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CRYPTOA.M. Our series on AI, Blockchain, Cryptoassets, DLT and Tokenisation

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CITY A.M.'S **CRYPTO INSIDER**

uilding an entirely new, robust financial system

from the ground up was never going to be an easy task, but building that third generation blockchain protocol was exactly the challenge that IOHK's Charles Hoskinson set, leading to the development of Cardano. IOHK utilise formal methods and functional programming languages - more commonly seen in mission-critical applications such as satellite and aerospace, to ensure the highest possible levels of software robustness and security. That approach has meant that the development process had been slow and steady. I have previously compared Cardano to EOS being a reflection of the Aesop Fable 'The Tortoise and the Hare'. Well there has been a sudden rush of activity from IOHK, as they prepare for the pending 'Shelly' era of Cardano's development, later this year, which will bring full decentralisation to the platform-initially via a testnet, which will allow participants to run their own nodes, run a 'stakepool' allowing participants to pool their stake of Cardano's native token, ADA delegating the task of earning rewards by contributing their ADA to a

With most Crypto prices showing red, Cardano has been pretty consistently in the green and at the time of writing Bitcoin (BTC) was trading at US\$8.464.09 / GB£6.525.95; Ethereum (ETH) is at US\$182.43 / GB£140.69; Ripple (XRP) is at US\$0.2585 / GB£0.1990; Binance (BNB) is at US\$19.73 / GB£15.67 and Cardano (ADA) is at US\$0.04561 / GB£0.03498 Overall Market Cap is at US\$233.91bn / GB£180.45bn (data source: www.CryptoCompare.com)

Changing tack, I thought it was time to talk about the OneCoin scandal. After speaking with Crypto AM contributor Jon Walsh, I learned that OneCoin is the world's largest scam at US\$4.5bn that most people had never heard of up until this September when the BBC blockbuster podcast "The Missing Cryptoqueen" first aired. The magic of OneCoin was in it's product and the way it was sold directly through friends, family and acquaintances on social media (incentivised via a 10% commission of course). OneCoin was frequently hailed as "the Bitcoin killer" – where bitcoin was hard to buy. OneCoin was easy. where Bitcoin had had frequent attacks on exchanges, OneCoin was secure, where Bitcoin was slow and expensive to send, OneCoin was cheap, and where so few merchants accepted Bitcoin, OneCoin was already building merchants via their own Amazon style platform.

OneCoin though was / is a Ponzi scheme and the Missing Cryptoqueen is Bulgarian Dr Ruja Ignatova who, as the multilingual CEO of OneCoin, would come on stage to fireworks and loud motivational music to mesmerise the audience and harden their belief that OneCoin truly will be the leader of this financial revolution.

The current status is that Dr Ignatova has now been missing and whereabouts unknown for two years, her brother is giving evidence against her in absentia in court in New York this month and ever hopeful affiliates are still blind. Jon will be writing in fuller detail in the coming weeks, so watch this space!

its Spotlight on

Clear Factor

lear Factor is a decentralised global

invoice finance ecosystem designed

✓ for SME's with a mission to provide

every viable SME with access to fair and

The birth of Clear Factor came after

More than 10 years on, a group of

affected, yet survived the financial crisis,

joined together to create a community-

driven global invoice finance ecosystem

full of small businesses which are still

being denied finance.

that will address a £2 trillion marketplace

The Clear Factor board all have stories to

tell, but none more so than the chairman,

Ricky Shankar. Shankar launched his then

software services firm Amsphere in 2002

which grew quickly and exponentially,

posting 100% growth in revenue and

financial professionals who were all

principal sources of funding for loans to

businesses and individuals were no longer

available, following the financial crisis of

affordable working capital.

Crypto A.M. shines

profits in its infant years. When payment

Shankar looked in to invoice financing and

HBOS whereby Amsphere was able to draw

terms lengthened three years later,

down 85% of all invoices raised

immediately.

agreed an invoice finance facility with

It all changed in 2009 when HBOS was

taken over by Lloyds and they merged to

Clear Factor is focusing

on micro and small

market – those that

are not currently

serviced by banks for

invoice finance.

segments of the SME

acebook announced Libra, it's proposed digital currency, on

June 18, 2019. Libra's intended launch was 2020, but international regulatory pushback makes it uncertain when or if Libra will launch. Regardless, simply by being proposed, and simply because Facebook is involved. Libra is already challenging national fiat currencies.

LIBRA OVERVIEW

➤ Libra's stated purpose is bringing financial services to the globally unbanked by "...empower(ing) billions of people through the creation of a simple global currency and financial infrastructure." Users will directly and globally exchange low-volatility Libra (not local national fiat currency) using their mobile devices.

> Officially Facebook's Libra involvement is through its subsidiary Calibra. Calibra in turn participates in Libra via membership in the Libra Association (the "Association").

> The legality of Libra's novel model is unclear, but it does not seem to be clearly illegal. More likely there exists a regulatory vacuum. Libra's documents and Calibra have emphasized that Libra seeks to coordinate with governments to operate in a regulated and compliant manner. But, Calibra has refused to place Libra's launch on permanent hold pending US congressional approval.

➤ The Association is a non-profit membership organization based in Geneva, Switzerland. The Association was intended to have 28 initial members, scaling to 100+ members around Libra's launch. However, several payment providers, including Mastercard, Stripe, PayPal, and Visa, withdrew after received ing threats from the US Congress. When the Association held its first meeting on October 14, 2019, it had just 21 members Next, let's examine why regulators are

LIBRA CAN RAPIDLY SCALE.

so adamantly against Libra.

Beyond transactions per second, cryp tocurrency scale also refers to the rate of user adoption and ease/recurrence of usage. Bitcoin et al. have not been glob ally adopted by everyday users engaged

recalibrated its risk assessment and

Amsphere was now deemed 'high risk'

no bad debts. Amsphere was given six

despite being a reliable client and posting

months to find a new invoice finance lender.

Shankar learnt an important lesson.

Banks which provide working capital



Phill Snelling,

in mundane transactions.

Libra is different and its competitive advantages have triggered regulators. ready ubiquitous, with a userbase of 1 scales billion+, Libra has Facebook's vast monetary and technical resources supporting it. Even if a third of Facebook's users backed by, and usually exchangeable for, sign up, Libra will have a US-size "popu-

LOW VOLATILITY LIBRA.

finance to any business, especially an SME,

are able to decide the fate of that business

Factor was spawned with a simple mission,

as and when they chose no matter how

profitable the SME is. The idea for Clear

to help small businesses access finance

without punitive interest rates.

Libra's key innovation is that it could be the first reliable highly-scaled cryptocurrency to achieve low volatility globally. The trading prices of most cryptocur-

precludes their consistent use in consumer and business transactions. Significant fiat currencies (the US Dollar, the Libra could rapidly and massively scale Euro, etc.) have low volatility against to the level of national fiat currencies. each other and rarely need to be ex-Facebook and its related products are al-changed given their large continental

"Stablecoins" just inherit volatility from another source. Stablecoins are a specific asset. For example, Tether's USDT claims to be backed by and exchangeable for one US Dollar. In one sense USDT has trivial volatility due to its US Dollar correlation. However, since the US Dollar is itself volatile against other crypto and national currencies, USDT inherits that volatility. The same holds true rencies freely fluctuate. This volatility for stablecoins backed by other assets.

Clear Factor's fair interest rate will be

the interest rate is agreed via smart

SME. If the SME rejects the offer, the

auction begins again. All invoices are

assessed twice - first by Clear Factor by

entering into a legally binding contract

underwriter in the debtor's country of

residence. Clear Factor uses Ethereum to

create smart contracts for the outcome of

cross-border money transfers of invoice

Clear Factor is focusing on micro and

small segments of the SME market - those

that are not currently serviced by banks for

mpositions, hidden costs or contractual

payment against the invoice. The only fee

withdrawal amount taken and this applies

Clear Factor has a mandate to make sure

For more information on Clear Factor please

is the ecosystem fee which is 1.0% of the

to the SME, individual investor and trade

that it is recession robust. It is about

financial crash and a repeat of 2008.

visit www.clearfactor.io

protecting SMEs from a possible future

binds and there will always be a quick

each invoice finance auction and Stellar for

with the debtor and latterly by an

finance in any currency.

contract mutual consensus. Investors

invest in different interest-rate pots. The

pot that fills up the earliest is offered to the

determined by the auction and agreed to

by the SME and during the invoice auction,

replace or supplant the US Dollar. Sta- Libra is not exchangeable for any part of avoid the impression that Libra accelerblecoins also have risks related to there it. Cashing out of Libra simply reverses ated China going public. being a single small private issuer.

Libra is different. When a user buys Libra, it is from an approved Libra ven-fiat market price for Libra. dor. The user pays in national fiat at the current exchange rate and receives scale and becomes a truly global Libra. These payments are deposited into medium of exchange. And, suppose it is the "Libra Reserve". The Libra Reserve low volatility like the US Dollar, but far Gordon's LinkedIn fund is invested in low volatility assets superior to most developing countries' such as the main national fiat currencies, deposits, and bonds. The nature out? What role then for national fiat IMPORTANT INFORMATION: THE VIEWS and diversity of the pooled assets should currencies? result in very low volatility.

uted to the Association members. Aladdress a trade imbalance is futile if all ADVISOR.

the purchase process, with the user receiving the current selected national

Libra's sovereignty implications are CRYPTO INSIDER AND IN THE CRYPTO A.M. The Libra Reserve's investment profits staggering. Many policy tools available SECTION SHOULD NOT BE TAKEN AS first go towards maintaining the Libra to countries would become ineffective. INVESTMENT OR FINANCIAL ADVICE. network, with the remainder distrib- For example, devaluing the currency to ALWAYS CONSULT WITH YOUR FINANCIAL

transactions are conducted in Libra

LIBRA'S US DOLLAR CHALLENGE.

The US Congress understands Libra's implications. In a July 2, 2019 letter to Libra, Congress wrote - "It appears that these products may lend themselves to an entirely new global financial system that is based out of Switzerland and intended to rival U.S. monetary policy and the dollar."

The main complaint regards a potential rival to the US Dollar. How is that thinkable? The global reserve currency, backed by the full might of the USA, and oil's trading currency, can be rivaled by. Facebook?!?

The unfortunate truth is that the US has long been debasing the US Dollar. Although the world has long resented the US' "exorbitant privilege", it was considered impolitic or dangerous to complain too loudly. BUT, as a consequence of Libra (and the US' defensive reaction) suddenly it is acceptable even for US allies to overtly discuss and take steps towards replacing the US Dollar. Even the Governor of the Bank of England (i.e., the US' best "special relation ship" ally) is speculating about instead using a basket of digital central bank currencies as reserves.

China announced plans for a national digital currency immediately after Libra was announced. This has been a long time coming, but China's move so Thus no stablecoin will fundamentally though "backed" by the Libra Reserve, closely followed Libra's that it is hard to

Gordon Einstein, Founding Partner of Suppose Libra achieves Facebook-like CryptoLaw Partners, in conversation with James Bowater. Further information visit https://cryptolawpartners.com and

http://linkedin.com/in/gordoneinstein

AND OPINIONS PROVIDED BY CITY A.M.'S

CRYPTOCOMPARE MARKET VIEW

Global Access to Cryptoassets on the Rise

ast week bitcoin failed to make any serious headway - remaining below the \$9,000 mark to trade at the time of writing at \$8,470. Ethereum (ETH) is trading at \$183, dropping slightly from last week's \$190 level. While prices haven't been rising other developments in the industry show how global access to cryptocurrencies is

Leading crypto exchange Binance last week revealed that it's looking to support 180 fiat currencies on its platform. Currently supporting the Euro, the Nigerian Naira, Russian Ruble, Ukrainian hryvnia, Kazakhstani Tenge, and the Turkish lira, the exchange is looking to capitalise on markets where crypto presents a viable alternative to volatile fiat currencies

Bolstering this trend, the number of Bitcoin ATMs throughout the world has now surpassed the 6,000 mark. Over three quarters of the machines installed globally are in North America, with nearly 20% in Europe and only 2% in Asia. In other positive news for investors, crypto

projects with real products are also growing The cryptocurrency-powered Brave browser which rewards users with Brave (BAT) tokens for viewing content, officially moved out of its Beta phase, after gaining over 8 million users across various platforms. To date, it has already powered 475 ad campaigns for brands like Pizza Hut and Intel. Last week also saw news that an unknow

fund pledge to support internet anonymity using bitcoin. Comprising "people from different countries who met on the 4chan English-language imageboard" the group intends to donate \$75 million worth of bitcoin to the development and protection of online privacy.

Finally, those looking to bet on the future price of bitcoin are set to be offered a new way to do so. Bakkt, a venture from New York Stock Exchange parent company ICE, is looking to launch cash-settled bitcoin futures. Complementing its existing physically-settled bitcoin futures product, the exchange is also set to launch bitcoin options on Dec 9th.

CRYPTO A.M. INDUSTRY VOICES

Will blockchain based decentralized applications take over the mobile industry?

word may not have reached the same levels as Blockchain and AI, however its potential impact on our infrastructure and systems has just as much potential. MONET was established to create an opensource infrastructure for decentralized mobile peer-to-peer applications. Its open source downloadable code enables decentralised applications to be built on mobile phones that envisages a future where like minded groups can congregate, exchange services and ideas in areas such as: transportation, delivery, housing, payments, networking and services.

One existing example of this technology being put to use is the news sharing app Twaddle, it enables users to share and discuss news stories with other users on the same local network. Twaddle uses MONET's consensus algorithm, Babble, to ensure that users see all submitted comments in the same order, thus removing the need for a centralized service, more importantly it enables users to own their data.

Twaddle's launch coincides with a time when the traditional media distribution model is rapidly evolving, the blockchain adds another dimension in how the news content and distribution model is conceptualized. MONET is introducing a suite of DApps to start building the next generation of mobile ad hoc blockchain applications. Users will be able to connect only when they need to and only for the duration of their interaction.

mation. MONET envisages a future whereby individuals are able to use decentralized applications to carry out tasks and complete transactions within small groups. By empowering individual citizens to have full control of their data, identity and digital assets, MONET's vision fulfills the original vision of an independent and For further information visit free Internet that its pioneers imagined in https://monet.network

ecentralisation as a theme and buzz- the early 1990s. We are not there yet, and won't be as long as blockchain remains synonymous in most people's mind with cryptocurrency.

> There is a growing awareness and discussion surrounding DApps, although real live practical applications are few and far between. MONET has been designed to ensure that the benefits of Distributed Ledger Technology can be applied to as wide a variety of mobile applications as possible such as the world's first decentralized chat app, Chatterbox. The Chatterbox app uses the Babble consensus algorithm to enable multiple mobile devices to chat without a centralised server. In addition to Chatterbox, MONET envisages being used to design ride sharing apps, accommodation portals and online platforms that will make up the digital economy of the future. In doing this MONET aims to unleash the promise and potential of decentralised, frictionless transactions and interactions between individuals who have traditionally been dependent on cen-

tralised systems and data silos. The last generation has seen the emergence of the internet and mobile phone technology transform how traditional business models operate. The creation of blockchain technology and emergence of digital currencies as a means of financial exchange free from intermediaries has created an additional dimension in terms of how internet services and goods are conceptualised. Concerns regarding misuse of data and the growing tion about why blockchain matters, the con Valley, is in part what fuelled the DApps that run on it, have the potential to creation of MONET, its mission is to create democratise the Internet and refocus it an open-source infrastructure for truly deaway from the technology giants that cur-centralized mobile peer-to-peer applicarently control most of the world's infortions that anyone can use and apply without handing over personal data. The technology now exists, only time will tell how it's applied and the impact it will have on how the internet and online services evolve.

Giacomo Puri Purini, Co-Founder of MONET.



lockchain is one example of a distributed ledger technology (DLT). The premise is that a ledger

of information is spread across multiple computers and kept in sync as new information is written to the ledger. As there are numerous copies of the ledger, any errors or tampering in one version are apparent. Thus the information in the ledger is tamper resistant — the more copies of the ledger, the better the security.

A network is created by connecting each of these different computers. The by different companies who have all agreed to work together and to accept that the information in the ledger is a single "golden record". This group of companies operates under their

Troy Norcross, Co-Founder Blockchain Rookies governance principles, and the companies themselves form a

Blockchain is having the most significant impact at the enterprise level in the area of supply chains. Companies are using blockchain to gain greater transparency into their supply chain. For downstream suppliers, they are benefiting from faster payments. Blockchain is allowing for increased product and financial liquidity across the supply chain. And of course, supply chains are often very to multiple carriers, wholesalers and retailers. And retailers may use various suppliers. This situation creates a web of goods, information and cash flows which can be recorded and tracked on the blockchain.

BLOCKCHAIN

NETWORKS AND VALUE

The network operates more efficiently because there is no need for reconciliation. Transfer of assets and funds are instantaneous and include finality. All transactions are auditable There is reduced potential for errors and fraud. When operating blockchain across a complex network, all participants can benefit.

Blockchain is more than cryptocurrency. It is more than just a shared set of information. Blockchain is a network of computers, enterprises which gives blockchain its value.

Get in touch with us: info@blockchainrookies.com/Twitter @igetblockchain







