



GT CDAIT

Biweekly IoT News Digest (06/22 – 1)

CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from around the globe gathered by CDAIT (182 entries)

https://cdait.gatech.edu/sites/default/files/2022-06/Digital_Transformation_Through_IoT_Technologies_June_15_2022.pdf

THE INTERNET OF THINGS

Sashwata Saha, "Europe's New NIS2 Cybersecurity Directive Covers More Sectors, Increases Accountability," Medianama, June 13, 2022 <https://www.medianama.com/2022/06/223-eu-cybersecurity-nis2-directives/>

Eurostat (European Union), "Smart technologies in EU enterprises: AI and IoT," June 9, 2022 <https://ec.europa.eu/eurostat/en/web/product-s-eurostat-news/-/ddn-20220609-1>

Mordechai Chaziza, "China-GCC [Gulf Cooperation Council] Digital Economic Cooperation in the Age of Strategic Rivalry," Middle East Institute, June 7, 2022 <https://www.mei.edu/publications/china-gcc-digital-economic-cooperation-age-strategic-rivalry>

Joseph Marks (with research by Aaron Schaffer), "The U.S. isn't getting ahead of the cyber threat, experts say," The Washington Post, June 6, 2022 <https://www.washingtonpost.com/politics/2022/06/06/us-isnt-getting-ahead-cyber-threat-experts-say/>

Sochan, "Policy warranted to expedite digital transformation: CICP [Cambodian Institute for Cooperation and Peace]," The Phnom Penh Post, June 2, 2022 <https://www.phnompenhpost.com/national/policy-warranted-expedite-digital-transformation-cicp>

Lisa Brown, "IoT tech helps local governments address sustainability," Tech Target [IoT Agenda], May 31, 2022 <https://www.techtarget.com/iotagenda/post/IoT-tech-helps-local-governments-address-sustainability>

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Georgia Tech IoT-related IoT News and Market Reports Info/Research Noticed by CDAIT

(First Half of June 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/2022-06/IoT_News_Filings_June_2022_First_Half.pdf
- Sample list of IoT-related market reports gathered by CDAIT– 84 entries – See: https://cdait.gatech.edu/sites/default/files/2022-06/IoT_Market_Reports_June_2022_First_Half.pdf
- Lawrence Rubin and Michael V. Ceci, "China's 5G networks: A tool for advancing digital authoritarianism abroad?," FPRI: Foreign Policy Research Institute, published April 8, 2022 <https://policycommons.net/artifacts/2325154/chinas-5g-networks/3085673/>
- Seo, Eunhyeok, Hyokyung Sung, Hongyoung Jeon, Hayeol Kim, Taekyeong Kim, Sangeun Park, Min Sik Lee, Seong-Kyum Choi et al. "Laser powder bed fusion for AI assisted digital metal components," Virtual and Physical Prototyping (May 5, 2022): 1-15. <https://www.tandfonline.com/doi/abs/10.1080/17452759.2022.2068804>

OF NOTE: EC-Council Cybersecurity Exchange [IT and e-Business certification platform, Albuquerque, NM], "Understanding the Meaning and Purpose of IoT Forensics [the practice of analyzing IoT devices to investigate crimes]," June 9, 2022 <https://www.eccouncil.org/cybersecurity-exchange/computer-forensics/understanding-meaning-purpose-iot-forensics/>

Special Reading Suggestions

- P Prashanth GJ, "How can Internet of Things (IoT) transform businesses," CXO Today, June 13, 2022 <https://www.cxotoday.com/corner-office/how-can-internet-of-things-iot-transform-businesses/>
- Ravie Lakshmanan, "New Privacy Framework (Carnegie Mellon) for IoT Devices Gives Users Control Over Data Sharing," The Hacker News, June 9, 2022 <https://thehackernews.com/2022/06/new-privacy-framework-for-iot-devices.html>
- Mary Shacklett, "How to extend the life of IoT devices," TechRepublic, June 9, 2022 <https://www.techrepublic.com/article/extend-life-iot-devices/>
- Robert Oshana, "11 Myths of Edge Computing," Electronic Design, June 6, 2022 <https://www.electronicdesign.com/technologies/embedded-revolution/article/21243610/nxp-semiconductors-11-myths-of-edge-computing>
- Alistair Fulton, "The Critical Role of Internet of Things (IoT) in Fighting Climate Change and Decarbonizing Our Planet," Newsweek, June 3, 2022 <https://www.newsweek.com/critical-role-internet-things-iot-fighting-climate-change-decarbonizing-our-planet-1712448>
- Joe Uchill, "Industrial IoT ransomware attacks control systems directly," SC Magazine, June 1, 2022 <https://www.scmagazine.com/analysis/device-security/industrial-iot-ransomware-attacks-control-systems-directly>

Selected IoT Perspectives eSIM and the Internet of Things

"IoT and eSIMs have been the subject of many appeals over the years. But like many promising technologies, it was only a matter of time before their true potential could be appreciated." (*)

(*) Yaniv Elron, "The Far Reaching Potential of eSIM Technology & IoT," IoT for All, May 16, 2022 <https://www.iotforall.com/fact-check-esims-and-the-iot>

- Polaris Market Research (New York City) press release, "eSim Market Demand, Leading Global Companies and Regional Average Pricing Analysis by 2030," Digital Journal, June 7, 2022 <https://www.digitaljournal.com/pr/esim-market-demand-leading-global-companies-and-regional-average-pricing-analysis-by-2030#ixzz7W5E9eO7c>
- Market Research Future (MRF, Pune, India) press release, "eSim Market to grow at a 31.4% CAGR by 2030," May 26, 2022 <https://www.digitaljournal.com/pr/esim-market-to-grow-at-a-31-4-cagr-by-2030-key-players-stmicroelectronics-gemalto-nv-nxp-semiconductors-infineon-technologies-ag#ixzz7UzOWkN00>
- Claus Dietze, "eSIM Has Entered a New Era with IoT and 5G. Here's Why.," Enterprise IoT Insights, May 12, 2022 <https://enterpriseiotinsights.com/20220512/nb-iot/esim-has-entered-a-new-era-with-iot-and-5g-heres-why-reader-forum>
- KORE, "eSIM 101: what it is and how it helps IoT," IoT Hub (Australia), May 11, 2022 <https://www.iothub.com.au/feature/esim-101-what-it-is-and-how-it-helps-iot-579828>
- Yaniv Elron, "What's really happening with eSIM and the IoT?" Beta News, April 5, 2022 <https://betanews.com/2022/04/05/esim-and-iot/>
- Tobias Goebel, "Why eSIM matters for the IoT, and how it's different from Embedded SIM," IoT World Today, March 9, 2022 <https://www.iotworldtoday.com/2021/03/09/why-esim-matters-for-the-iot-and-how-its-different-from-embedded-sim/>
- Eseye, "5G, Industry 5.0 and eSIM Connectivity Pivotal to Continuing Future IoT Momentum, According to Eseye's Future of IoT Report," IoT Business News, February 9, 2022 <https://iotbusinessnews.com/2022/02/09/03069-5g-industry-5-0-and-esim-connectivity-pivotal-to-continuing-future-iot-momentum-according-to-eseys-future-of-iot-report/>
- Techweez, "The SIM Card is 30 Years Old Today [11/18/21]," Techweez, November 18, 2021 <https://techweez.com/2021/11/18/sim-card-30th-birthday/>
- Per Ståhl, Juha Säskilähti, and Qiang Li, "Why eSIM standards need to change for low-power IoT," Ericsson website, March 11, 2021 <https://www.ericsson.com/en/blog/2021/3/esim-low-power-iot>

Research background info (sample): Mathew, Alex R. "Threats and Protection on E-sim: A Prospective Study." Novel Perspectives of Engineering Research Vol. 8 (March 8, 2022): 76-81 <https://stm.bookpi.org/NPER-V8/article/view/6112>; Narain, Atul, Pratibha Garg, and Dilshad Ahmad Ansari. "Sustainable Connectivity Management via e-SIM Multi Licence-Based Billing." In Computational Modelling in Industry 4.0, pp. 67-78. Springer, Singapore, February 12, 2022. https://link.springer.com/chapter/10.1007/978-981-16-7723-6_6 GSMA, "eSIM Whitepaper -- The what and how of Remote SIM Provisioning," GSMA pdf (21 pages), March 2018 <https://www.gsma.com/esim/wp-content/uploads/2018/12/esim-whitepaper.pdf>