure-the-internet-of-things-iot/>
- Market Trends, "IoT Skills the Average Tech Worker Will Soon Need," IoT Analytics, April 6, 2023 <https://www.analyticsinsight.net/iot-skills-the-average-tech-worker-will-soon-need/>
- 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/>
- Carl Weinschenk, "Report: People Underestimate Number of IoT Devices in Their Homes," Telecompetitor, April 3, 2023  
<https://www.telecompetitor.com/report-people-underestimate-number-of-iot-devices-in-their-homes/>
- Yoav Landman, "4 key things IoT developers need to keep in mind as the number of connected devices explodes," VentureBeat, March 30, 2023 <https://venturebeat.com/programming-development/4-key-things-iot-developers-need-to-keep-in-mind-as-the-number-of-connected-devices-explodes/>

## Selected IoT Perspectives

### The Internet of Things and Water Management

"[UN-Water Chair Gilbert]Houngbo is positive our society can meet the global water challenge. In the medium to long term, he says, our habits and way of life will adjust, and "the Internet of Things" will help change our consumption patterns," Gzero Staff, "The challenge of measuring the global water crisis," Ian Bremmer, Gzero, March 28, 2023 <https://www.gzeromedia.com/gzero-world-clips/the-challenge-of-measuring-the-global-water-crisis>

- Future Market Insights press release, "Smart Water Metering Market is estimated to grow at a CAGR of 10% from 2023 to 2033 & reach US\$ 9586.02 Million by the end of 2033," Globe Newswire, April 11, 2023 <https://www.globenewswire.com/news-release/2023/04/11/2644689/0/en/Smart-Water-Metering-Market-is-estimated-to-grow-at-a-CAGR-of-10-from-2023-to-2033-reach-US-9586-02-Million-by-the-end-of-2033-Future-market-Insights-Inc.html>
- Chris Edwards, "Internet of Water: A new era for water & IoT," Inside Water, March 28, 2023  
<https://insidewater.com.au/internet-of-water-a-new-era-for-water-iot/>
- THETRENDLINES.com posting, "World Water Day [March 22] 2023: Why is the Day Celebrated?" THETRENDLINES.com, March 22, 2023 <https://thetrendlines.com/634/World-Water-Day-2023>
- UNCTAD posting, "Solving the water and sanitation crisis: How technology and innovation can help," UNCTAD, March 21, 2023 <https://unctad.org/news/solving-water-and-sanitation-crisis-how-technology-and-innovation-can-help>
- Marc Hannis, "Why smart technology is needed to transform the UK's water sector," IoT News, March 8, 2023  
<https://www.iottechnews.com/news/2023/mar/08/why-smart-technology-is-needed-to-transform-the-uks-water-sector/>

**Research background info (sample):** M. A. Haque, S. Ahmad, A. E. M. Eljaily, M. Y. Uddin and D. Sonal, "Internet of Things (IoT) based Model for Water Management System," 2023 International Conference on Smart Computing and Application (ICSCA), Hail, Saudi Arabia, online April 5, 2023, pp. 1-5, doi: 10.1109/ICSCA57840.2023.10087587 <https://ieeexplore.ieee.org/abstract/document/10087587>; Khamparia, Shraddha, Siddharth Jabade, Shrikanth Kulkarni, Priya Nakade, and Dhananjay Bhatkhande, "IoT for Water Management: A Sustainable Solution," Internet of Things: Applications for Sustainable Development (2023): 109 [link to book chapter](#); García-Martín, Juan Pablo, Antonio Torralba, Eduardo Hidalgo-Fort, David Daza, and Ramón González-Carvajal, "IoT solution for smart water distribution networks based on a low-power wireless network, combined at the device-level: A case study," Internet of Things (2023): 100746 <https://www.sciencedirect.com/science/article/abs/pii/S2542660523000690>; Owen David Lloyd, "Smart water management," River (2023) <https://onlineibrary.wiley.com/doi/full/10.1002/rvr2.29>; Miller, Malgorzata, Anna Kisiel, Danuta Cembrowska-Lech, Irmina Durlik, and Tymoteusz Miller, "IoT in Water Quality Monitoring—Are We Really Here?," Sensors 23, no. 2 (2023): 960 <https://www.mdpi.com/1424-8220/23/2/960>; Kumar, Manish, Tinku Singh, Manish Kumar Maurya, Anubhav Shivhare, Ashwin Raut, and Pramod Kumar Singh, "Quality Assessment and Monitoring of River Water Using IoT Infrastructure," IEEE Internet of Things Journal (2023) <https://ieeexplore.ieee.org/abstract/document/10021593>; Mathews, Mervin Ealiyas, Anandu E. Shaji, N. Anand, A. Diana Andrushia, Siew Choo Chin, and Eva Lubloy, "IoT-based BIM integrated model for energy and water management in smart homes," In Intelligent Edge Computing for Cyber Physical Applications, pp. 45-66. Academic Press, 2023 <https://www.sciencedirect.com/science/article/pii/B9780323994125000095>

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