



# GT CDAIT

## Biweekly IoT News Digest (04/22 – 1)

### CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from around the globe gathered by CDAIT (38 entries)

[https://cdait.gatech.edu/sites/default/files/2022-04/Digital\\_Transformation\\_Through\\_IoT\\_Technologies\\_April\\_15\\_2022.pdf](https://cdait.gatech.edu/sites/default/files/2022-04/Digital_Transformation_Through_IoT_Technologies_April_15_2022.pdf)

### GOVERNANCE & THE INTERNET OF THINGS

Kaylene O'Brien, "Digital mastery: the future is human," [article sponsored by Capgemini Australia & New Zealand] Financial Review, April 13, 2022 <https://www.afr.com/technology/digital-mastery-the-future-is-human-20220408-p5ac4v>

Hasan Selman, "Curate your Big Data to Unleash its Power," Dataconomy, April 11, 2022 <https://dataconomy.com/2022/04/data-curation-definition-benefits/>

Neverest IoT, "What does the 4th Industrial Revolution Mean to Africa?" Medium, April 11, 2022 <https://neverestiot.medium.com/what-does-the-4th-industrial-revolution-mean-for-africa-1fb9e6d0a780>

Saidat Giwa-Osagie, "Building tech tools for the 40% who don't have internet access in 2022," The Next Web, April 7, 2022 <https://thenextweb.com/news/building-tech-tools-for-the-40-who-dont-have-internet-access-in-2022>

Sarah E. Igo, "The Price of Privacy," The Atlantic, April 6, 2022 <https://www.theatlantic.com/magazine/archive/2022/05/privacy-law-technology-california-gajda-see-and-hide/629373/>

In a speech given to the Barcelona 2022 REACT Congress, Drexel's Metro Finance head laid out ways that cities across the globe can use the post-pandemic "New Disorder" to make innovative, sustainable and much-needed progress, "The Economic Gift that Keeps on Giving," The Philadelphia Citizen, April 4, 2022 <https://thephiladelphiacitizen.org/new-disorder/>

W Audi Pattarapatumthong, "Malaysia's Digital Challenges," Bangkok Post, April 4, 2022 <https://www.bangkokpost.com/tech/228926/malysias-digital-challenges>

### IoT News and Market Reports

(First Half of April 2022)

- 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 - See: [https://cdait.gatech.edu/sites/default/files/2022-04/IoT\\_News\\_Filings\\_April\\_2022\\_First\\_Half.pdf](https://cdait.gatech.edu/sites/default/files/2022-04/IoT_News_Filings_April_2022_First_Half.pdf)
- Sample list of IoT-related market reports gathered by CDAIT– 92 entries – See: [https://cdait.gatech.edu/sites/default/files/2022-04/IoT\\_Market\\_Reports\\_April\\_2022\\_First\\_Half.pdf](https://cdait.gatech.edu/sites/default/files/2022-04/IoT_Market_Reports_April_2022_First_Half.pdf)

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

- H. Yan, W. Bao, X. Zhu, J. Wang and L. Liu, "Data Offloading Enabled by Heterogeneous UAVs for IoT Applications under Uncertain Environments," in IEEE Internet of Things Journal, doi: 10.1109/JIOT.2022.3151053, published online 2/14/22 <https://ieeexplore.ieee.org/abstract/document/9712650>
- Forthcoming: Farrokh Ayazi, "Low-Power Inertial Measurement Chips for Health Informatics and IoT," Keynote speaker, inaugural Sensor Interfaces Meeting (SIM), May 16-17, 2022 at ASML, Veldhoven, The Netherlands <https://2022.ieee-sim.org/keynote-speakers/>
- Anna Akins, "From Virtual Reality to Ice Slurries: How ATRP [Agricultural Technology Research Program] is Impacting Georgia, the Nation, and World," GT Research, April 11, 2022 <https://research.gatech.edu/virtual-reality-ice-slurries-how-atrp-impacting-georgia-nation-and-world>

**OF NOTE:** CRN Staff, "The 10 Coolest Industrial IoT Companies: The 2022 Internet Of Things 50," CRN, April 5, 2022 <https://www.crn.com/slide-shows/internet-of-things/the-10-coolest-industrial-iiot-companies-the-2022-internet-of-things-50>; Wade Tyler Millward, "2022 Internet Of Things 50: The Need For IoT," CRN, April 4, 2022 <https://www.crn.com/news/internet-of-things/2022-internet-of-things-50-the-need-for-iiot>

### Special Reading Suggestions

- Park Han-na, "AI robots deployed to fill void in senior r care. But can they?" The Korea Herald, April 14, 2022 <http://www.koreaherald.com/view.php?ud=20220414000682>
- Christoph Dernbach, "The Internet of Things may soon run on decentralised networks," The Star, April 12, 2022 <https://www.thestar.com.my/tech/tech-news/2022/04/12/the-internet-of-things-may-soon-run-on-decentralised-networks>
- Henry Martel, "What is the future for the Industrial Internet of Things (IIoT)?" Today's Medical Development, April 10, 2022 <https://www.todaysmedicaldevelopments.com/article/future-industrial-internet-of-things-medical-more/>
- ARC press release, "ARC, Inc. Collaborates with AWS to Support the Internet of Battlefield Things," Business Wire, April 6, 2022 <https://www.businesswire.com/news/home/20220406005453/en/ARC-Inc.-Collaborates-with-AWS-to-Support-the-Internet-of-Battlefield-Things>
- Ashley Gold, "Defense giant Northrop Grumman and AT&T are partnering to create what will be a "military Internet of Things" where sensors, weapons and data will all be connected by a 5G network," Axios, April 5, 2022 <https://www.axios.com/northrop-grumman-att-5g-military-internet-things-2ac25157-9100-4551-b1d4-3baf6b53a44a.html>
- Justim Lam, "The Future of IoT: What Should We Expect?" IoT for All, April 1, 2022 <https://www.iotforall.com/what-can-we-expect-for-the-future-of-iiot>

### Selected IoT Perspectives Satellite Internet of Things

*"Regardless of the application, building the framework for a global IoT infrastructure results in positive socioeconomic economic externalities, and the simplest means by which this can be achieved is through the use of satellites." (\*)*

(\*) Nicholas Spina, "The Internet of Things through novel low Earth orbit satellites," ITU News, March 14, 2019 <https://news.itu.int/the-internet-of-things-through-novel-low-earth-orbit-satellites/>

- Robin Mitchell, "Could satellite internet be the key to remote IoT?" Electro Pages, March 31, 2022 <https://www.electropages.com/blog/2022/03/could-satellite-internet-be-key-remote-iiot>
- Joao Pierre S. Ruth, "AI-Driven Satellite Connectivity Linking Up IoT, Edge Computing," Information Week, March 29, 2022 <https://www.informationweek.com/big-data/ai-driven-satellite-connectivity-linking-up-iiot-edge-computing>
- Reports Insights press release, "Satellite-enabled IoT Market Will Show Continually High CAGR In Upcoming Years," Chatten Sports, March 30, 2022 <https://chattensports.com/604411/business/satellite-enabled-iiot-market-will-show-continually-high-cagr-in-upcoming-years/>
- Darshil Patel, "Team Up Shoots for Global Direct-to-satellite LoRaWAN IoT Connectivity," All About Circuits, March 21, 2022 <https://www.allaboutcircuits.com/news/omnispace-and-lacuna-direct-to-satellite-lorawan-internet-of-things-connectivity/>
- Hub Urlings and Marco Franken, "Update on the Satellite Internet of Things Market," Saterllet Markets and Research, March 4, 2022 <http://satellitemarkets.byteslinger.net/market-trends/update-satellite-internet-things-market>
- Jeff Foust, "Satellite IoT companies don't see broadband systems as competitors," Space News, February 9, 2022 <https://spacenews.com/satellite-iiot-companies-dont-see-broadband-systems-as-competitors/>
- Olga Kostina, "Types of Satellite Networks Used in IoT Solutions," IoT for All, January 31, 2022 <https://www.iotforall.com/types-of-satellite-networks-used-in-iiot-solutions>

**Research background info (sample):** Mahendra Gaikwad, Milind Khanapurkar, and Sachin Untawale, "Recent development of nano-satellite constellation as IoT communication platform," AIP Conference Proceedings 2424, 060007 (published online, March 21, 2022) <https://doi.org/10.1063/5.0078153>; Janosek, Diane (2022) "On the Horizon: Nanosatellite Constellations Will Revolutionize the Internet of Things (IoT)," Seattle Journal of Technology, Environmental & Innovation Law: Vol. 12 : Iss. 1, Article 4. <https://digitalcommons.law.seattleu.edu/sjteil/vol12/iss1/4/>; Kiki, Mesmin J. Mbyamm, and Ibrahim Iddi. "Improved LORA Modulation Output in LEO Satellite Internet of Things," Journal of Electrical Engineering & Technology 17, no. 2 (2022): 1379-1387 <https://link.springer.com/article/10.1007/s42835-021-00949-5>