

BLOCKCHAIN HEALTHCARE SITUATION REPORT

Volume 2/Issue 26: 25 Jun – 01 Jul 2018

1st Anniversary/Final Phase 1 Report

WELCOME

With this 1st anniversary issue, phase 1 and the BC/HC SITREP end.

A year ago, the idea of blockchain in healthcare was nascent one with only a few federal champions (HHS ONC).

51 reports, dozens of briefings, and hundreds of conversations later, the applications are being piloted and discussed at the senior executive level at HHS, VA, DHA, and more.

I didn't do it alone. It took a network. And there is much to be done.

Some parts of phase 2 are described on page 2: new reports, a new book, and a new organization.

Thanks for reading.

– Sean T. Manion, PhD
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Science Distributed
Better Science, Cheaper Research, Faster Miracles

BLOCKCHAIN HEALTHCARE NEWS

The Power of Blockchain on Medical Devices and Health Records

The technology holds the promise of making information more secure and more sharable while giving patients more control over it.

<https://governmentciomedia.com/power-blockchain-medical-devices-and-health-records>

Next-gen interoperability: AI, blockchain, FHIR and open source analytics

Healthcare has struggled with data sharing for a long time but, even still, experts said the future will be robust as emerging technologies and standards become more common.

<https://www.healthcareitnews.com/news/next-gen-interoperability-ai-blockchain-fhir-and-open-source-analytics>

Blockchain Technology Can Help Fight Counterfeit Drugs

Counterfeit drugs are fake medicines that may be contaminated with ingredients not listed on the drug label or contain the wrong active ingredient, the wrong amount of active ingredient or no active ingredient at all.

<https://www.law360.com/ip/articles/1057471/blockchain-technology-can-help-fight-counterfeit-drugs>

“Now this is not the end. It is not even the beginning of the end. But it is, perhaps, the end of the beginning.” – Winston Churchill

BLOCKCHAIN NEWS

Blockchain: What is the point of it all?

This article from Tobias Mathiasen (Vice President, ICO Advisory, Standard Kepler) will briefly introduce the core value proposition of blockchain, and explore when integrating this new ledger technology makes business sense in existing processes

[B]lockchain is at the core nothing more than a ledger technology for keeping track of transactions. That said, blockchain is a relatively new tool with a unique combination of characteristics that makes it particularly suitable for removing information verification and value exchange inefficiencies.

<https://www.information-age.com/blockchain-technology-business-sense-123473129/>

BLOCKCHAIN & HEALTH SCIENCE – RECENT EVENTS & WHAT IS COMING NEXT

Blockchain in Healthcare Webinar Series: Scientific Publishing and Replicability, a Multi-Organization Panel – Recorded 28 Jun 2018

This lively discussion moderated by Heather Flannery featured: Joris van Rossum, Project Lead for BlockchainPeerReview.org at Digital Science in Amsterdam; Lawrence Rajendran, Founder and CEO of ScienceMatters in Zurich; Naseem Naqvi FRCP MACadMED, Co-Founder of The British Blockchain Association and Editor-in-Chief of the peer-reviewed Journal of the British Blockchain Association (JBBA) in Blackpool in the UK; and Sean Manion, PhD, Founder and CEO of Science Distributed in New York.

My slides: <https://www.slideshare.net/SeanManion3/blockchain-science-publishing-and-replicability>

<https://www.gotostage.com/channel/fbe5c0a47b7d4ed3815b39156dbaoed8/recording/aeodfa518540482a861eaa2a546f2f2a/watch>

The Inc. Tank Podcast (w/ Christina Elson) - Sean Manion: Reinventing Research using Blockchain

The Inc. Tank is a podcast series hosted by Christina Elson at the Ed Snider Center for Enterprise and Markets at University of Maryland. This recently launched series sheds light on technologies that will disrupt multiple industries and create currently unimagined new market opportunities. Through interviews with researchers, policy makers and business entrepreneurs, we present perspectives on how these technologies will contribute to market dynamism, foster increased competition, and challenge existing revenue models.

The first season of The Inc. Tank investigates Blockchain. Blockchain is a form of secure, digitized peer-to-peer value exchange that is revolutionizing everything from financial services to logistics to manufacturing to media to the government. By some estimates, investors have poured over a billion dollars into about 300 blockchain-related products and services since 2012. One reason Blockchain is a multi-market disruptor is that it allows for the efficient operation of shared infrastructure and reduces coordination problems. In doing so, it can remove the need for intermediaries such as platform operators. Blockchain has the potential to create more innovative marketplaces that are characterized by increased competition and lower barriers to entry. Through conversations with entrepreneurs, investors, futurists, and regulators, we'll dive into issues around government and transparency, market speculation, intellectual property, reducing coordination burdens, and the future of white-collar jobs. <http://edsnidercenter.org/category/the-inc-tank/>

New Organization (July 2018) – Blockchain in Healthcare Global (BiHG)

A new independent 501(c)6 membership organization under the IEEE Industry Standards and Technology Organization umbrella. Its mission is to address the barriers to adoption of blockchain and converging innovations in health, life, and social sciences while advancing progress in scientific reproducibility, medical ethics, human rights, and global inclusion.

BiHG is contributing to IEEE standards activities underway in healthcare: blockchain for clinical trials, blockchain and IoMT (internet of medical things), etc. Founded by Heather Flannery with several co-founders (including me).

New Reports (Aug 2018) – This is the final BC/HC SITREP, but two will grow in its place in the next phase: “**Distributed Ledger Tech Applications – Global (DLTA-G) Report**” on worldwide advancements and problem solving with DLT in healthcare and beyond; and **Science Distributed’s “Health Research Value Report**” on value-based health research cost, quality, return on investment and making it better. To sign up, fill out this 2min survey and follow instructions in questions 6:

<https://www.surveymonkey.com/r/8FKCWR5>

New Book (Fall 2018) – Distributed: The Way to Faster Miracles by Sean Manion

Part I – Science is Easy (Science is complex but broken into its fundamental parts is easier to understand): Ch1 – Good Science; Ch2 – Evidence Based Medicine; Ch3 – Science Crisis; Ch4 – Full METL Science; Ch5 – Open Science

Part II – Blockchain isn’t Tech (Blockchain has a key technology component but is more about the network of users and data standards in any complex data application like health and science): Ch6 – History of Distributed Ledgers; Ch7 – Blockchain Basics; Ch8 – Beyond Bitcoin; Ch9 – Data Complexities; Ch10 – Blockchain is People

Part III – The DAO of Science (A distributed autonomous organization (DAO) networks collaboration without hierarchy and intermediaries and may be the perfect solution for improving science): Ch11 – Distributing Science; Ch12 – Better Quality Science; Ch13 – Value Based Research; Ch14 – Faster Medical Miracles; Ch15 – DAO of Science