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Hyperledger: 5 Real Apps in 5 Minutes

Brian Behlendorf, ExecDir Hyperledger, *The LF*

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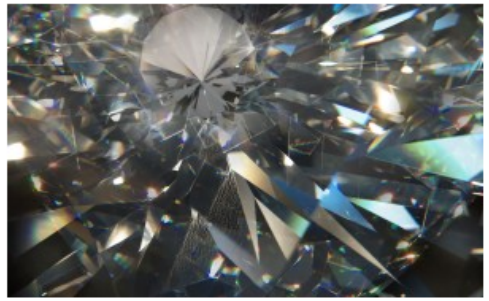
Everledger Brings Blockchain Tech to Fight Against Diamond Theft

Grace Caffyn (@GCaffyn) | Published on August 1, 2015 at 12:30 GMT

FEATURE



Diamonds have an unlikely new best friend – the blockchain.

London startup Everledger is using the technology behind bitcoin to tackle the industry's expensive fraud and theft problem. Or as CEO Leanne Kemp describes it, "putting bling on the blockchain".

According to a 2012 study from the Association of British Insurers, around 65% of fraudulent claims go undetected, at an expense of £2bn to insurance companies annually.

Diamonds play a key part in this, Kemp said:

> *"Insurers will meet at a conference once a year and say 'By the way, did you see our diamond fraud has gone through the roof this year?' and they're like 'Hey, so has ours actually – we've paid out heaps!'."*

Until now, however, there hasn't been a surefire way to detect if a diamond has been stolen. Like other luxury goods, proof of ownership remains locked in paper, which is vulnerable to tampering and loss.

But, what if diamonds could be digitised? Well, Everledger, led by self-described "super nerd" Kemp, is doing just this, with a tamper-proof digital ledger of the world's most valuable stones.

The idea for the company, she said, was sketched on the back of a beer mat just a few weeks

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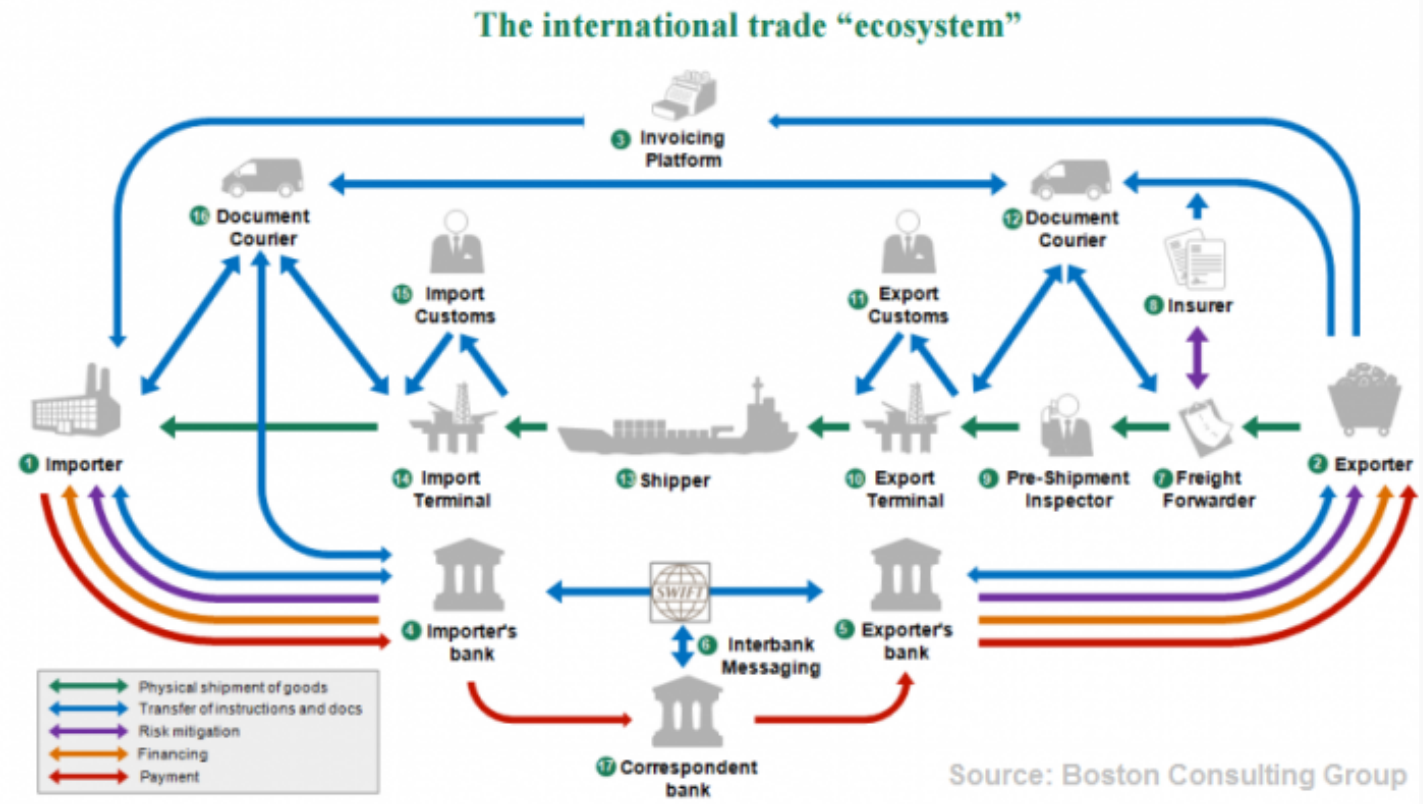

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FORTUNE | Tech

Cuts of pork in a chiller cabinet at a market in Shanghai, China. **Tomohiro Ohsumi—Bloomberg via Getty Images**

FORTUNE 500

Walmart and IBM Are Partnering to Put Chinese Pork on a Blockchain

Robert Hackett
Oct 19, 2016

A decade ago in the United States, a deadly strain of E. coli in tainted spinach ripped through 26 states, killing three people and sickening more than 200. The outbreak represents what can happen when sourcing food—and tracing contaminations—goes horribly wrong.

"Consumers, in general, stopped eating spinach. Restaurants pulled it off the menu," says Frank Yiannas, vice president of food safety at Walmart (WMT, +1.31%). "If you could track and pinpoint where that came from faster, you could alleviate all that and ensure consumer confidence continues."

This is the impetus behind the retailer's latest unlikely project intended to overhaul the supply chain. Walmart is teaming up with IBM (IBM, +0.43%) and Tsinghua University in Beijing to digitally track the movement of pork in China on a blockchain, also known as a distributed ledger.

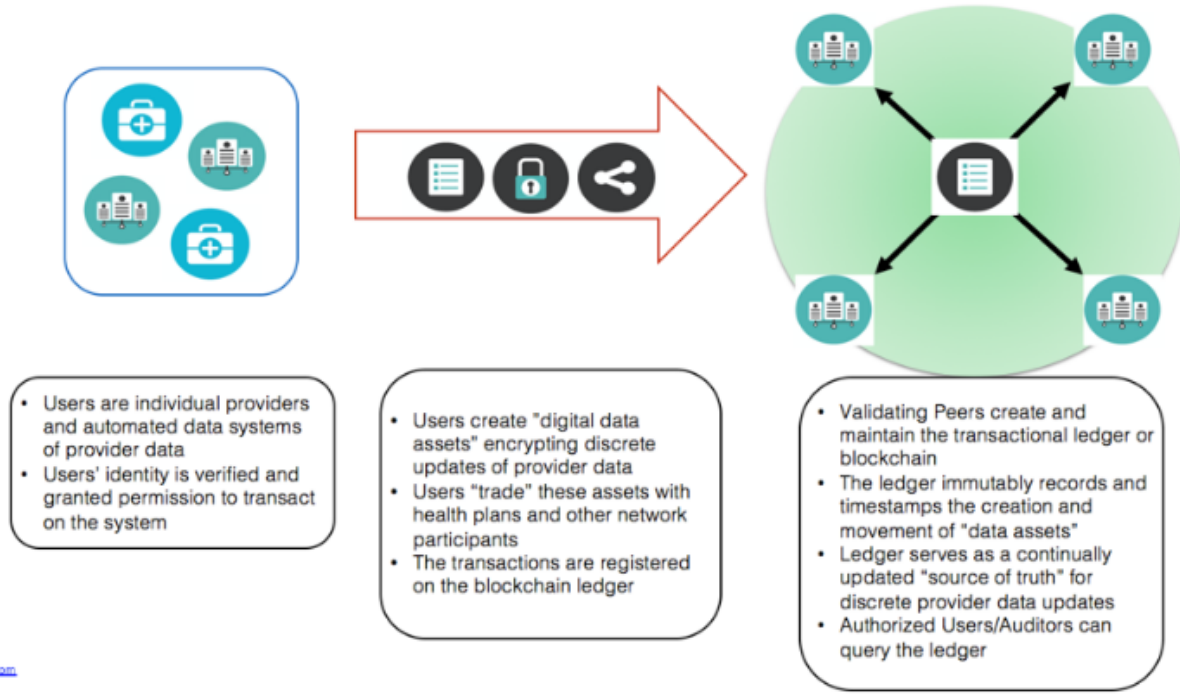
Such a system could help prevent disaster scenarios like the fatal, nationwide outbreak described above, Yiannas says.

Get Data Sheet, Fortune's technology newsletter.

Walmart plans to use technology developed by the Hyperledger Project, an

Hashed Health has built a test chain to demonstrate the essential benefits of a decentralized transactional layer.

The core function enables plans and individual providers to create and exchange "digital data assets" which can be securely distributed to network members via a permissioned, distributed ledger system. By "tokenizing" provider updates, the system creates trackable data assets which can be distributed to multiple network participants. The reporting of the all asset changes to the distributed ledger ensures that provider data is up-to-date and consistent across multiple entities as well as internal, siloed data systems. The proposed solution architecture builds upon the current "data store" model, introducing a "transactional" model that enables greater liquidity of data.



For the purposes of a technical demo, Hashed Health employed Hyperledger's Fabric v0.6platform. Fabric demonstrates a number of compelling properties well-suited to enterprise solutions, including a robust member services and permissioning layer and multiple peer roles, enabling confidential transactions. We look forward to the further development of these and other features as Fabric v1.0 is released in Spring 2017.

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CLS to develop payment netting service

28 September, 2016 Written by Banking Tech

Print Email

CLS Group has started building a payment netting service, using existing message protocols and distributed ledger technology (DLT), which will be open to all FX market participants – not just CLS members –and will also enable CLS members to net some FX trades that are currently settled outside the CLS settlement service.

CLS: DLT for everyone in FX!

CLS Netting, scheduled to go live in 12-18 months, will provide the FX market's first standardised payment netting process for trades settled in a total of 24 currencies – the 18 currencies currently settled by CLS today, plus an additional six non-CLS eligible currencies.

Speaking to *Daily News at Sibos*, Alan Marquard, chief strategy and development officer at CLS, said: "While some of the larger banks have developed bilateral netting services themselves, this is the first time a solution has been presented that will coalesce the market around standards, reducing risk and cost in the FX market. This will not only bring the benefits of netting to a wider audience, but also will deliver greater value to CLS members in being able to net with non-CLS market participants."

Of the 14 early adopters committed to go live with CLS Netting at launch, three are non-CLS members – Banco Actinver and two buy-side market participants, Goldman Sachs Asset Management and Neuberger Berman. Further firms from both within CLS and elsewhere are expected to come on board within the next year.

CLS will build the DLT platform for CLS Netting using Hyperledger Fabric, an industry-accepted, open-source solution. It will also work in collaboration with its technology partner IBM to help ensure that the platform meets the requirements necessary for delivering a resilient, secure, and scalable service.

News

Chinese Open World's First Energy Blockchain Laboratory

By **Richard Kastelein** - May 18, 2016

A Blockchain laboratory focused on energy was formally set up a ceremony held in Beijing's Cultural and Creative Industries Park last week, representing the world's first of it's kind.

In a formal ceremony held on May 15, 2016, four founding partners officially revealed the new programme – including low carbon business leader Zhu Weiqing, Lin Yue from the Institute of microelectronics, Cinda Blockchain expert Cao Yin, as well as Li Ren Wang from Factom.

> "It is the hope that by being early in the industry we will establish an accumulation of organisational factors to promote the development, explore a good way to establish cooperation of financial capital and promote rapid change through the establishment of the Blockchain energy laboratory. " Lin Yue said at the press conference.

Cao Yin stated that by the end of 2016, the energy Blockchain laboratory will complete an energy Blockchain, which will b able to issue certified carbon reduction displacement (CCER) for asset based digital assets in the form of a carbon ticket and have more expansive plans for 2017-18.

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