ASIA INC.500

BLOCKCHAIN ARRIVES IN INDIA

BLOCKCHAIN TECHNOLOGY - A DIGITAL DISRUPTION IN E-GOVERNANCE

BLOCKCHAIN TECHNOLOGY REVITALIZES INDIAN INDUSTRIES

Exclusive Interview

ABHISHEK PITTI

Transfer of Trust in a Trustless World

Ngo Hoang Anh, Chief Editor

With the booming popularity of cryptocurrency and the whole world keen to invest in it, the technology behind it holds a certain fascination for all those who are amazed at the concept. I am talking about Blockchain technology, of course; the incorruptible distributed ledger that is the steering wheel behind the popularity and the success of cryptocurrency.

While blockchain has the ability to make transactions transparent and set in stone, it is this ability that has people like Marc Andreessen calling it an invention as big as the internet. Given that we live in an era where security is so hard to ensure and privacy is so hard to maintain, a statement like this seems apt for a technology that is transforming the future of global business. Enabling the transfer of power and control from big banks and governments to the individual instead, it negates the need for a central authority. That is the elegance of Blockchain. No wonder the proponents of blockchain describe the innovation as a "Transfer of Trust in a Trustless World".

Being ignorant about Blockchain technology was alright a few years ago when only the hard-core techies were familiar with the term. But today, as its influence seeps into every industry in the world, it is time to fully understand and appreciate this technology and everything that it means for the world. Those who are not aware and adept at Blockchain, it will only be a disadvantage when the world races ahead and leaves them behind. The phrase "shape up or ship out" comes to mind because unless we are equipped with knowledge about the Blockchain, prospects of growth in the financial world will be bleak.

With all the industries of the world slowly yet surely adopting this game-changing technology, the need of the hour is a proper understanding of Blockchain and how it works. Answering to this need and spreading awareness about Blockchain technology to the layperson, Asia Inc. 500 brings forth the first edition of its magazine on Blockchain which unleashes the arrival of Blockchain in India. This magazine is mainly designed and developed to elevate the wide range applications of the decentralized ecosystem that are potentially able to redesign interactions in business, government and society at large.

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About ASIA Inc. 500

Asia Inc. 500, along with its valued partners lays emphasis on exploring and recognizing 5000+ individuals and organizations every year across Asia and helps to reach out to a wide audience, prospective clients & investors.

Our platform is a great source of information and connect in areas of AI, Blockchain and other upcoming technologies and frameworks. At the end of every quarter, we choose and rank the best 500 organizations in various aspects all throughout Asia.

Content

The state of Telangana has always been a flag bearer of Technology in the country and had been at the forefront of adopting disruptive technological advancements. Continuing this tradition we have also been deeply involved in blockchain development and have been fostering a powerful support ecosystem in the state. We are proud to co-host this momentous event in the city of Hyderabad and look forward to interacting with Global innovators to create a powerful blockchain ecosystem with its epicenter in the state of Telangana.

KT Rama Rao
Minister for IT, Industries, MA & UD
NRI Affairs, Government of Telangana

Over the past few years, the government of Goa has quietly been building a world-class support infrastructure for technology startups and is becoming a destination of choice among several new age entrepreneurs. Blockchain and its possibilities have always been on our horizon and with the right partners, the International Blockchain Congress is the perfect platform to showcase our commitment to space. We invite innovators from all over the country to participate in the event and we look forward to working with the international industry experts to create a hotbed for innovation in the scenic state of Goa.

Rohan Ashok Khaunte
Minister of IT, Government of Goa

India is full of potential. Some of the smartest minds in our country are solving the hardest problems of our time using the blockchain. We are just lacking the required support system to realize this potential, and I strongly believe that the International Blockchain Congress is the first step towards building and nurturing the blockchain ecosystem. Special thanks to our supporters from the government, who will be integral in helping India's blockchain community realize its full potential.

Abhishek Pitti
Founder & CEO, Nucleus.Vision

"We are working on the adoption of frontier technologies. We will find out ways and means to implement artificial intelligence and blockchain in the fields of agriculture and land leasing."

Amitabh Kant
CEO, NITI Aayog


VIRTUS IN NUMERIS

History of Blockchain

The history of Blockchain is as intriguing as the technology itself and the association of cryptocurrency to the blockchain makes it for a heady concoction. This new world of Blockchain & crypto has all the attributes to make it one of the most interesting space today, whether it's the newness, the complexity, the randomness, the adoption of it which for the most part is still in the PoC stage and products are attaining maturity even as we speak (or should i say even as we write). Blockchain was invented by this genius called Satoshi Nakamoto in 2008 to serve as the public transaction ledger. What made it more interesting was the association of a cryptocurrency called bitcoin along with this technology, which served the purpose of incentive or payment for folks who did the hard work of managing and running the blockchain public network, also called mining.

However, Satoshi found a way to build a decentralized cash system. Though there were efforts for digital cash, all were a failure. Finally, his aim to build a peer-to-peer network for file sharing raised to the birth of cryptocurrency. The payment network has to resolve: double spending. A central server does this job and records the balances. A decentralized network will not have a central server. Every peer in the network needs to have a list with all transactions to check if future transactions are valid or an attempt to double spend. If the peers existing in the network disagree about a single, minor balance, everything rips apart. In fact, cryptocurrencies are part of this solution which is helping the world now. Among the cryptocurrencies, Bitcoin was the one and its mining is the ongoing process.

The Man behind the movement that's powering India's blockchain revolution

Abhishek Pitti - CEO and Founder of Nucleus.Vision is a blockchain enthusiast whose areas of expertise lies in Retail, Technology, Aerospace, and Infrastructure. Abhishek's vision to bring innovation to retail in Mom and Pop stores is the driving factor that led to the birth of Nucleus.

Nucleus Vision is a blockchain and IoT based startup that looks to leverage information to

transform the shopping experience users in the retail space.

The world is rapidly adopting blockchain and implementing it in private and public sectors and IBC is going to be India's ticket to join the International bandwagon. The International Blockchain Congress (IBC) will be Asia's biggest first of its kind blockchain conference which will witness the fusion of a public and private partnership. With over 3000 attendees, spread across 2 cities and 3 days, this event aims to create an ecosystem of blockchain enthusiasts consisting of thought leaders, blockchain experts, talent, startups, investors, Government regulators, academia, advisors, and mentors. IBC is co-hosted by NITI Aayog (think tank of the Government of India), Government of Telangana, Government of Goa, and Nucleus Vision- a blockchain and IoT based startup.

What is Nucleus Vision:

This technology-based startup aims at disrupting the traditional mechanism of retail. Using their proprietary sensor technology, Nucleus reads the mobile signature of the user to provide the retailer with information about the user. Blockchain and IoT play a major role in running this network of data. The sensor reads the users mobile signature without the use of RFID, Bluetooth, GPS, or Wifi and the sensors transmits this data securely over blockchain to the retailer to educate the retailer on the preferences of the user to offer a customized shopping experience.

Existing models are not accurate and cannot be relied upon, hence, it's imperative that a system that is reliable to formulate the groundbreaking strategy that will disrupt the retail experience for a user.

Studies indicate that over 80% of the customers that walk into a retail store do not make a purchase and are this is the area that Nucleus aims to conquer with an amalgam of blockchain and IoT. The future of this omnichannel shopping experience is to transform brick and mortar stores into connected stores and developing a unified loyalty program that is interoperable across brands.

nCash- Nucleus's unified loyalty program

Loyalty programs were introduced to make a rewards system that decreased customer churn. However, creating and maintaining loyalty programs is both difficult and expensive. Market research indicates that more than 80% of loyalty points are rendered non-redeemable as their existence is often forgotten by the customer. nCash is Nucleus' unified loyalty currency to address these pain points by forming a single form of loyalty rewards program that can is interoperable to extend its access for usage across various brands in the retail space.

Blockchain technology can be adopted in various private and public sectors to improve efficiency, reduce turnaround time, and maintain transparency while ensuring absolute security. Its implementations are far-reaching and also influence sectors like Healthcare, Retail, Supply chain management, Politics, Governance, Education, Banking, Real-estate, and Agriculture among others.

This conference is the stepping stone for India to join the global blockchain league.

The blockchain revolution is imminent, and there is still a large gap in understanding between technologists, business leaders, and government regulators. We want to bridge the gap, by inviting you all here to discuss and debate the potential, the possibilities and the regulations that surround blockchain tech. IBC is scheduled to happen on 3&4 August and will be conducted in HICC, Hyderabad.

THE ARRIVAL AND GROWTH OF BLOCKCHAIN IN INDIA

Raghavendra Hunasgi
Founder, Blockchain Nation

Rama Iyer
Sr. Vice President, T-Hub

In October 2016, ICICI bank became the first bank in India to deploy blockchain technology to execute the transaction in international trade finance and remittance, marking the arrival of blockchain in the Indian banking sector. Thanks to skyrocketing value of bitcoins, the year 2017 has seen the spectacular rise in the growth of cryptocurrencies in India despite warnings from RBI and the finance minister that the Indian government has not conferred any legitimacy on bitcoin. The RBI even barred banks and financial institutions from dealing in cryptocurrencies and has formed a panel which submitted a report on the desirability and feasibility of introducing a virtual currency backed by the government.

Despite all this, blockchain technology is being slowly embraced by governments in the country. Starting the trend was Bank-chain, India's first blockchain consortium, that was launched for banks last year. The promise of increasing transparency and providing effective governance is compelling state governments and private firms alike to adopt blockchain technology. Andhra Pradesh became the first state to adapt the disruptive technology.

In 2016, the state chief minister Mr. Chandrababu Naidu, had announced an ambitious FinTech Valley Vizag plan.This made Andhra Pradesh the first state in the country to introduce pilot projects deploying blockchain for the departments of civil supplies and land records in order to prevent cyber attacks on the data pertaining to subsidies and land ownership. Similarly, blockchain is being used in the transport department to streamline titles of vehicles.

The state chief minister also aims to transform Visakhapatnam to a world-class Fintech ecosystem bringing together government, academia, corporates, investors, and entrepreneurs.

Recently, the Uttar Pradesh government has decided to use blockchain technology to secure data pertaining to land and revenue records. Only a few states like Andhra Pradesh, Maharashtra, Karnataka, and Gujarat have undertaken the blockchain project on a pilot basis primarily for securing their respective and voluminous revenue records, which are most vulnerable to manipulation and tampering.

Srinivas Arsada
Chief Technology Advisor, Evolutyz Corp

The concept of cryptocurrency has gone from being considered illegal and banned towards acceptable. While the very basis of cryptocurrency lies in its decentralization, security, and transparency, it is this framework that has dominated the perspective of organizations to adopt towards blockchain and its technology. There are some Indian companies that are using blockchain technology to improve their services.

Currently, in India, there are already several cryptocurrency exchanges in use such as Zebpay, Coinsecure, etc. There are industry bodies and Fintech councils such as the Internet and Mobile Association of India (IAMAI) and the Digital and Blockchain Foundation of India (DABFI) that are joining hands to spread the knowledge of cryptocurrencies in the country and make it legitimate.

Amid an ongoing debate on the usage of cryptocurrency, there are some companies that have already begun providing financial services through the blockchain technology. Bajaj Finserv, a part of Bajaj Holdings & Investments Limited and India's most diversified NBFC, is using blockchain technology to improve customer service and other services like travel insurance to hasten the process of claims settlement.

India's software giant, Infosys, has created a blockchain-based network for trade finance and partnered with Axis Bank, ICICI Bank, IndusInd

Blockchain Technology Revitalizes Indian Industries

Bank, Kotak Mahindra Bank, RBL Bank, South Indian Bank and Yes Bank. In addition to offering unprecedented opportunities to transform banking, the blockchain technology will also bring in new paradigms in banking.

The Telecom Regulatory Authority of India (Trai) is planning to use blockchain technology to tackle spam calls. Over 30 billion commercial messages are being sent out every month, of which many are unsolicited and deploying this technology ensures that telemarketing messages are sent only to those who have subscribed to them. It can also be used to swiftly track the spammers.

Electrical equipment manufacturer Bajaj Electricals Ltd. also uses blockchain technology to pay suppliers. The distributed ledger technology is used to eliminate the manual steps involved in the process cycle for bill discounting.

The blockchain revolution after triggering financial services, trade, energy, government and most important media, it has finally come to the automotive sector. The Indian automotive sector

is looking to implement blockchain technology for its vendor management purpose. Companies like Mahindra and Bajaj have already started building their own blockchain technology.

Blockchain technology is helping industries across the verticals to secure data and bring in transparency in multiple processes. The innovative technology is finding favor even with the retail industry in India because of the transparency it ushers into the system. It is anticipated that very soon the retail will embrace this technology.

There are a few other blockchain initiatives in India that are facilitating the disruptive technology; MonetaGo, KrypC, and RecordsKeeper to name a few. Apart from these, there are still many industries in India that can benefit from the blockchain as the innovation unwraps the solution for the existing complexity. If the decentralized platform can ascend one's revenue and productivity, India's blockchain future would definitely be a merit to every sector.

Blockchain Technology for Government's Transformation

Rama Devi
Officer on Special Duty (OSD) at ITE&C Department, Government of Telangana

The term blockchain is identified with cryptocurrencies, bitcoins, in particular, but the usage is expanding rapidly to other areas and India could potentially become a hub for blockchain technology. The power of blockchain technology relies on Distributed and decentralized database, Peer-to-peer transactions, Transparency of transactions and Security. It guarantees security and robustness for all digital and financial assets and can transform business processes.

The impact of the blockchain is not just limited to banks but is extending well beyond the financial services sector. When applied to government processes, blockchain augments the credibility, accuracy, and efficiency of the practices while reducing the risk of frauds. Also, as it is possible to set up 'permissioned' Blockchains that enables governments to maintain the certain control over their transactions, the technology can be used in various areas such as land records, transportation, managing health records, voting in elections, peer-to-peer energy transactions, tax and welfare payments, and so on.

The use of blockchain for land dealings would bring revolutionary changes through inbuilt transparency, traceability, and efficiency in the system. The Information about land titles, ownership and usage and any changes to them is made visible to all the stakeholders. Many governments across the world are already exploring the use of this technology to bring order and efficiency in digitization of land records and property transactions. For countries that do not have a credible or trustworthy real estate ownership record and land registry, implementation of blockchain solution may increase the GDP in the medium term.

Blockchain Technology can also be used to secure critical documents such as educational certificates issued by government agencies/universities that are used for multiple purposes by citizens during their lifetime and hence there is a critical need to ensure the integrity of such documents. The certificates' transaction data will be stored on blockchain and the external user agencies such as other universities, banks, government agencies or any private organizations offering employment can verify the data submitted by the students against the data stored in the blockchain.

Another area that is of interest to government is to store health records on blockchain to provide increased security, transparency, auditability and governance for electronic systems and lifecycle management of patient healthcare records. Hospitals can securely store health data and share it on request to authorized doctors or medical professionals.

The blockchain spark has already spread like a wildfire across the nation enticing many major Indian companies and governments alike to experiment with the Proofs-of-Concept (PoCs). The Government of Telangana, with its visionary leadership, is at the forefront in leveraging blockchain technology in several areas mentioned above and collaboration between the industry and the government is key to the success.

Tech

Blockchain

Sri Rajendra Nimje
Director General, Centre for Good Governance, Hyderabad

The swift transformative progress that is needed in today's governance practices, has signaled to roll out a red carpet for new technologies including IoT, AI, and blockchain. While the first two became the innovation accelerators having a pervasive impact, the blockchain has recently emerged as a disruptive innovation revolutionizing e-governance.

An important function of the government is to maintain trusted information about individuals, organizations, assets, and activities. Managing and using these data can be a complicated and daunting task, even for advanced governments. The data must be protected against unauthorized access or manipulation with no room for error.

The increasing incidences of cybercrime in this digital age have placed organizations and individuals in the cyber warfare. We are in a perpetual battle with cyber-criminals, who are seeking information to hack, steal and sell. To combat the cybersecurity issue and overcome mistrust, new innovative approaches have evolved to provide the answer to a multitude of problems. One such innovation in the technology evolution for securing information is the blockchain technology.

Distributed ledger system or the blockchain technology allows the organization of any chain of records or transactions without the need for intermediaries. This is achieved through cryptography that helps to maintain a continuously growing database of records which are protected against tampering and revision.

Blockchain Technology

A Digital Disruption in E-governance

It ensures transparency in e-governance. This technology in e-governance can act as a catalyst in managing and securing the digital data and digital assets. From the protection of critical data to digital property ownership, blockchain technology ushers in the digital technology.

The governments can consider experimenting blockchain on multiple governance issues - Land registration, Tax data exchange, Domestic tax management, voting from blockchain, transport, and other government applications. Harnessing the power of blockchain and its unprecedented cybersecurity, a couple of states in the country have adapted to this technology. Maharashtra, Telangana, Andhra Pradesh, and Karnataka state governments have already incorporated the active area of innovation.

Kerala government has set a new standard of e-Governance by launching several interesting projects, powered by blockchain. In a recent development, it has now decided to use IoT and Blockchain to optimize the supply of fast moving products like fish, milk, and vegetables in the state.

Blockchain benefits are far away from what we expect. It ensures the best it has. Among its benefits, blockchain for public sectors eases the governance. The promise of transformation can only be realized by knowing what Blockchain is and what it can do for governance. With the enormous potential of Blockchain, it is more of a strategy matter than an IT matter. Having a shared understanding of the decentralized future of governance will help the governments to achieve their long-term vision.

ELEVEN01 - INDIA'S HOMEGROWN BLOCKCHAIN FOR THE WORLD!

Ausaf Ahmad
Global CEO, Eleven01

Rama Iyer
India CEO, Eleven01

India is now entering the blockchain space with Eleven01 and this is not just another blockchain protocol that focuses on performance and scalability issues, but rather focuses on creating a platform for the perfect amalgam of technology and governance to perform in a seamless fashion.

Introducing Eleven01

Eleven01 is one of the fastest, highly scalable blockchain protocol which aims to make blockchain technologies ready for real-world use starting from India as a beachhead market for the public as well as private workloads.

The core value proposition is to create a blockchain protocol that can be used by existing real-world applications and for applications that demand inherent privacy, high transaction speed, and scalability.

It is Ausaf Ahmad, global CEO of Eleven01 and Rama Iyer, CEO pan-India Eleven01 that run the show. Ausaf is the founder of the Azure Blockchain Council and is the former blockchain and IoT lead at Microsoft before joining Nucleus Vision as a technology advisor and later founding Eleven01. Previously, Ausaf has had a stint on Wall Street as an investment banker and led the airplane propulsion integration group at the Boeing Company.

Rama Iyer - Senior Vice President at T-Hub, is responsible for stitching and nurturing strategic relationships and for creating Center of Excellence programs that help the startup community at T-Hub. He is Senior Advisor on Innovation for the State of Assam, iHub (ICRISAT) and for Emerging Tech, CoE, State of Telangana.

'Eleven01 is an India-centric blockchain protocol that focuses on the unique data and privacy needs of a country with more than 1 billion people. With a novel transaction engine, secure by default inherent privacy, dynamic consensus, and turnkey account management solutions, Eleven01 is set to revolutionize governance and commerce alike, ushering into an era of higher efficiency and productivity in India and beyond.' says Ausaf.

Rama Iyer says 'With Eleven01 we intend to create the next generation blockchain protocol which will solve critical government use cases and also provide flexibility to take care of enterprise-class deployments'.

Why Eleven01?

Today different blockchains are attacking the problem from different angles. They are either looking at a deeper consensus or are coming up with protocols that offer faster transaction speeds. There is a scarcity of plug and play modular approach with respect to blockchain that reduces time to value and time to market with industry-specific components.

Eleven01 attempts to solve this with a unique and innovative approach where technology and private, as well as public sector, including local and state governments can integrate into a seamless fashion while retaining much-needed security and flexibility in data storage migration.

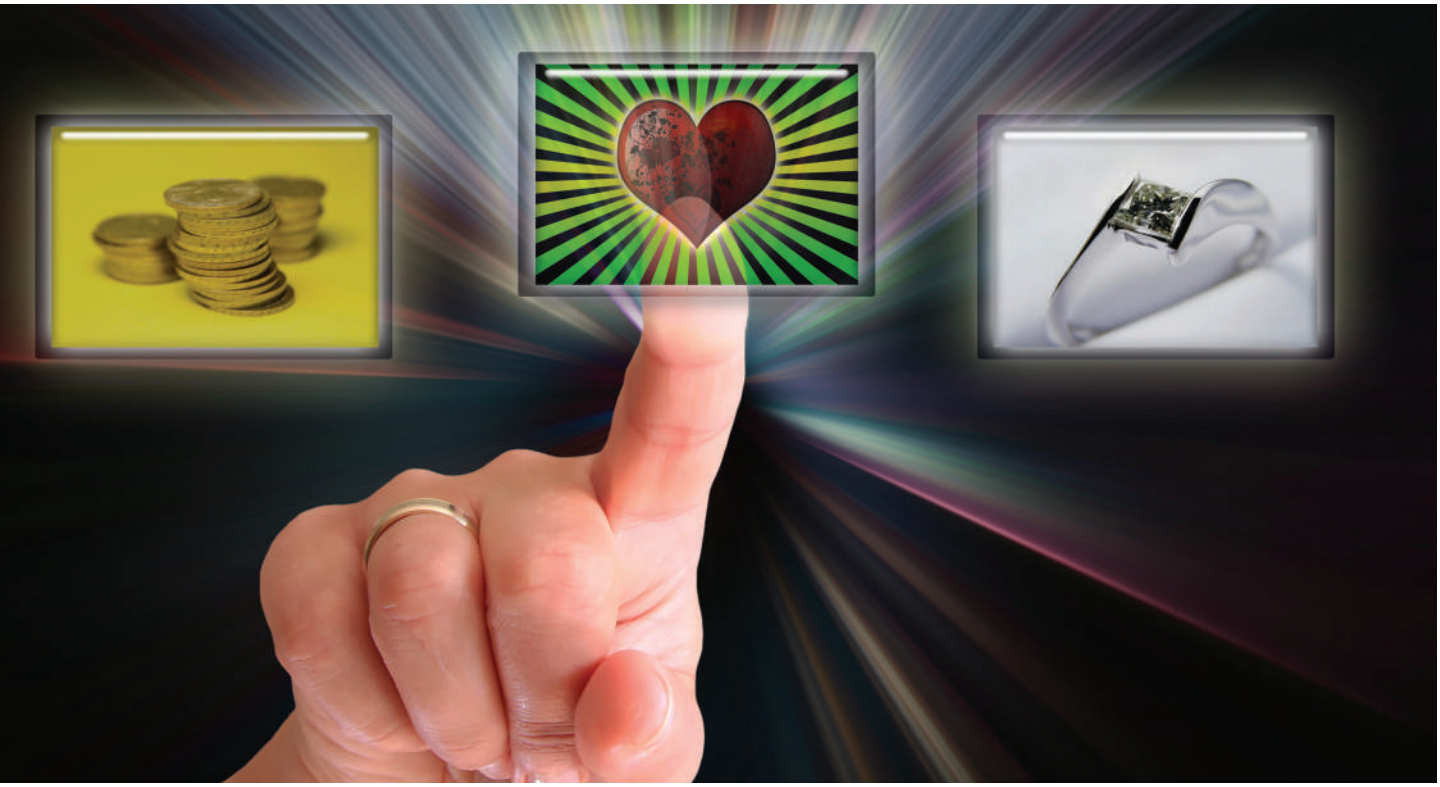
Our Goal is to create a consortium of different blockchain protocols that work towards knowledge sharing and interoperability.

Blockchain now Incorporated into MBA CURRICULUM

Havish Koneru
Vice-president, K L University

Despite the huge fluctuations in Bitcoin with the price of each Bitcoin skyrocketing and crashing invariably, it looks like the demand for one has still been unprecedented. While the craze for bitcoin has been shifting to continents to countries to cities around the globe, business schools are no exception to it. The digital currency mania has gripped the business schools as well receiving much demand from the students and executives wanting an education in bitcoin and others. The emerging cryptocurrency market has now acquired a strong foothold in the MBA curriculum with Blockchain and others being incorporated into the syllabi.

Cryptocurrency course has entered the campus in 2014, with NYU Stern School of Business, becoming the first major university to launch a course in the field of blockchain and cryptocurrencies. It was later followed by few other top US business schools joining the race to incorporate blockchain education.



Below are the top Universities offering Blockchain courses

1. NYU Stern School of Business

The Stern School of Business at NYU is the first major US academic institution to offer a course in cryptocurrencies to its graduate students in 2014. David L. Yermack, the Albert Fingerhut Professor of Finance and Business Transformation at New York University Stern School of Business, is the professor who teaches this course. The NYU Stern cryptocurrencies course which had a few dozen students when it started out has now grown to have more than 100 students and is expecting many. With the increasing demand for the course, the University now plans to offer a new option for undergraduates as well to learn about the field.

2. Duke University - USA

Fuqua School of Business, Duke University, offers the course "Innovation and Cryptoventures" focused on blockchain technology. The course is taught by Campbell R. Harvey, Professor, Fuqua School of Business, Duke University. The school does not simply offer a course exploring transactions in bitcoin, but the idea of the course is to understand a disruptive technology and to assess its implications on how business is conducted in the future.

3. Princeton University - USA

NNew Jersey-based Princeton University offers a blockchain related course called "Bitcoin and Cryptocurrency Technologies." This is an online course offered via Coursera and addresses important questions about Bitcoin. The course covers the most prominent and recommended questions like: How does Bitcoin work? What makes Bitcoin different? How secure are your Bitcoins? How anonymous are Bitcoin users? What determines the price of Bitcoins? Can cryptocurrencies be regulated? What might the future hold?

4. Stanford University - USA

California-based Stanford University offers a blockchain related course called "Bitcoin Engineering" and teaches its participants how to make Bitcoin-enabled applications. The course covers all aspects of cryptocurrencies, including distributed consensus, Blockchains, smart contracts, and applications.

5. University of California - Berkeley - USA

The University of California offers an open-source undergraduate cryptocurrency course for their students. There is a student-run organization at UC Berkeley which organizes the largest crypto meetup in the East Bay and hosts tech talks, developer tutorials, workshops and more. It also builds side projects and does research with cutting-edge blockchain and crypto technologies.

6. Cyprus' University of Nicosia – Cyprus

The University of Nicosia is the leading university in Cyprus and one of the largest English language universities in the Mediterranean region. The University offers the first Master of Science degree in Digital Currency, available worldwide through an online format. The first course in the degree, "Introduction to Digital Currencies", is offered for free as an open enrollment MOOC course to anyone interested in learning about the fundamental principles of Digital Currency. The University of Nicosia is also the first accredited university in the world to accept Bitcoin payments.

7. University of Cumbria - UK

The University of Cumbria launched a free online Master-level course that focuses on the future of money. Among other things, the course will seek to address the dangerous assumption prevalent in the

bitcoin community, that money is best understood as an asset with value in itself. UK's University of Cumbria was the first educational institution to receive a tuition payment in Bitcoin and it accepts only bitcoin for two specific courses.

8. IT University of Copenhagen - Denmark

The IT University of Copenhagen organizes Blockchain Summer School that focuses on educating students in the blockchain technology to be able to develop solutions within three focal industries. The participants will learn how blockchain technology is disrupting existing business models and will gain insights into paradigmatic changes occurring from economic, organizational and computer science viewpoints

9. Blockchain University - USA

Blockchain University offers a unique platform for education, talent development, and ideation for the global blockchain ecosystem. Through public & private training programs, hackathons & demo events, the university enables startups and corporations to initiate powerful blockchain innovations across industry sectors.

10. B9 Lab Academy - UK

B9 Lab Academy offers world-class online training in blockchain and decentralized applications for developers, technical experts, and analysts. The course is aimed at experienced technical stakeholders, introducing everything needed to understand the technology, smart contracts and both technical and social frameworks relating to the technology. The course goes into the underlying theory of blockchain, covers Bitcoin, Ethereum and Hyperledger in depth and provides an overview of many other protocols both in public and managed networks.

The 10 Most Influential

The global blockchain space has experienced an extraordinary growth over the recent years. The decentralized ecosystem has thousands of innovative companies from across the globe in its cluster. These companies are leveraging the benefits that blockchain technology provides while trying to solve market inefficiencies. The digital ledger system also has millions of backers and unshakeable believers across the globe. Here are the top influencers and thought leaders from the blockchain landscape.

Don Tapscott - Don Tapscott, CEO, The Tapscott Group, is a leading analyst in the blockchain industry and also the author of 15 books on blockchain-related concepts. His recent book, Blockchain Revolution published in 2016, describes the Bitcoin impact in Business and the World. Don is a member of the Order of Canada and is ranked the 2nd most influential management thinker in the world by Thinkers50.

Marc Andreessen - The Silicon Valley investor and the Co-Founder & General Partner of the venture capital firm Andreessen Horowitz, Marc Andreessen, is a Bitcoin enthusiastic. His influential venture capitalist firm invests in Bitcoin and related startups.

Vitalik Buterin - Vitalik Buterin, the creator of Ethereum, co-founded Bitcoin Magazine. The 23-year-old was involved in the Bitcoin community since 2011, writing articles for Bitcoin magazine and attracting the individuals with Ethereum's success. Vitalik founded the way to handle financial transactions which were not met by Bitcoin

Laura Shin - The Crypto Journalist who hosts the crypto podcasts Unchained, managed Forbes's coverage of crypto assets, Bitcoin, Ethereum, cryptocurrencies, ICOs, tokens, and blockchain technology. She was the co-lead reporter on the Forbes Fintech 50 list. She won the 2016 Blockchain Award for Most Insightful Journalist.

Nick Ayton - The Blockchain Evangelist, Nick Ayton, is regarded as one of the world's most influential Thought

People in Blockchain

leaders in Blockchain technology, Cryptocurrency, and Tokenomics. He is an accomplished writer, speaker, and Blockchain business architect who founded The 21 Million Project, the world's first crypto-funded TV drama about the Bitcoin Revolution. Nick also hosts new Crypto Game Show "Chainstarter TV".

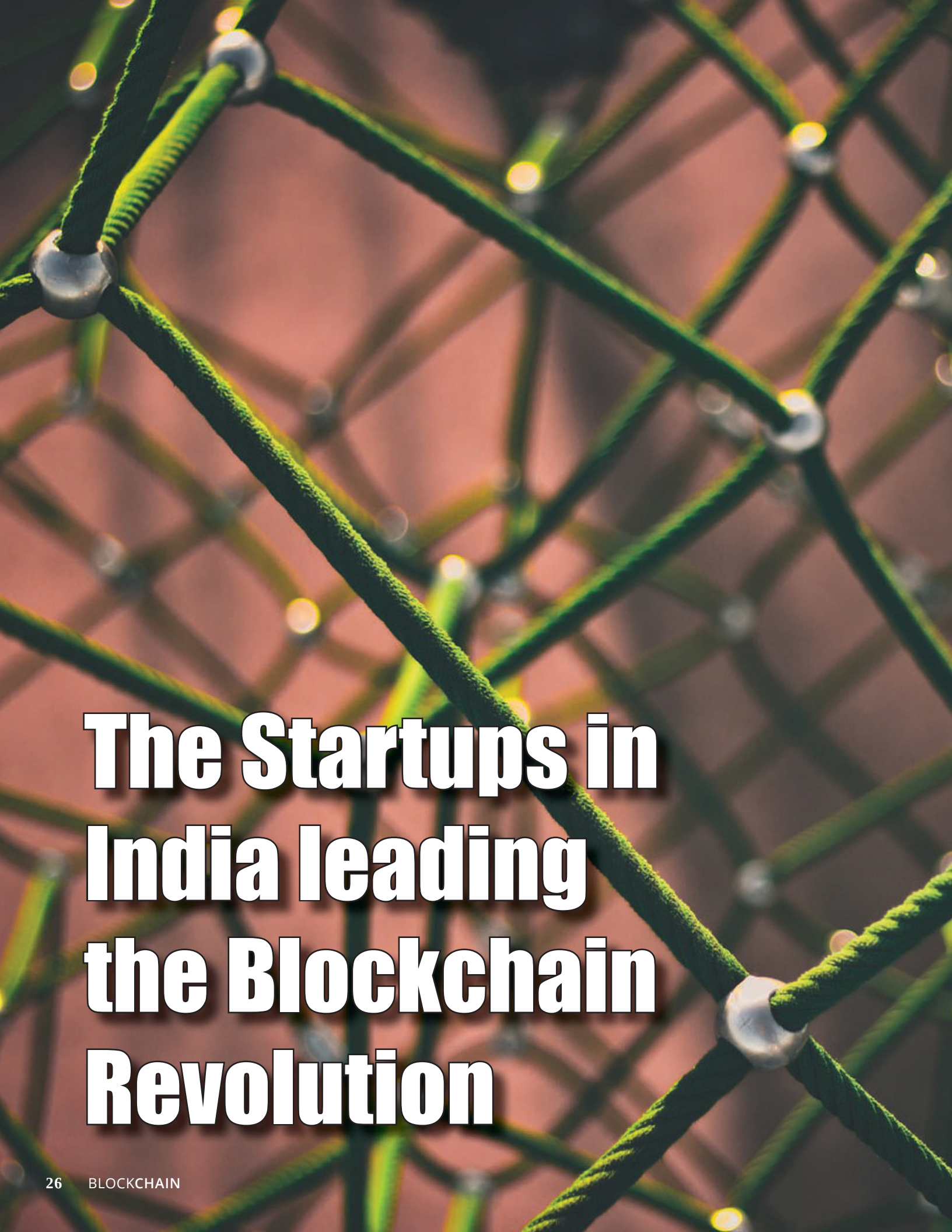
Naval Ravikant - The CEO and Co-Founder of AngelList, Naval Ravikant, is an Indian-born and the Silicon Valley legend. The influential investor is an important voice in the fledgling cryptocurrency industry who tweets about blockchain and how it can transform the world.

Roger Ver - Roger Keith Ver, also known as Bitcoin Jesus, is a cryptocurrency superstar who invested a large amount of money in cryptocurrency-related startups. As an early investor in bitcoin-related startups, Ver has been a prominent supporter of bitcoin adoption who now promotes Bitcoin Cash, a hard fork of the cryptocurrency.

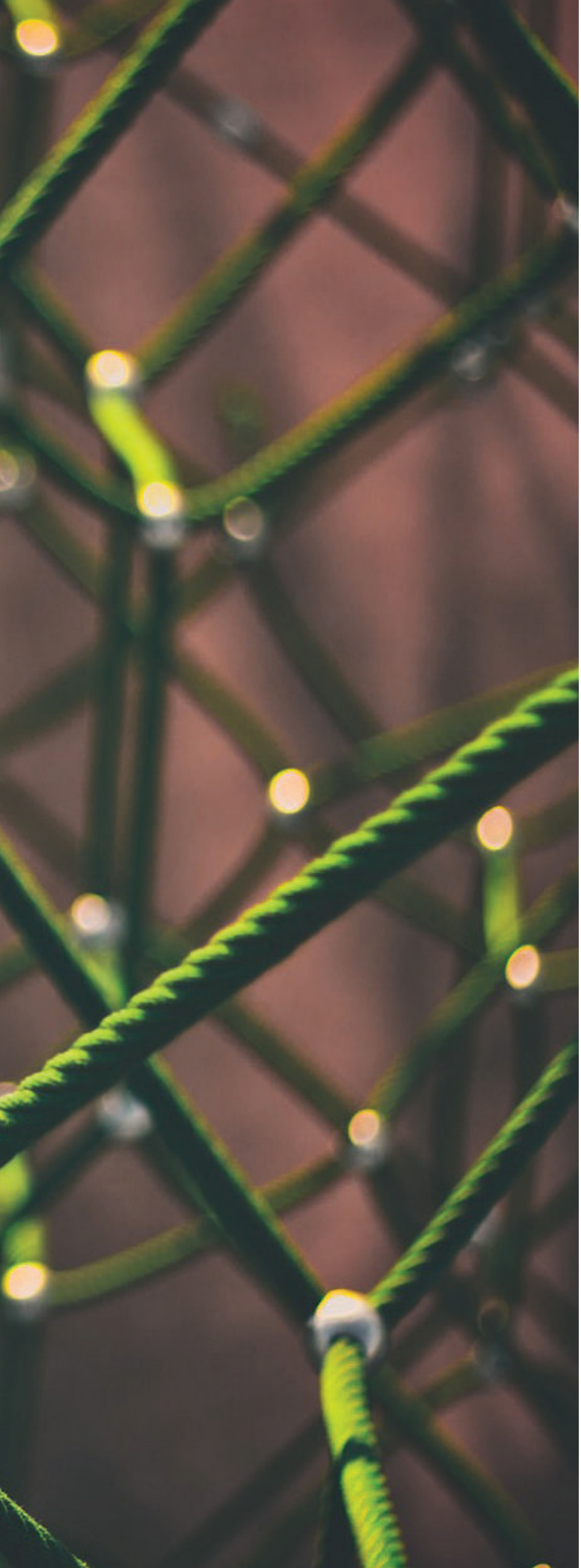
Vinny Lingham - Vinny Lingham, the founder, and CEO of Gyft, a Bitcoin-based digital gift card platform, is a famous internet entrepreneur and one of bitcoin's leading luminaries. Nick-named as Bitcoin Oracle, Vinny is also the Co-Founder & CEO of the startup Identity Civic which offers the use of blockchain technology to verify users online.

Jim Marous - One of the most influential people in banking and a Top 5 Fintech Influencer, Jim Marous, is a Publisher and a Fintech Strategist. He is a sought-after keynote speaker, author and recognized authority on disruption in the financial services industry who advised the White House on banking policy.

Erik Voorhees - Erik Voorhees is a dedicated supporter of Bitcoin, who is the founder and CEO of the instant bitcoin and altcoin exchange startup Shapeshift. He is also the Co-Founder of Coinapult, a bitcoin company. Erik is a Bitcoin defender who is among the top-recognized serial Bitcoin advocates and entrepreneurs.



The Startups in India leading the Blockchain Revolution



Blockchain has been quite a buzzword ever since Mr. Arun Jaitley, Union Minister of Finance and Corporate Affairs, made a statement during the Union budget 2018-19. Presenting the budget, the minister said that the government was looking at adopting blockchain technology for disrupting and streamlining various sectors. Prior to that, there were few companies that debuted the startup space to harvest the latest tech disrupt. Responding to the crypto era, these startups have acknowledged the fact that Blockchain is a revolution that can be used for other wide range of scenarios other than just cryptocurrencies. And the result, they are now the most innovative blockchain startups in India.

1. Primechain technologies

Founded by Rohas Nagpal and Shinam Arora in 2016, the Pune-based startup is mainly involved in developing blockchain-based solutions for the banking system in India. Apart from exploring, building and implementing blockchain-based solutions for 37 members across the globe, it also maintains blockchain security controls and recommendations for blockchain implementations. The fledgling startup also operates a permission blockchain for sharing and monetizing of corporate data & records and has made its foray into cross-border remittance.

2. KrypC

Founded in February 2016 by Ravi Jagannathan and Venkatraman Viravanallur, the startup has a team of researchers and tech experts in the domains of digital signature certifying authority, online tax filing, and pre-paid mobile wallet. The startup aims to be a B2B platform that enables businesses to understand the power and utility of Distributed Ledger Technology (DLT), assess potential areas of application, provide technical framework & design, and carry out the effective implementation of the solution.

3. Elemential

The Mumbai-based startup is building a blockchain development ecosystem that aims to make enterprise adoption a hassle-free experience for both the enterprise and the developer. Their offering is a product called Hadron, that makes blockchain administration a secure and easily managed process. This will help blockchain innovators of tomorrow design, run & scale networks with exponentially lower overhead.

4. RecordsKeeper

RecordsKeeper was founded in November 2016 by Toshendra Sharma and Rohendra Singh with a team comprising of blockchain developers and marketing veterans. RecordsKeeper has created an open-source, immutable public database using blockchain technology, which can be utilized for storing and sharing data by millions of users. A new block of data is created every 15 seconds at present. The startup offers a complete suite of structured and easily accessible record keeping for use by organizations and individuals.

5. Signzy

This Bangalore-based blockchain startup is a Fintech company that makes life easy for banks, NBFCs, and financial institutions. Signzy currently offers a digital onboarding solution for various institutes in the financial ecosystem. Since regulatory compliance is still an offline process despite banks going digital, Signzy intends to bridge the gap through a clever combination of Artificial Intelligence and Blockchain.

6. Sofocle Technologies

The Delhi-based startup comprises of researchers, developers, project managers and consultants with expertise in HyperLedger Fabric, HyperLedger Sawtooth, Ethereum, Multichain and Smart Contracts. The startup aims at building products and solutions for various industries including but not limited to Finance, Insurance, Healthcare, Manufacturing, and Logistics.

7. EzyRemit

EzyRemit was founded by Vishal Kanvaty and Abhijit Jaswal in the year 2015. It has come out with products like EzyRemit, EzyHedge, EzyRemit B2B provides, with a mission to provide blockchain-powered solutions in the remittance space. They aim to serve organizations looking to adopt blockchain and cryptocurrencies for validation of trust, simplification of processes and distributed computing.

8. GetXS

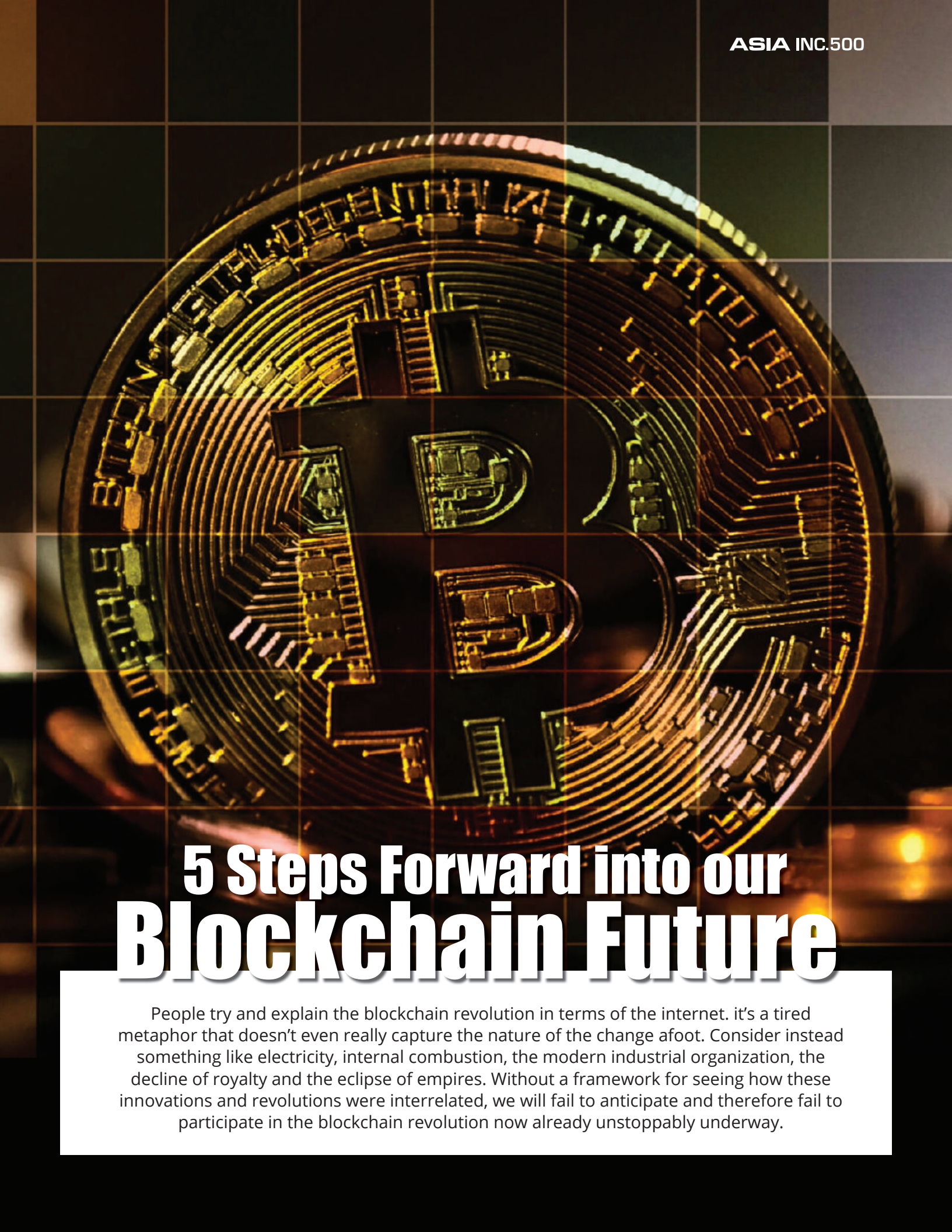
GetXS was founded by Hitesh Malviya in 2016. GetXS is developing digital identities based on blockchain technology for users to authenticate securely over the Internet. They offer their services in diverse fields like Online Marketplace, Healthcare, Financial Services and Property Management. The startup is focused towards building blockchain based digital identities for secure authentication of users over the internet and has created 40,000+ XS IDs so far.

9. StaTwig

StaTwig is an early stage IoT and Blockchain startup based in Hyderabad. The firm aims to solve the problem of global wastage in vaccines and food caused due to inefficiencies in the supply chain. The startup uses Blockchain and Internet of Things to track and trace products along the supply chain from the manufacturer to the customer, to record and provide tamperproof data to all the stakeholders involved.

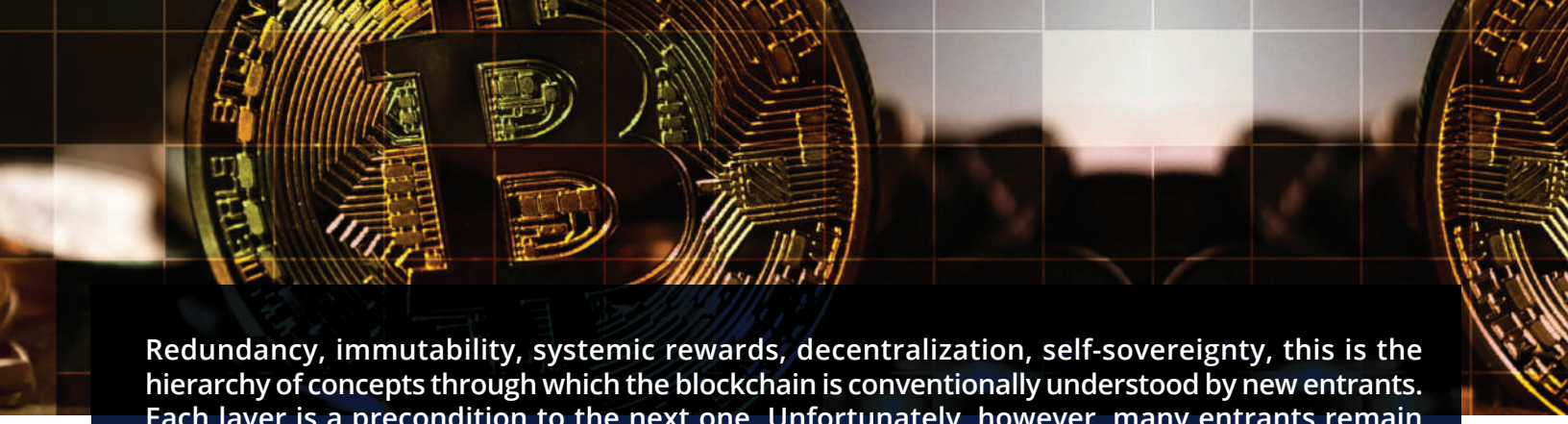
10. Somish Solutions

Somish was founded on the principle of 'Management through technology' in 2006 by Mr. Shiv Goel. Somish Solutions offer blockchain-based solutions for a wide range of applications including but not limited to P2P insurance, aviation maintenance, subsidy distribution, crisis fund distribution, bill discounting, tokenized fund transfers, etc. Its blockchain product GovBlocks aims at developing Dapps (decentralized applications) based on the Ethereum blockchain platform.



5 Steps Forward into our Blockchain Future

People try and explain the blockchain revolution in terms of the internet. it's a tired metaphor that doesn't even really capture the nature of the change afoot. Consider instead something like electricity, internal combustion, the modern industrial organization, the decline of royalty and the eclipse of empires. Without a framework for seeing how these innovations and revolutions were interrelated, we will fail to anticipate and therefore fail to participate in the blockchain revolution now already unstoppably underway.



Redundancy, immutability, systemic rewards, decentralization, self-sovereignty, this is the hierarchy of concepts through which the blockchain is conventionally understood by new entrants. Each layer is a precondition to the next one. Unfortunately, however, many entrants remain stuck at a lower level of understanding, never making it all the way to the end. This gives rise to many pointless conflicts and asymmetric conversations. To promote better understanding in the world, therefore, I invite readers of this brief piece to try and journey through all the way to the end of the line, and not to let go before then.

1. A blockchain is stored not on any particular server but as multiple copies around the world, whose identity is repeatedly verified through a simple democratic check: Do at least 51% of the locations agree with one another? This means that the blockchain is at heart of a distributed ledger, inherently redundant and therefore more expensive to maintain.

2. Because all the locations must agree, it is usually impossible to make interpolations in the existing dataset even though it can keep growing as a time-bound set of sequential entries of data. This suggests immutability: Once inscribed, an entry cannot be modified or changed either by stealth for through the application of force by any agency, internal or external.

3. The operation of nodes on true blockchains is economically incentivized through a different mechanism than in merely distributed ledgers. This distinction may prove to be as important in the future as the distinction between horse-drawn buggies and the modern automobile. True blockchains offer systemic rewards that are denominated in the same unit of value as is maintained in the blockchain itself. Ao long as people maintain the blockchain it will have value, and the value they unlock will be the value tracked by and through the chain they maintain.

4. Thanks to an identity between the unit of account and the systemic rewards. A protocol like the bitcoin blockchain can become truly decentralized, meaning that no one agency or person is ultimately responsible for maintaining it and therefore that there is no single point of failure through which the blockchain can be brought down.

5. Finally, as a result of distributed systemic reward architectures, blockchains are ultimately immune from diktat, command, fiat or any local action by territorial structures of authority. Rather, they are the self-sovereign expression, the interactional consensus of their own collective and community. This is the point at which the political-economic logic of blockchain-based decisioning begins to pull apart the logic of the 20th century's international order, based as it was on the internationalization of the industrial paradigm and its reconciliation a new territorial logic of national governance.

Too much of the discourse around blockchain in India focuses on actual database logic of the technology and too little on the economic, organizational and paradigmatic changes which must now arise from the foundation that these now protocols provide. If you have made your brave way through to the last and final step above, you already surely see that everything must now change. If you have arrived up to this point of clarity and understanding, you really have no choice but to begin working together to build our global decentralized future.

Role of Blockchain in Tracing Organic Food

Uma Iyer

Today, we are living in a world where lemonade is made from artificial flavors and furniture polish is made from real lemons. We all want to eat organic food and stay healthy come what may be the price. Now, after spending so much money on organic food, will we want to be cheated with chemical-laden stuff by the name of organic? I don't think so. So, how do we find out the source of the products we buy and ensure that we are not cheated? This is where blockchain comes in. What is blockchain? The blockchain is a technology in which information is stored as blocks. This is distributed technology and is also known as DLT (Distributed ledger technology) and provides the participant's incentives by way of bitcoin or other cryptocurrencies such as litecoin, nucleus vision, V-chain, bitcoin diamond, bitcoin gold, etc. Blockchain also helps us source our products and find relevant information about its origin such as who grew it, which field it was grown in, when it was grown, whether chemicals were used when it was harvested, where it was stored, which truck it was in when it reached the shelf, etc. So, now we have the source. But what if this information on which I am dependent is tampered with? Well, in blockchain this is not possible as it is a distributed technology and so the information cannot be withdrawn, changed, deleted or tampered with, hence making it a reliable and secure source. Now, this makes it fairly easy for us to find out whether it is organic or not. Many have already made use of this wonderful technology and have loved it! Walmart is a phenomenal example of this. So, organic food ensured. 100%.Cool right? Could you ever have imagined of any technology with so many uses? Well, now we have blockchain. Blockchain's arrived and it's arrived for good. But eating good food is important. Give your body good food to eat, it is the only place you get to live. So, pay the organic farmer now or pay the pharmacy later.

Societal Impact

Rohit Pothukuchi

Societal Impact is the most important aspect that can change the way this world looks, feels and will continue to exist as humanity continues to chug forward.

Societal Impact is not an option for how dramatically the world is changing. It is the key to create economic balance, livelihood for many, food for many, empowerment of the downtrodden and a smile on everyone's face.

We are trying to create a universe where SOCIO can be an instrument and create societal impact in a – FAST, EFFICIENT, HUMANE & IMPACTFUL fashion.

Come, join the journey and take the first step towards creating your SOCIO impact.

Blockchain Future Technology Trends

Aravind Babu

In this article, I am planning to cover future technology trends of blockchain at a high level dICO, decentralized ICO. Traditional ICOs are not decentralized. They have several problems because of their centralization.

First, a traditional ICO takes place on a single node. For instance, you might purchase an ICO token on a website, which is running on a single server. The process of making the purchase is handled by this one server. No matter how fast the machine, the software to accept your funds can only accept one transaction at a time.
Second, a user must send their funds to the ICO website, where the funds are held in escrow. This period of holding and validating transactions can take weeks, if not months before the ICO tokens are distributed.

Sophisticated and wealthy bot programmers (often called "whales") have an unfair ability to purchase the coin supply during the opening moments. Observe the histories of Decentraland and Binance for examples. In both cases, all the ICO tokens sold out in moments. As the demand for the products was highly likely to rise, the whales had merely to wait a few months, and then sell their tokens to the less wealthy and less technically savvy audience at a dramatically increased price.

dICO created more opportunities for average investors. After you make your traditional ICO purchase and your funds are sitting in escrow, it is extremely vulnerable to human faults such as hacking, theft etc. When a dICO is released, not all of the coins are located on one server. Instead, they are split up and scattered across as many nodes as the dICO administrator chooses (some can use upwards of ~100 separate servers). A whale trying to purchase all the supply would have to purchase everything at each server simultaneously – an extremely hard thing to do.

Secondly, in a dICO, the creator has the option to program the coins to release not all at once, but rather at a customized rate. For instance, 45% of the supply could be available immediately, then 15% releases a few days later, and so on until the entire supply is available. Now, a whale would have to continually compete for days on end to purchase the entire supply.

DEX

The current, most practical method for cryptocurrency exchange requires the use of centralized exchange services. Such centralized solutions require vouchers to perform the exchange. Among many dangers present in this system, end-users are under the constant risk of their assets being stolen either by an inside theft or an outside hack. Furthermore, the operators of centralized exchanges an exhibit bias in how they facilitate trading among their users. They can also create fake levels of volume in their exchange. To eliminate such dangers and limitations requires the creation of a decentralized-exchange alternative.

A decentralized exchange is an exchange market that does not rely on a third-party service to hold the customer's funds. Instead, trades occur directly between users (peer to peer) through an automated process. This system can be achieved by creating proxy tokens (crypto assets that represent a certain fiat or cryptocurrency) or assets (that can represent shares in a company for example) or through a decentralized multi-signature escrow system, among other solutions that are currently being developed.

The most obvious benefit of using a decentralized exchange over a centralized one is their "trustless" nature. You are not required to trust the security or honesty of the exchange since the funds are held by you in your personal wallet and not by a third party.

Another advantage to the decentralized model is the privacy it provides. Users are not required to disclose their personal details to anyone, except if the exchange method involves bank transfers, in which case your identity is revealed only to the person that is selling or buying from you. Furthermore, the hosting of decentralized exchanges is distributed through nodes meaning that there is no risk of server downtime.

Atomic swap

Atomic swaps, or atomic cross-chain trading, is the exchange of one cryptocurrency to another cryptocurrency, without the need to trust a third-party. A relatively new piece of technology, atomic cross-chain trading is looking to revolutionize the way in which users transact with each other. For example, if Alice owned 5 Bitcoins but instead wanted 100 Litecoins, she would have to go through an exchange, i.e. a third-party. However, with atomic swaps, if Bob owned 100 Litecoins but instead wanted 5 Bitcoins, then Bob and Alice could make a trade. In order to prevent, for example, Alice accepting Bob's 100 Litecoins but then failing to send over her 5 Bitcoins, atomic swaps utilizes what is known as hash time-locked contracts (HTLCs).

Hash time-locked contracts ensure that the atomic swap process is completely trustless by ensuring both fulfill the requirements of the trade. HTLCs require the recipient of a payment to acknowledge receiving payment prior to a deadline by generating a cryptographic proof of payment. Or the recipient risks losing the right to the claim the payment, therefore returning the funds back to the sender.

Therefore, for a trade between Alice and Bob to take place, both must submit their transaction to their respective blockchain, Alice on the Bitcoin blockchain and Bob on the Litecoin blockchain. In order for Alice to claim the 100 Litecoins sent from Bob, she must produce a number that only she knows, used to generate a cryptographic hash, therefore providing proof of payment. Similarly, in order for Bob to claim the 5 Bitcoins that was sent from Alice, he must also provide the same number, that was used to generate the cryptographic hash.

Blockchain meeting IoT

By combining blockchain and IoT more and more advanced applications like intelligent insurance policies, cooperatively owned self-driving cars shared machinery, community shared solar energy, wastewater treatment systems, shared office spaces etc will evolve and more transparency will come in these applications.

PoS, DpoW, HoneyBadgerBFT

More and more new consensus algorithms will come which will reduce energy consumption, increase performance and increased security. In proof-of-stake public blockchains, like Ethereum's upcoming Casper implementation, a set of validators each bet on blocks they deem likely to be validated, and the weight of each validator vote depends on the size of its deposit. Punishments are levied on bad actors who bet on more than one block at a certain depth or who don't participate when they are supposed to.

Delayed Proof of Work (dPoW) is a hybrid consensus method that allows one blockchain to take advantage of the security provided through the hashing power of a secondary blockchain. This is achieved through a group of notary nodes that add data from the first blockchain onto the second, which would then require both blockchains to be compromised to undermine the security of the first.

Most fault-tolerant protocols (including RAFT, PBFT, Zyzzyva, Q/U) don't guarantee good performance when there are Byzantine faults. Even the so-called "robust" BFT protocols (like UpRight, RBFT, Prime, Spinning, and Stellar) have various hard-coded timeout parameters, and can only guarantee performance when the network behaves approximately as expected - hence they are best suited to well-controlled settings like corporate data centers.

HoneyBadgerBFT is fault tolerance for the wild wide-area-network. HoneyBadger nodes can even stay hidden behind anonymizing relays like Tor, and the purely-asynchronous protocol will make progress at whatever rate the network supports.

Cloud providers supporting blockchain platforms

One of the main drawbacks of blockchain adoption in enterprises is the lack of best development environments for different blockchain platforms. In future most of these problems will be solved as big companies like IBM, Microsoft, AWS will be releasing their tools.

Interoperable blockchains

The number of blockchains and distributed ledger networks has exploded in the last year. As established networks like Bitcoin and Ethereum are hitting both economic and technical scaling limitations, migration to other chains is becoming a necessity for many developers, miners, and entrepreneurs. Diverse networks competing for a share of the crypto market have unique advantages and disadvantages. As time goes on, it is becoming clearer that there is no perfect solution to all blockchain needs. There are trade-offs that have to be made in development to optimize a blockchain for specific purposes.

About Sponsors

BloqCube Inc.

BloqCube Inc. is a US company, whose product, BloqCube, is a disruptive blockchain technology-based system, delivering a (patent pending) unique, and integrated solution for accelerating clinical trials. We are pioneers in this area.

Currently, clinical trials are largely driven via paper-based processes and require large numbers of intermediaries. They are slow, lack trust, bound to data integrity issues from time-to-time, delay site payments, (pushing sites to the brink of financial insolvency) and cause trial delays that are very expensive

We plan to speed up trials, decrease costs, minimize fraud and enhance security on a real-time basis. We expect to save a significant amount of time and money in the clinical development of drugs by leveraging a blockchain-based solution with our proprietary modules.

Our prototype system is an IBM Hyperledger Fabric based system running on iPad:

1. **Smart:** Disruptively use Smart Contracts to automate a laborious process – the process of site monitoring and Source Data Verification. Our algorithm upon execution pays vendors rapidly & records the financial transaction in our proprietary & pioneering C2TATM module; delivering real-time accounting transaction records of payments and permitting strategic flexibility for resources redeployment.
2. **Secure:** Leverages the immutability and distributed features of blockchain

technology to minimize potential fraud and protect clinical trial, financial and personal data.

3. **Speedy:** Our private permission system has data at Point of Care and minimizes multiple data entries. The Society for Clinical Research Sites - Oct 2016, indicated that sites have slim margins of about 13% and over 80% wanted to be paid within one month. We provide tools to do so even faster
4. **Why:** The costs savings due to process and headcount savings are estimated at ~10% on a global cost base of $25 billion(B) per year, based on the number of clinical trials conducted per year worldwide. Patients could be the ultimate beneficiaries. (Clinical Dev. spend ~$100 B/year)
5. **Progress so far:** We are a pre-market company. In 6 months, we have successfully developed a fully functional prototype and have tested it end-to-end in a mock-up international multi-center metastatic melanoma trial setting. We anticipate launching our product on the market within one year
6. **Team:** We are pharma industry veterans with more than 55 years of combined experience and expertise in Operations, Systems and Drug Development at major pharma companies. We have an experienced team of 10 UI/UX/Project/Blockchain coders with significant expertise in Agile design supporting our product development. In addition, we have set up a Clinical Advisory Board with renowned clinicians, and, IT and commercial advisory boards with very prominent personnel from both industry and academia.

ITH Technologies

A New Age Revolution

The dawn of modern technology we see today happened back in the 1800s with the industrial revolution. It paved the way for technology to emerge and innovation has never settled to this year, this second. Our world comprises of technologies so profound that looking back on the industrial revolution seems ancient.

With the invention of computers and the internet, we just passed the information age that lasted a few decades. We are now living in a world of augmented age. We are augmented by computational systems which solve problems, augment our senses, businesses and enhance our expertise.

The 21st-century technologies comprise a myriad of distinctive implications. The major benchmarking technologies we are talking here about are Blockchain, AI, Quantum Mechanics, BCI, and Robotics. The modern human is introduced to profound and intriguing technologies such as wifi, cellular devices, computers and more. One of the most intriguing and dominant technologies that I personally advocate for is the Blockchain. The blockchain is a set of ledgers that stores unaltered information that is easy to track but nigh impossible to infiltrate or manipulate. The world was introduced to the blockchain 10 years ago and since then it has become the billion dollar industry, with a potential to mount the trillion dollar mark in the upcoming years. Blockchain could be applied to airlines, healthcare, land records, government operations, banking and more.

We at ITH facilitate such practices and encourage our teammates, clientele, and others to enter this space and revolutionize the way research and development are concluded.

If technology has the potential of transforming the economy, finance, and the future, it comes with its own hazards. We can speak hours about how technology is

shaping our future but do we have the slightest of concern about the depletion and hazards technology carries?

While science is ushering into new horizons, industrialization is perilous to our environment. Pollution and depletion are rife while technology still has the ability to tackle and eradicate any harm. ITH keeps this in prime concern and advocates contributing toward creating models and preventive measures to lessen the damage. Technology is meant to save humans from the perils of being endangered while also aiding businesses and commerce.

While I strongly condemn to carry out any hazardous activity that could be detrimental to the environment, I put an immediate concern on technologies such as BCI and robotics. BCI and robotics when combined could without harming environment transform the lives of billions of people. At ITH we facilitate the research and development of BCI and robotic infused implications to enable the impaired to take decisions and be competent enough to carry out their daily lives with ease. ITH is developing an infrastructure to successfully create advance BCI devices to make lives much comfortable. We are delving into the technology by carrying out a significant research as to how the brain works and how

thoughts are perceived. ITH's own brand BrainAlive is creating efficient devices and wearables to aid the impaired people. ITH Technologies is in the process of incubating companies providing futuristic or interactive solutions. 'Breathe' and 'Act it Out' are two of them.

The blockchain isn't just for bankers anymore. ITHs core lies in the blockchain to create implications which could transform and make better some of the most despised flaws in finance and business. ITH stands tall in harnessing this technology and facilitating development and helps clients to effectively stand out in the strategy we carve for better business models. Enterprises, on the other hand, are driven by IoT, data science, Business Intelligence, machine learning, AI and more. After the blockchain, ITH pursues AI and machine learning. AI has beaten several world-renowned champions in strategy games like Chess and Go. Intuitive AIs are writing poetic phrases and building their own strategies to solve problems. Digital disruption has already penetrated industries with AI introduced to marketing and promotions as well.

Robotics: Robotics is not just motors and wheels right now. We are working with an enthusiastic team engaged in devising wearable technologies under the 'BrainAlive' project that focuses on Brain-Computer Interface. BCI has the potential to revolutionize a plethora of decisions that a student takes in his early academic career.

Incubation, Fintech and employment We are helping companies around the world to execute ICO offerings and blockchain solutions, and strategic development helps them achieve their goals and transform business.

Deep Space exploration is a thing now and interstellar journeys is a matter of a few decades. In the near future, you could just move your pupils to control your human androids, speak without moving your lips with BCI, become a superhuman with advanced augmented brain, body, and stealth. ITH delves deeper into technology to garner worthwhile achievements and realize new strategic growth and opportunities.

About the Author: Gaurav is the founder of ITH technologies. He now sits at the desks of Director, Partner, Ambassador, and Advisor to ten Blockchain and eight other companies coming from different tech and non-tech verticals. He has invented groundbreaking personal and Enterprise utilities for VR, Brain/Machine Interface, behavior analysis, and blockchain solutions.

Dunya Labs

Blockchain and Identity Technologies

One of the most interesting use-cases of Blockchain technology is its potential to transform digital identity. In this article, Cathy Guo, Global Strategy Lead at Dunya Labs teams up with Aiden Slavin, MSc at University of Oxford's Refugee Studies Centre, to write about the history of identification technology, extension of blockchain-based identifications to refugees, and blockchain projects seeking to establish a digital paradigm for "self-sovereign" identity.

I. Identification Technologies: A Historical Background

Prior to the late 19th century, most states lacked the elaborate bureaucracies necessary to produce identifications on a large scale. Identity was, for the most part, "read" off the body. People have long signified their wealth, tribe, and occupation through physical markings; tattoos and brands represent some of the earliest and most common forms of externally attested identity.

Jeremy Bentham once remarked that "only the extreme state measure of tattooing the population would solve the moral and political question 'who are you.'" Bentham's question of identity often stands in for another, namely, 'how much power do you have'? Indeed, most of the human beings subject to forced identification were (and remain) those at the margins of society—slaves, prostitutes, criminals. Identifications were, essentially, stigmatized warnings.

Throughout the 19th and 20th centuries, this pattern recurs: identity technology is invented, tested, and enforced, at the edges of society before it is applied at its center.

For example, in order to control the movement of

"outlaws" (i.e. organized workers) within his empire, Napoleon issued what some believe to be the world's first national identity card. This practice soon spread to other countries, initially to catalogue minority groups and, gradually, to surveil all individuals within a national border.

Similarly in 1920, confronted by some 800,000 people left stateless by the Russian Civil War, the League of Nations introduced the "Nansen passport." At the time, the League had only a vague conception of statelessness. Trapped in a nebulous categorization, the stateless suffered from an insecure legal status. The Nansen Passport did not grant citizenship for the stateless; it merely safeguarded stateless peoples against deportation and allowed them to cross certain borders to find work. Many regard the Nansen Passport as a blueprint for the modern international passport. Shortly after the Nansen's introduction, the League of Nations ratified the modern international passport as universal legal tender.

Alarm over World War I made state surveillance and migration control, based on a universal identification system, politically feasible—not only at the periphery, but at the very centre of the nation-state system.

II. Refugees and Blockchain-Enabled Technology

Today's world bears the highest number of displaced persons since World War II.

Throughout the 20th century, innovations in identification technologies tended to progress from the margins to the center, especially in times of crisis. This apparent phenomenon forces the question: does the extension of

blockchain-based identification technologies to refugees signal a new global standard?

In 2015, "decentralized governance" platform Bitnation rolled out the Blockchain Emergency ID. Its first implementation confirmed "proof of existence" via a headshot alongside a screenshot of the latest Bitcoin merkle root (the hash of all hashes of transactions in a given block). This picture and related attestation documents were placed in an Emergency ID template and recorded on Bitnation's native blockchain. Bitnation then tried to link these IDs to Bitcoin debit cards and issue them to Syrian refugees to little avail—given merchants and camp organizers flat-out refused to accept Bitcoin as payment.

In September 2017, Finnish Immigration Services implemented a similar program and began issuing prepaid Mastercards to refugees, which were linked to a unique digital identity stored on a (supposedly public) blockchain. Unfortunately, we could not find further technical details about this implementation.

The most technically coherent and comprehensive project in blockchain-based identification for refugees is indisputably the United Nations World Food Programme's Building Blocks project. For decades, the WFP has been responsible for issuing cash entitlements to millions of refugees, who spend their entitlements at participating retail locations with cash, mobile payments or a prepaid debit cards.

The Building Blocks project effectively moved the WFP's refugee identity and cash entitlement program onto a blockchain backend. The WFP uses a fork of the Ethereum codebase modified by Parity, essentially creating a permissioned version of Ethereum. Only registered U.N. computers can participate in the blockchain consensus protocol, and the blockchain ledger of identities and transactions are stored exclusively by

the U.N., which claims its proprietary access ensures user privacy.

The Building Blocks pilot has created significant cost efficiencies (1.5–3% savings on every transaction due to elimination of banking fees), increased transparency (all transactions are monitored on the blockchain in real time) and new modes of thinking about refugee identification and payment systems. Rather than relying on local banks to manage accounts, reconcile and settle transactions for refugee entitlements, the WFP now directly registers refugees on the blockchain, linking their unique blockchain identity to a biometric iris scan powered by IrisGuard. Virtual wallets are created for each user, which enable refugees to spend virtual assets at participating retail points. The U.N. is able to disburse goods and services to refugees, while maintaining a ledger of all refugee transactions under this program.

The WFP aims to enroll all 500,000 Syrian refugees in Jordan into the Building Blocks program by the end of 2018. The expansion would be one of the largest implementations of a blockchain project to date.

III. Self—Sovereign Identity: Can Digital Identity Begin The Revolution?

While biometric and blockchain-enabled identification systems constitute powerful new methods of aid delivery for refugees, we must remember that the underlying data and technologies created by the WFP and analogous solutions remain centralized and controlled. Refugee identities on such systems cannot be ported beyond the physical bounds of camps or the digital bounds of governmental/institutional surveillance, especially in the case of permissioned blockchains. While these technologies create efficiencies within the closed loop of a refugee camp economy, they provide little means of financial empowerment beyond such boundaries.

The movement and behavior of marginalized populations remain highly controlled. As test subjects for this new technology, refugees' biometric information and financial transaction histories are essentially recorded by one entity (in the case of permissioned blockchains like WFP), placing outsized, corruptible power in whichever centralized organization maintains the blockchain. Few safeguards exist to stop authoritarian regimes from deploying similar technologies on vulnerable or quarantined segments of their population. One thinks back to Nazi Germany and wonders how such technologies of surveillance enabled by blockchain—capable of monitoring an entire closed economic system in real time—would have played out in a detention camp.

Identity technologies are often generated by the interests of a centralized issuer, like today's nation-state. Self-sovereign identity, the most utopian of identification technologies, seeks to subvert this paradigm. In the case of self-sovereign identity, identity become portable, persistent, and privately controlled, threatening the privileged status of centralized identification issuers and managers.

Specifically, self-sovereign identity technology seeks to address a few keys vulnerabilities of existing digital identities:

- **Fragmentation.** Our digital identities are stored in numerous "silos." As we give pieces of identifying information to countless platforms and services users are forced to remember their access credentials for each, creating redundancies. The persistence of

that identifying information relies on the continued existence of a centralized third-party.

- **Security.** Centralized repositories for data stored by governments or companies are honeypots for hackers. The Equifax breach was a case in point, with 143 million US consumers' data compromised. Developing economies using digital identities for enormous populations provoke even more concern; India's Aadhaar system stores 1.19 billion peoples' worth of biometric and personal data, some of which are currently being sold on Whatsapp for a cheeky $10.
- **Privacy.** Users are not consumers, but products on many digital platforms. Usage of platforms like Google and Facebook necessarily means your data (including identity information) is sold to third-parties including law enforcement, government agencies, advertising agencies and others.

So far, the history of digital identity has slowly progressed from high fragmentation and low user control to lower fragmentation and increased user control. In the 1990s, Microsoft's Passport program and Sun Microsystem's Liberty Alliance experimented with federated identities, a system where users could use the same credentials across platforms within a federation. This decreased fragmentation, but failed to increase user control.

In the 2000s, the idea of "user-centric identities" gained steam, a system wherein individuals could utilize a "persistent" digital identity across platforms without a federation as the custodian. Projects like the Identity Commons and organizations such as the Internet Identity Workshop sought to address both fragmentation and user control. Unfortunately, very few projects were realized, and the few that were tended to be backed by centralized corporations (Facebook Connect as case in point) that, like federated identities, prioritized fixing fragmentation over empowering users.

In recent years, the self-sovereign identity has received attention for its potential to eliminate fragmentation and enhance user control more so than any previous iteration of digital identity architectures. In order to do so, SSIs leverage the following features:

- **Portability.** Self-sovereign identities are transportable across physical geographies and digital domains.
- **Persistence.** Self-sovereign identities cannot be "confiscated" by governments or revoked by any centralized entity, physical or digital.
- **Private Control.** The user controls all claims, proofs and third-party attestations in relation to his/her self-sovereign identity, and can choose which pieces of information to release to specific parties. Identity is not "issued" by any authority, and is not stored by any custodianship system.

Some believe that blockchain technology will enable the creation and adoption of self-sovereign identity technologies. There are already numerous projects in this vein. Prominent ones include Civic, Sovrin, Evernym, and the Consensys-backed uPort.

How does this work? A "blockchain-based self sovereign identity" is essentially an address on a public blockchain that serves as a permanent identifier. The user himself/herself controls the cryptographic private key that functions as the password to the blockchain ID. This blockchain ID (address) is then linked to numerous "attestations," or third-party identity verifiers including "hard" attestations such as government certificates or "soft" attestations such as peer reviews; such attestations can be stored on the blockchain itself, or on off-chain structures such as encrypted "ID hubs." Users can then release specific attestations to relevant parties, gaining control over what personal data is shared and how, while managing all pieces of their digital identity with one password (private key).

In this case, entities seeking to verify identities can trust that blockchain IDs and their linked attestations, as part of an extremely difficult-to-alter distributed ledger, have not been edited or censored. This information is not stored in a central repository, but replicated across a distributed network, which increases its resistance to tampering and reinforces its security.

The SSI, in short, enables the highest degree of portability, personal control and security for digital identity.

That being said, we do not share the ecstatic evangelism of blockchain enthusiasts. The technology is still extremely early stage—scalability and privacy of data on public blockchains leave much to be desired and require most identity management to be hosted off-chain. Full implementation of working blockchain-based SSIs could take years, if not decades. Whether or not blockchains are even necessary to their implementation remains to be seen—perhaps some other form of distributed ledger technology would be better suited to host self-sovereign identities.

Perhaps most importantly, the usability and real world impact of SSIs would still require its acceptance by service providers, digital platforms and in the future (inevitably) governments. Given the reversal of power dynamics embedded in the concept of SSI (global portability, self-sovereign user control), we doubt that it will ever be accepted without significant regulation. That, or the significant erosion of the nation-state as a system of governance.

IV. Conclusion

Hindsight often yields foresight; an examination of the 20th century tempers the euphoria associated with new identification technologies. For most of history, identification technologies have evolved as a means of "marking the rightless," deployed to manufacture exclusionary and exacting borders. By assuming that blockchain identity technology will liberate all we forget the long history of identification technologies—we naturalize their existence, along with the borders they inevitably enforce.

How blockchain-enabled identity is implemented and, crucially, who controls it, will determine whether this new technology is used as a new mode of surveillance and control, or as a paradigm-shifting model of user-controlled, self-sovereign identity.

iAM Marketing

50 Thousand Telegram Members in 15 Days? Yes, It is Possible!

The Crypto Experts and Entrepreneurs Behind iAm Marketing Developed a Unique Method, Promising 20,000 Telegram Followers in 30 Days

Building a Telegram community is universally required in the ICO/ITO world. However, building a community of 50,000 members in 15 days? Unthinkable. Until now.

iAM Marketing, a Hong Kong-based firm specializing in cryptocurrency and blockchain marketing, recently broke precedent expectations by achieving this milestone for one of its clients, Ormeus Coin.

iAM Marketing is well-known globally for their media coverage and their ability to formulate and monetize systematic methodologies. Applying this knowledge of marketing and technology to the problem of how to build a grassroots Telegram community quickly for their initial test client (Ormeus Coin) helped launch this new Platform. iAm Marketing was able to take Ormeus Coin`s Telegram community from 3,000 members to over 50,000 members -- in just 15 days.

The results speak for themselves. iAM Marketing adapted and perfected this system replicating this success for additional clients. Telegram community building is just one of several strategically tailored community-building services offered by iAM Marketing, that will be unveiled at the IBC International Blockchain Congress in Hyderabad, India.

If Ormeus Coin is any indication of the power of iAM Marketing`s systems, smart companies will enlist - and fast.

The Messaging app Telegram has become not just a place for cryptocurrency offerings, but the place to see and be seen. The platform boasts 100 million users that send 15 billion messages daily.

Cryptocurrency companies tap into Telegram's enormous global reach to engage their user base, incentivizing token holders and sharing informational announcements. Several thousand Telegram members on an ICO's channel is considered an industry norm. However, increasing members or subscribers from 3,000 to over 50,000 in 15 days is amazing, and iAm Marketing can confidently achieve this for their clients. This service was completely unheard of - until now.

For more information on iAM Marketing's services, including media sponsorship, event coverage, and Telegram community building, please visit their booth at the IBC (International Blockchain Congress) in Hyderabad, India and speak with one of their client relation specialist.

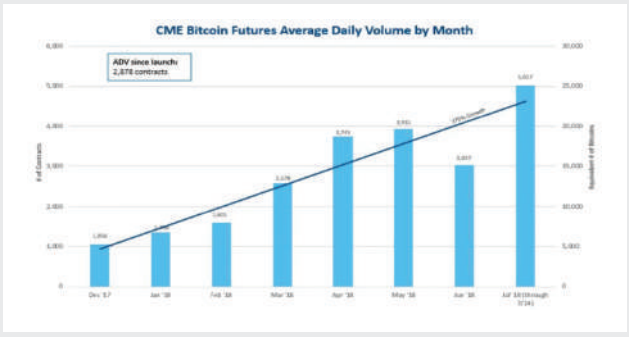
Crypto Derivatives Trading: Towards Wider Adoption

Cryptocurrencies as an emergent asset class now command a multi-billion dollars market, albeit most of the daily traded volume is commanded by only a handful of coins, with Bitcoin still the reigning champion. While the world awaits with bated breath for BTC ETFs to get approved by the US SEC, let us not forget that crypto derivatives will be instrumental in ushering in a new wave of participants into the digital asset landscape.

The 'Futures' look bright

Bitcoin futures daily trade volume have been steadily rising despite the bear conditions. Not just crypto

exchanges like Bitmex saw a rise in the number of BTC futures contracts traded on their platform, but CME recently tweeted a graph showing how BTC futures average volume on its platform has steadily grown every month since their launch last year December.

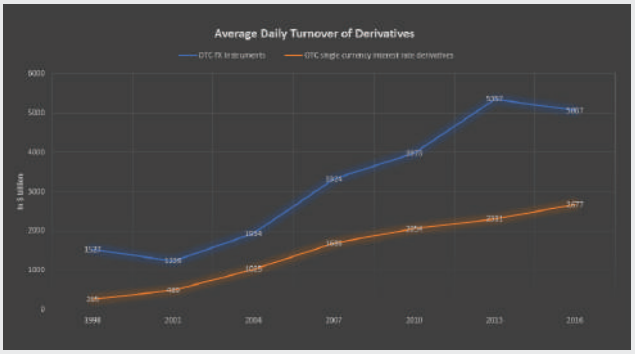


A back of the envelope calculation suggests that upon combining the notional value of all BTC Futures across the different platforms (largest players being Bitmex and CME), it nearly matches the daily traded volume of Bitcoin. Only a few weeks ago, the Bitcoin derivatives market was roughly half the size of the spot market. This rise, however, shouldn't surprise anyone familiar with derivatives in the traditional markets.

Derivatives are the Goliath, not David

In the global markets, derivatives trade volumes are usually manifold of their spot counterparts. Data from the NSE official website (dated July 5th) suggests that the NSE Derivatives Turnover for the day was ~ $223 billion while NSE Cash Market Turnover was ~ $4 billion, indicating a ~55 times larger derivatives turnover volume on the exchange.

Data from the Bank for International Settlement's Triennial Survey of foreign exchange and OTC derivatives trading that average daily turnover for OTC FX instruments has grown 231.83% while the same for OTC single currency interest rate derivatives has registered a growth of 910.19% (data from BIS survey below for years 1998-2016, updated May 3rd).



The crypto markets are still young and as such crypto derivatives is a sector that has been barely tapped into as indicated by the trade volumes we see today. Taking the

traditional markets as a benchmark, crypto derivatives market can easily grow to be 10X the spot market.

The third majestic bull run for crypto markets

Wall Street may have been last to get on the crypto train, but it shouldn't be assumed that institutional investors and old-school traders are fully on-board just yet. It is true that the prospect of indirect exposure via various crypto-based financial instruments has warmed up Wall Street traders to put in their dollars in Bitcoin and other alt-coins, but that alone will not be able to draw and retain these new entrants. Traditional exchanges like CME or ICE pride themselves not only in the user experience of their trading platforms but also the diversity of trading products they offer. It is no secret that current crypto exchanges are yet to deliver trading interfaces comparable to those present on legacy trading platforms. As such, an exchange that comes out with a wide variety of crypto derivatives offerings and couples the products with a legacy styled trading interface stands to revolutionise the crypto trading space. For retail investors, it will be a historical opportunity to enjoy trading in a fashion that up until now has been restricted to accredited investors and professional traders. Combining the merits of traditional trading platforms with the freedom of digital currency derivatives will result in a historical first where retail and institutional investors alike will be able to access and trade a financial instrument. Crypto derivatives exchanges that consolidate the derivatives market are going to be the unicorns of the world of crypto-businesses, fuelling not merely wider adoption but also the much-awaited historic ull run for Bitcoin.

Crypto derivatives exchange idap.io in conjunction with Wanchain is already spearheading the revolution

The idap.io exchange, which is the first complete crypto derivatives exchange launching crypto spreads and butterfly products, the most advanced Desktop Trading Interface and the first Simulated Trading Environment for crypto traders is the first-mover of the new generation of crypto exchanges touched upon earlier. Starting out as a centralised exchange, it has now joined hands with Wanlabs, Wanchain's blockchain incubator to work with DeX projects to create a better protocol for decentralised crypto derivatives trading. The first phase entails the creation of a hybridised architecture, with the security of on-chain settlement and the speed and efficiency of off-chain automatic matchmaking via an engine. With the combined power of the Wanchain interoperable blockchain and a highly sophisticated crypto derivatives ecosystem of idap.io, a new era for the crypto trading platforms is on the rise.

About the author

Awanish Rajan is a crypto trader who has had almost 12 years of experience in capital markets before making the switch. An alumnus of the prestigious IIT-Madras, he has been an active researcher of the blockchain technology, cryptocurrencies, and distributed systems. He is currently the CEO of idap.io, the first complete crypto derivatives exchange due for launch this year.

Jibrel - Bringing the Benefits of Blockchain to the World of Commodity Trading

Jibrel aims to bring the benefits of blockchain technology

- low transaction costs and instant settlement & clearing
- to traditional financial assets and instruments.

The revolutionary impact of the blockchain

Blockchain technology and the slew of alternative cryptocurrencies it has given rise to - is on the cusp of revolutionizing the way the world works. Initially introduced as the technological underpinning of bitcoin, blockchains provide a safe and reliable method for recording information in a transparent, private, and tamper-proof manner - without relying on a central or governing body to oversee the process.

Today, blockchain and blockchain-based initiatives have slowly begun to disrupt the way we transact value and data across numerous industry verticals, such as finance, healthcare, supply chain, and governance.

Issues at hand

That being said, all technologies must undergo the slow and painful process of maturing and evolving before they can adequately address the multifaceted issues and challenges plaguing today's global economy, and blockchain is no different. While consumers have quickly adopted blockchain technology and cryptocurrencies, institutional and enterprise users have remained sidelined, discouraged by the nascent technological state of public blockchains as well as the lack of reliable and trustworthy technology providers.

Jibrel - Bridging traditional and digital finance

Despite these issues, the upside promise for early adopters, in the form of cost savings and operational efficiencies, has begun to drive market leaders, governments and regulators to closely examine the benefits of distributed ledgers and smart contract technology. While the current structures of most public blockchains are not suitable for most enterprise use-cases, a small subset of industries is poised to be disrupted in the immediate term. Commodity trading is one of these industries. Numerous startups are competing to build solutions to streamline transacting illiquid financial assets.

Jibrel, a blockchain development company based out of Zug, Switzerland, is positioning itself to do just that. As a next-generation trading platform, Jibrel aims to provide the benefits of blockchain technology with the security and compliance of traditional banking solutions.

Jibrel provides existing financial assets and instruments in cryptocurrency or token format, thereby increasing transparency, auditability and efficiency of transacting these assets. While current Jibrel solutions focus on tokenizing currencies, future implementations aim to tokenize everything from commodities to debt instruments.

Host.Games - The Only Casino Gaming Protocol For Emerging Markets

As a group of gaming enthusiasts, we understand the sheer exhilaration of winning against the odds. Casino games are a heady mix of skill, competitiveness, and luck. The risk-reward ratio of these games has captured the imagination of millions, whether gaming casually among friends or playing in a high stakes game organized by a prominent junket operator. Casino gaming is a very popular global activity and is steadily growing as more markets gain access to infrastructure and services.

Today, the global casino industry is slated to be a $265 billion worth industry with Macau and Las Vegas being the largest casino markets in the world. Owing to the quick adoption of the internet, social casino gaming is also on a tremendous rise - the internet casino market generated over $56 billion every year. Apart from the legalized online/offline casinos, there is a huge illegal/off-grid casino market that generates over $600 billion globally. The world of casino gaming is huge, and as a business, there is a ton of potential.

As exciting and promising as the casino gaming industry is, we all know that the industry plagued by several problems, with trust being the most prominent issue. If you're in a brick-and-mortar casino, you're always second-guessing whether the odds are stacked against you. Betting in online casinos is even scarier; you never know who you're playing against, and it's harder and harder to tell which platforms are legitimate and which are scams. The unfortunate result is that the mistrust taints the fun world of gaming.

Transparency is another key problem plaguing the industry. While playing on a centralized casino platform, you always fear the potential collusion among the platform operators, white label software providers and affiliates to alter the outcome of the games. This lack of regulatory standards in the online casino gaming

industry has led to saturation of the online market.

At Host.Games, we are driven by a passion for gaming and a desire to create a safe environment where people can take part in one of the oldest forms of entertainment in human history. We wanted to remove all the inefficiencies of the current casino model and build something that actually allows players to enjoy their gaming experience to the fullest.

And so, we are proud to present the Host.Games platform.

Ever wondered what it's like to own your own casino? Host.Games empower you to become the owner of your very own casino, making you the Host and enabling you to invite players from your personal networks to enjoy games of skill, competitiveness, and luck with complete security and minimal hassle. No legal fees or licenses required here.

Think of Host Games as a platform that allows you to run your own casino. You can invite your friends from all over the world to play a private game or participate on our open platforms. Whatever your appetite, Host Games has a solution for you.

The entire platform is built on the blockchain, so from the RNG (the random number generator which is responsible for the way cards are dealt) to smart contracts, to the way customer data is handled, Host Games is the most secure online casino platform. We use smart contracts to irreversibly record every in-game variable.

Not only that, we are delivering the world's most scalable, flexible, and secure protocol for casino gaming and are also solving the prominent issues in blockchain gaming. The present blockchain gaming scenario has the underlying issues of speed, high transaction costs, and the lack of a supportive ecosystem that prevent many projects from launching in the market. Our Host Protocol addresses these beetling issues and is well-poised to provide the same kind of instantaneous and seamless gaming performance that existing gamers are used to with centralized solutions.

The Host protocol is not limited to the Host.Games dapp, but will be open to all game developers while incorporating our proprietary Play Channel tech to create a seamless, plug & play gaming ecosystem. With a uniquely scalable consensus model, our Protocol will provide the core infrastructure for thousands of commercial-grade, blockchain-based gaming apps.

The HOST Token is the foundation cryptocurrency of the Host Protocol and can be used to enable transactions on both the Host.Games dapp and on dApps built by developers on our protocol. The Host token will be used to pay any fees charged throughout the Host. Games ecosystem.

And finally, we are taking things offline too! You can now forget about having to carry local currency on your gaming sprees. We're partnering with some of the largest casinos all over the world so that you can use HOST tokens to buy real-world chips and get straight to the action. HOST tokens can be exchanged for Host Casino Chips at all of our partner casinos, making it easier and more profitable to play high-stakes games even when you don't have enough local currency.

The HOST.GAMES platform and protocol is the first project that will unite all stakeholders in the world of online casino gaming by providing developers with cutting-edge tools, hosts with new revenue streams & players with a fair & transparent experience.

Jayesh Ranjan
Principal Secretary - IT, Govt. of Telangana

The Indian state of Telangana announced it will sign several memoranda of understanding (MoU) with blockchain firms as to eventually implement the technology in state applications, reported local Indian news agency, the Business Standard, on July 26.

Telangana IT Secretary Jayesh Ranjan revealed that the state is planning to enter into MoUs with a number of blockchain-focused firms in order to implement the technology in "six or seven government applications."

According to the government official, the measure aims to bring more transparency and efficiency to public services provided by the state. However, Ranjan did not specify what areas of state services would be affected by the upcoming blockchain deployments.

Speaking at an official press conference for the 1st edition of the International Blockchain Congress on July 26, Ranjan claimed that the state is set to sign the agreements during the event.

"The blockchain is custom-made for decentralizing trust and exchanging assets without central intermediaries. In Sri Lanka we believe when decentralized blockchain protocols start displacing the centralized web it offers huge opportunities for countries like ours to leapfrog neighboring nations. We are on a journey to find our stake in the global marketplace."

Jeevan Gnanam
SLASSCOM, Sri Lanka

ASIA INC. 500
PAST EVENTS

Global Entrepreneur Summit (GES)

On its Journey to recognize individuals and organizations, and their contributions to the global economy, Asia Inc. 500 held its first official Road to GES (Global Entrepreneur Summit) Growth Conclave 2017 on November 24, 2017. Held at the tech startup incubator T-Hub on the IIIT-Hyderabad campus, the conference had over 50 women who made it big in their respective fields.

In the first edition of Growth Conclave, ASIA Inc. chose to support Women in Tech in alignment with Global Entrepreneur Summit 2017 who will be future leaders, game-changers, board members, executives and entrepreneurs, sportswomen, and politicians.

The Chief Guest for the conclave was Ms. Katherine B. Hadda, U.S Consul General, and the event witnessed prominent women leaders from various walks across the globe.

The conclave focused on women leaders and entrepreneurship with a theme that talked about rights, responsibilities, and respect that women get and deserve in the industry. The aim of the awards presented at the summit was to support women who will be a changing face of the world.

Pharma Digital Transformation Conclave

Asia Inc. 500, the leading Digital Platform for Thought Leaders in Asia, hosted the first ever Pharma Digital Transformation Conclave on March 8, 2018, at the Park Hyatt Hotel in Hyderabad. The event witnessed the participation of top-notch leaders from the pharma industry across the city of Hyderabad.

The conclave that was co-hosted by Volteo, the recognized leader in ServiceNow sales, and ServiceNow, the world's fastest-growing enterprise cloud software company, had more than 30 C-suite executives participating in the biggest CIO roundtable event.

Asia Inc. 500 honored the top most influential pharma leaders who have embraced technology and made a significant contribution to the pharmaceutical field manifesting in a Pharma Digital Transformation. Out of 104 nominations from 71 brands, the jury has selected top 7 nominations and awarded them.

ASIA Inc. 500 Upcoming Events

N.O.W SUMMIT - Shaping The Future

As India is witnessing a steady rise in women entrepreneurship and more women pursuing their career towards this direction, Asia Inc. 500 is gearing up to host its 4th event to honor, award, support and connect women thought leaders and industry stalwarts at one place.

About 8% of women in India run their own startups, over 30% have a share in the Senior Management positions in the corporate and only 10% of formal enterprises are being operated by women. It is, therefore, imperative for both the organizations and people to accelerate the need to increase gender diversity in the workplace and society.

N.O.W summit aims at bridging the gap on various aspects hampering the progress of women by bringing together 600+ the most sought-after women leaders, entrepreneurs, mentors, startup investors etc., who support women leadership through interactive keynotes, and panel discussion. This also invokes tremendous learning and valuable insights on what it takes to be leaders of tomorrow, from the ones today.

About ASIA Inc. 500

Asia Inc. 500, along with its valued partners lays emphasis on exploring and recognizing 5000+ individuals and organizations every year across Asia and helps to reach out to a wide audience, prospective clients & investors.

Our platform is a great source of information and connect in areas of AI, Blockchain and other upcoming technologies and frameworks. At the end of every quarter, we choose and rank the best 500 organizations in various aspects all throughout Asia.

Nucleus.Vision

ELEVEN01

THOUGHTFOLKS
INSTITUTE OF DIGITAL TRANSFORMATION

THOUGHTFOLKS
DIGITAL

THOUGHTFOLKS
MEDIA

THOUGHTFOLKS
VENTURE

Evolutyz

CENTRE FOR GOOD GOVERNANCE
Knowledge • Technology • People

BLOCK91

SOCIO

Lovelychocos
make your own chocolate