Maintaining Trust and Privacy of Personal Data with Blockchains

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The Open University
50 YEARS

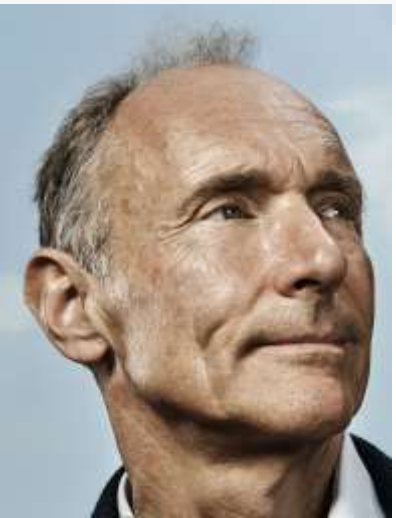
VANITY FAIR

BY KATRINA BROOKER
AUGUST 2018

The Open University 50 YEARS

"I WAS DEVASTATED": TIM BERNERS-LEE, THE MAN WHO CREATED THE WORLD WIDE WEB, HAS SOME REGRETS

Berners-Lee has seen his creation debased by everything from fake news to mass surveillance. But he's got a plan to fix it.

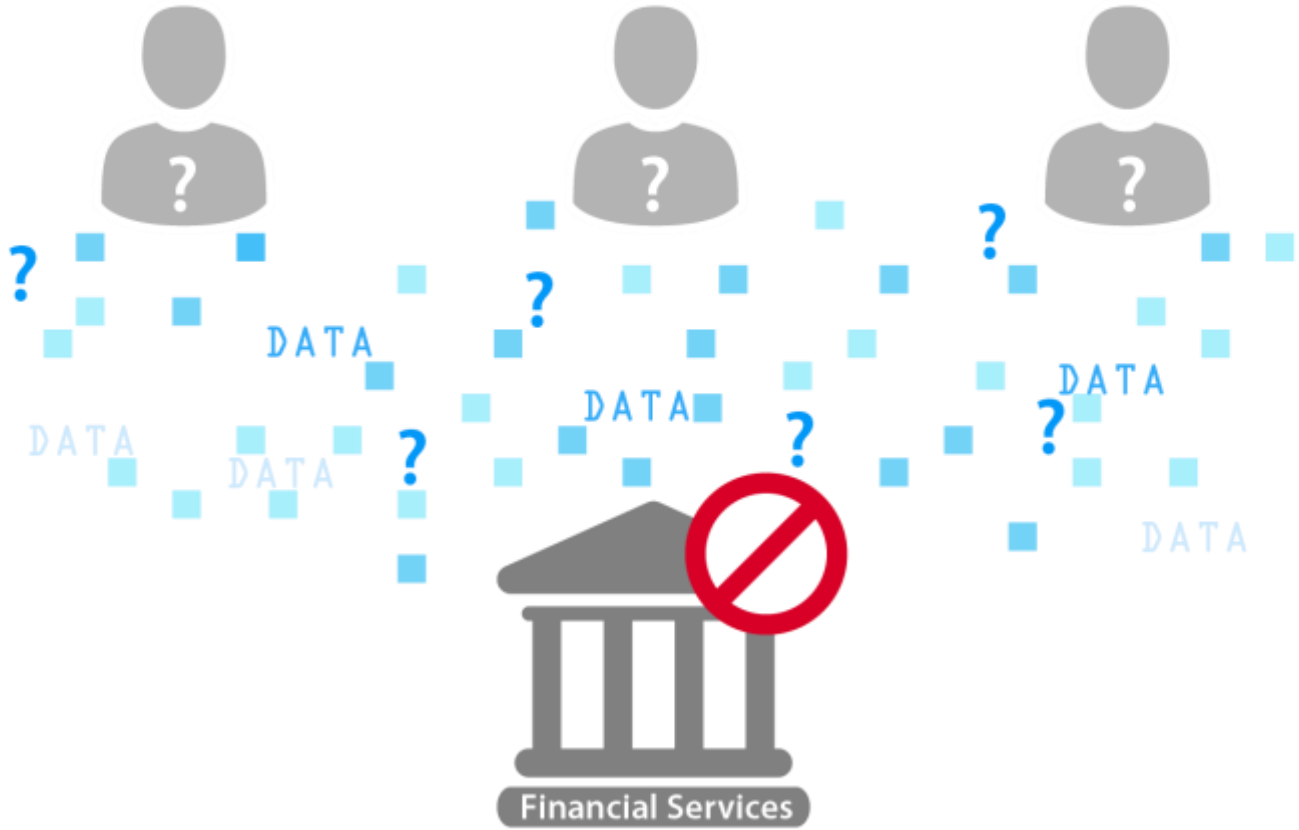


"We demonstrated that the **Web had failed** instead of served humanity, as it was supposed to have done, and failed in many places," he told me. The **increasing centralization of the Web,** he says, has "ended up producing—with no deliberate action of the people who designed the platform—a **large-scale emergent phenomenon which is anti-human**."

- 5.5 GB
- Everywhere you've been
- Everything you've ever searched (and deleted)
- Advertisement profile
- All the apps you use
- All your YouTube history

https://www.theguardian.com/commentisfree/2018/mar/28/all-the-data-facebook-google-has-on-you-privacy

Thin Files and the Data Poor



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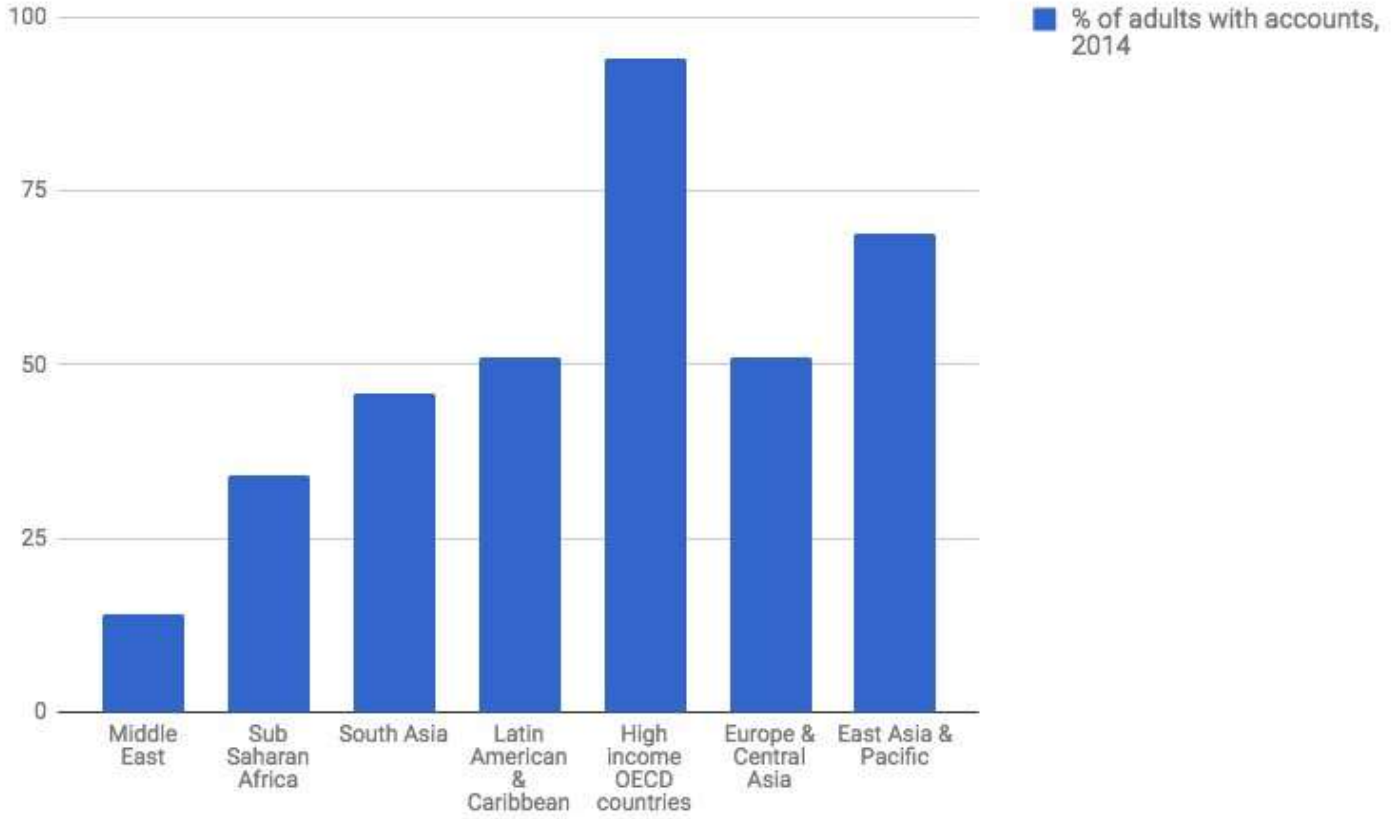
2 Billion Unbanked



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Windrush Scandal

http://www.theweek.co.uk/92944/who-are-the-windrush-generation-and-why-are-they-facing-deportation

Ledger

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Hash

File

Hash

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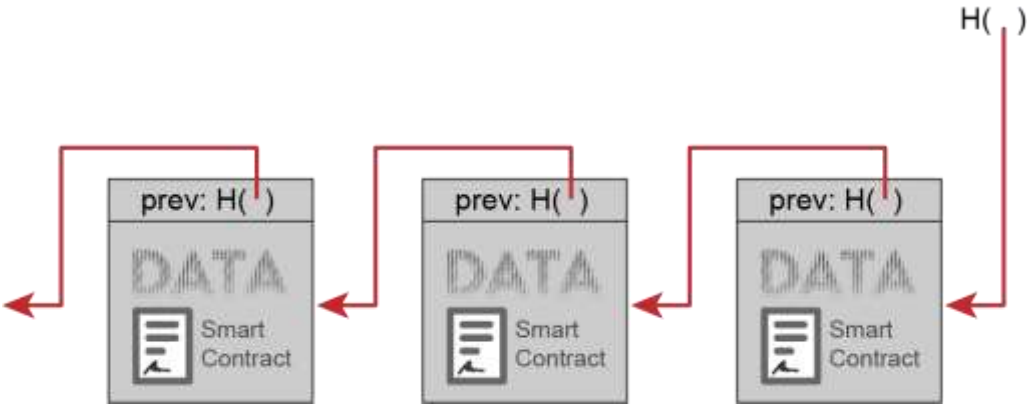
Immutable Blocks

File

Hash



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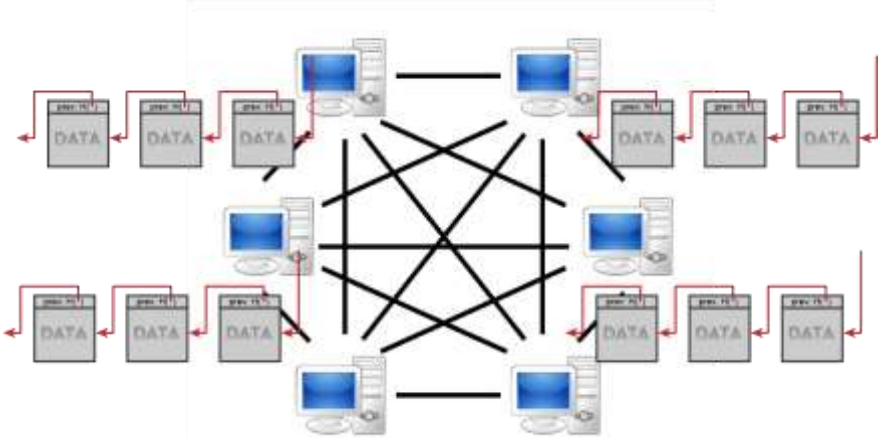
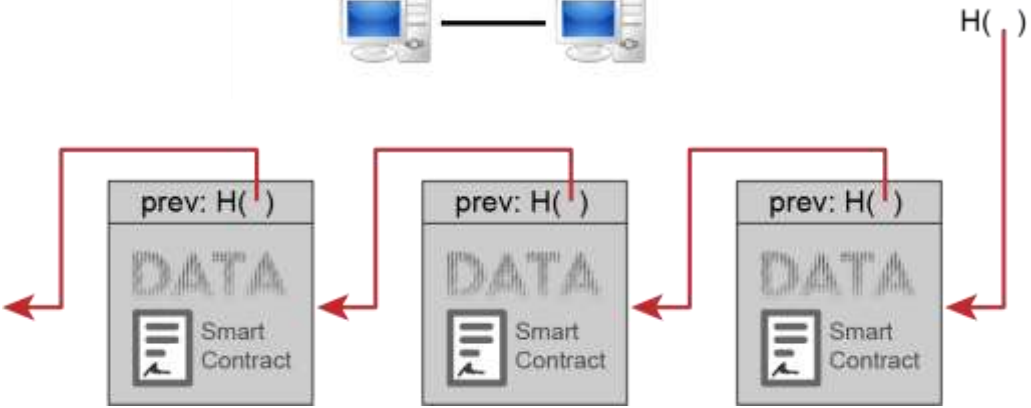
Peer to Peer

File

Hash





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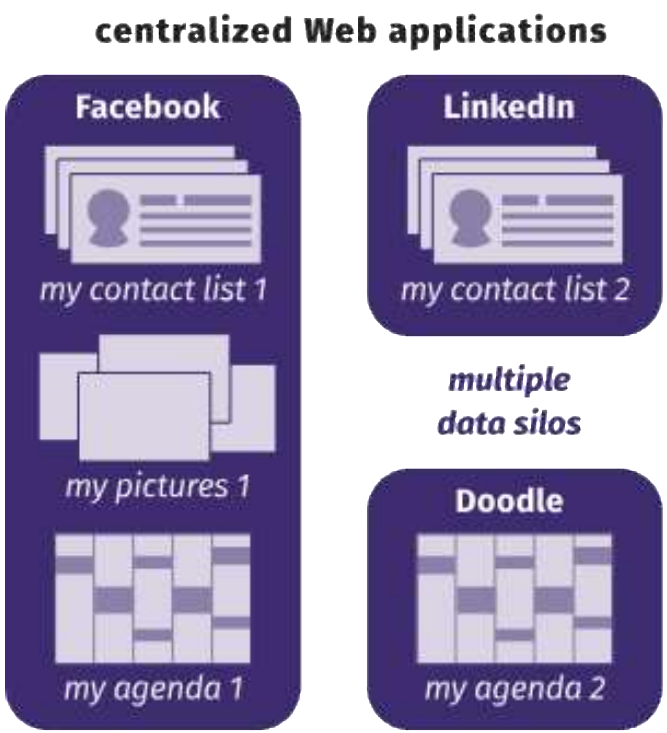
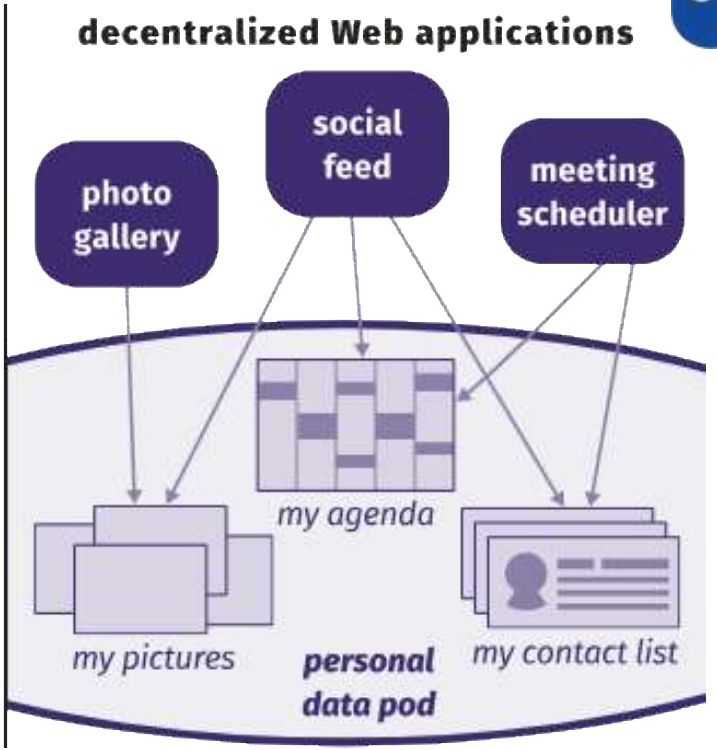
Solid





https://rubenverborgh.github.io/Solid-DeSemWeb-2018/

Self Sovereignty

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LinkChains

Web/Mobile Application or Client

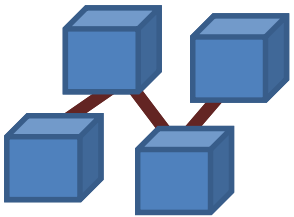
User controlled read/write access

Public and private data storage and access

Recording, Verification and Asset Transfer

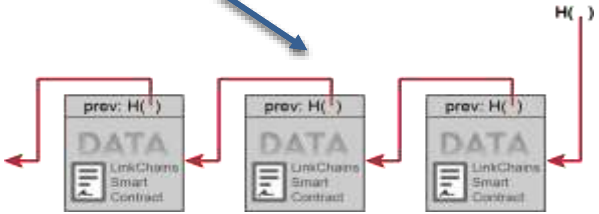
SOLID Personal Data Pod

Private data solely under user control



Distributed data storage

Public and private data



Decentralized ledger and 'global computer'

LinkChains

Students access and update learning achievements

moodle

Badge issuing and badge issuing rights

Storing and retrieving token metadata

Solid Personal Data Pod

Learning Record

IPFS

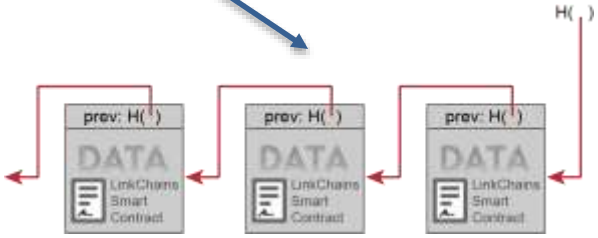
IPFS

IPFS

IPFS

IPFS distributed data storage

Token Metadata incl. Student Solid URLs



Signed token metadata URL and badge issuing contracts

institute of CODING

EU Blockchain Observatory and Forum

DELALL

QualiChain

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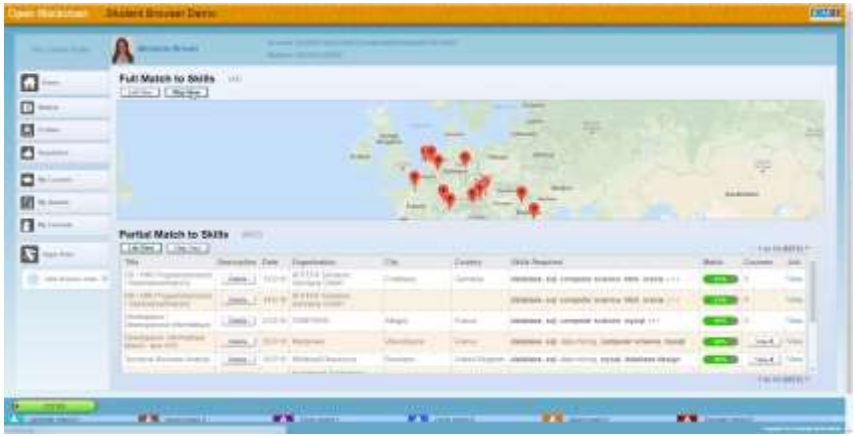
All Badges

Category All Subcategory All

Count: 783

Image	Title	IoC Id	Blockchain Address	View
CODING GOVN 5 KNOWLEDGE BIBSIA	Knowledge of Enterprise IT governance at level 5	be03d5170dba03d4d036cf317d919f625197 90fb2e735600c195c888aed3e153	0x-e629e35b27c719a22c029d8 09472dc0fb2cd4048	
CODING GOVN 5 COMPETENCE BIBSIA	Competence in Enterprise IT governance at level 5	6f424a67f98a2700fd471094a16617484ce01 96035114b18a083faf54f579d81	0x1f5381c58234f4ba4ad-b797c2b59cb700f167817	



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