Applied Blockchain: Current and future directions with SEI & CMU partners

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CMU SEI – a DoD Federally Funded Research and Development Center (FFRDC)

- Our mission: Engineering and securing software
- Established in 1984 at Carnegie Mellon University
- ~700 employees
- Offices in Pittsburgh and DC, with locations near customer facilities in MA, MD, TX, and CA
- ~$145M in annual funding (~$20M USD(R&E) 6.2 and 6.3 Line funding)
Recap from last year

Lots of “trying things out”

A few (very few) early adopters

Waiting for ecosystem to settle down
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Current status

...about the same

Expectations being toned down
HHS – Accelerate

From the article:

The new system gives acquisition teams detailed, real-time information on pricing and terms and conditions from across HHS for 10 categories of purchases. There are also micro-services to help automate the development of acquisition plans and marketing documents, [Jose] Arrieta said, and the beginnings of a tool to help HHS vendors pull data on their past interactions with the agency and avoid "the trouble of re-submitting all the past info over and over again."

CDC – Outbreak Response

Blockchain to connect disparate systems

Database ➔ Blockchain for unified data view

Using Hyperledger microservices, building atop legacy systems

Live in Dec 2018 (?)

CDC – Public health tracking

CDC regularly collects lots of survey data on medical topics
Currently using simulated data

VA – Contracting

On June 7, the US Department of Veteran Affairs (VA) issued a request for information (RFI) regarding how blockchain technology could be used to simplify and streamline the department's contract procedures, specifically when contracts are closed out.

This is not the first time the VA has looked to blockchain [...]. In January, the VA sought proposals on how to improve health data sharing and interoperability through blockchain technology.

Australia – A whole bunch of stuff

Relatively fast government adoption

Significant research investment

Australia takes the lead in blockchain globally

9 April 2019

Australia has carved out an international reputation for blockchain since the technology was first introduced over a decade ago.

Minister for Industry, Science and Technology Karen Andrews welcomed the launch of a new report, Blockchain 2030: A look at the future from CSIRO’s Data61, in collaboration with the Australian Computer Society, saying blockchain presented an enormous opportunity to create jobs and support the growth of Australian businesses.

“Australia’s blockchain sector is expanding rapidly, and the development of a national blockchain roadmap, announced recently, will help Australia seize these opportunities,” Minister Andrews said.

Blockchain is important to help protect and increase the number of investment

Infrastructure & Tooling

Infrastructure and tooling still a largely unsolved problem, many of the new solutions are fascinating but untested
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