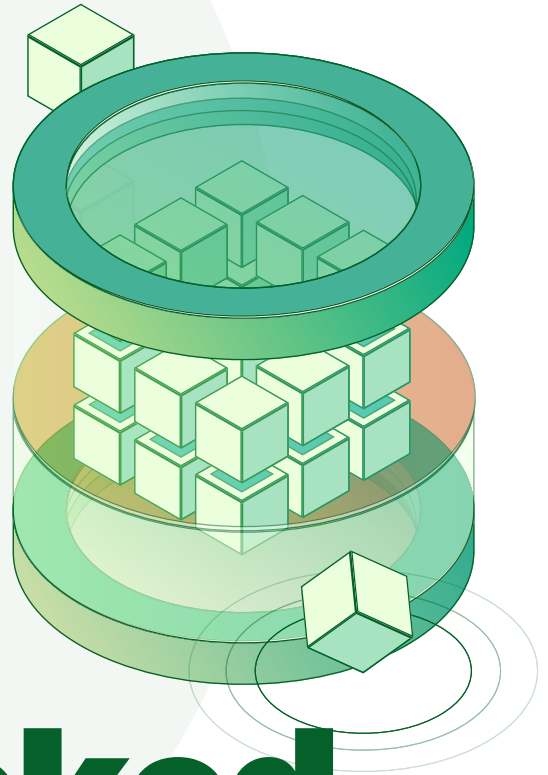




Educate
Collaborate
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Web3 Unpacked

Monthly Newsletter  Jul '23



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Global Taxation Frameworks: Learnings For India (1/4)

Taxation Structure for Virtual Digital Assets Globally

The increasing usage of Virtual Digital Assets (VDAs) around the world has convinced several countries to accept the reality that VDAs are here to stay. A necessary consequence of this recognition is to build a regulatory framework around the sector that embraces these assets and the underlying technology to promote innovation and protect VDA participants. A critical dimension to such regulations is taxation. Since the regulation of VDAs around the world varies vastly, taxation of VDAs also varies proportionately. Countries with accommodating regulations tend to have more lenient tax policies and vice versa.

As the sector has evolved, the number of countries with an encouraging outlook towards Web3 and VDAs has increased and this positive attitude is reflected in their policies. Countries like Germany, Singapore, Switzerland, Hong Kong, and UAE fall under this bucket.

In **Germany**, virtual digital assets are treated as 'Private Money' instead of 'Property' and thus the regular income tax of up to 45% is applicable with a few caveats which encourage investment in VDAs. Short-term gains from assets held for less than one year are taxable if the gains from their sale exceed 600 Euros. Profits earned by Individuals under 600 Euros are tax-free. Moreover, income earned from selling VDAs held for more than one year is also tax-free. The German Tax Act also allows consumers to offset gains from past year losses and carry forward losses to set off in the future.^[1]

Singapore is considered an extremely advantageous region for trading VDAs as it has a very encouraging tax structure. There is no capital gains tax on investments made in VDAs. This means that while business earnings are subject to standard income tax, individual earnings made by investors, long-term or short-term, are exempted. Additionally, all transactions involving buying and selling of goods and services using VDAs are also exempt from the standard Goods and Services Tax of 8%.^[2]



Global Taxation Frameworks: Learnings For India (2/4)

Taxation Structure for Virtual Digital Assets Globally

In **Switzerland**, all VDAs are treated as assets. Gains from trading VDAs are generally tax-free. Commercial activity can be taxable based on the assessment of the tax authority and professionals may be charged a wealth tax of up to 0.8% on earnings from VDAs. This has made Switzerland a haven for Virtual Digital Assets.

Hong Kong also has adopted a similar approach with tax exempted for VDA investors and business gains treated as income subject to standard income tax. Certain regions like **Puerto Rico** have even more accommodating policies with no capital gains tax for investors and a 4% income tax for qualified businesses. Some other countries with no capital gains tax for investors trading VDAs include **Monaco, Malta, Seychelles, Thailand, and Vanuatu**.^[3]

In addition to a nurturing tax structure, these countries have also implemented progressive, forward looking regulatory frameworks which complement their tax policies to leverage the opportunity at hand. In practice, this has translated into rapid economic growth through VDAs in the presence of an encouraging environment.

Approximately 5.8% of the German population owns some form of VDAs. This number has more than doubled since 2021, when the figure stood at 2.6%. Countries like Switzerland and Singapore are among the top 10 biggest markets for VDAs around the world as people flock to new avenues to protect their investments and earnings.^{[4][5]}

Taxation Framework in G20 Countries

A report on Virtual Digital Assets Regulation in G20 Countries provides an in-depth comparison of regulatory frameworks across G20 countries, including taxation structures. 90% of advanced economies in the G20 group have imposed some form of taxation on VDAs, with the only exception being the European Union. However, of the emerging economies, only 65% have imposed taxation so far. As a general trend, countries seem to lean more towards direct tax over indirect tax. This difference is primarily because of the classification of VDAs under different frameworks. Most countries treat VDAs as assets and properties and thus any income earned on them is taxed accordingly as income from assets and properties for purposes of Income tax. However, for the purpose of Indirect Tax, VDAs are generally classified as currencies and thus their exchange and issuance are free from such taxes.^[6]

Global Taxation Frameworks: Learnings For India (3/4)

Taxation Framework in India

For India, the first formal tax policies for VDAs were announced during the Budget Session of 2022. Section 115BBH of the Income Tax Act mentions a levy of a flat 30 percent tax on capital gains, short-term or long term, from VDA trade applicable from 1st April 2022 along with the relevant surcharge and 4% cess. This tax rate is at par with the country's highest income tax bracket. Individuals and organisations in the Web3 ecosystem also do not have the option of carrying forward losses or setting off previous losses from gains for the purpose of tax from 1st April 2022.

Moreover, there is an additional 1% TDS charged if VDA transactions in a year exceed Rs. 50,000 after 1st July 2022. The exemption limit of 50,000 drops to Rs. 10,000 if business income is up to Rs. 1 Cr or if business income was nil in the previous financial year.



Rationale and Impact

The Indian Government's stance was intended to achieve the following objectives: tracking VDA transactions by resident Indians and the corresponding sources of income and building guard rails for financial stability. However, this outlook has caused several unforeseen consequences. A [research report](#) by Esya Centre found some concerning details.^[7]

After the introduction of the new tax regime, investors started channelling their activities offshore. Centralised Indian VDA exchanges lost 15 percent of their trading volumes in two months (i.e., Feb-Mar 2022) after the announcement. These exchanges further lost another 14 percent in three months and 81 percent within four months. The volume of transactions of Indian VDA exchanges, which was 0.57 percent of that of the foreign VDA exchanges in Jan 2022, fell to 0.03 percent in Oct 2022. The transfer of footfall from domestic exchanges also has the potential to create liquidity issues for Indian exchanges. Investors have started to make use of Peer-to-Peer networks, which allow two parties to buy-and-sell VDAs through a third-party platform. This is not optimal for maximising tax revenue.

Global Taxation Frameworks: Learnings For India (4/4)

Rationale and Impact

Investors also run the risk of exposing themselves to fraudulent transactions. The report analysed a sample of 5436 P2P traders posting P2P advertisements on prominent offshore exchanges covering 10 VDAs, to assess the P2P INR volumes on offshore exchanges. The average 30-day volume of such P2P transactions amounts to USD 366 million. The introduction of high tax rates on VDAs in India prompted offshoring trade volumes worth INR 32,000 crores (US\$ 3.8 billion) since the announcement of these policies in February 2022 to April 2023. While the development of the taxation framework in the country for VDAs is encouraging, in its current state, The Indian Tax Policy for VDAs ranks low in competitiveness.

The idea behind assessing the impact of TDS was to track the transactions taking place in the sector. This can also be achieved through a lower tax rate and with India implementing the FATF Travel Rule through the PMLA Amendment, the objective is being more comprehensively achieved. However, this objective will remain unfulfilled if the consumers choose to move their business elsewhere.

The Way Forward

A progressive outlook to taxation should be the priority for the country if it is to take full advantage of the potential of Web3 and the current provisions of the Income Tax Act create confusion for the users. Web3 is a sunrise sector and investments in the sector have grown 37x since the start of 2020 over a 2-year period. Such investments are only expected to grow further as Web3 is expected to add over \$1 trillion to the Indian GDP by 2032. Given the potential of the VDA ecosystem and India's huge developer base, it is important to support the sector. Therefore, standard tax rules, including but not limited to the ability to set off losses from gains, should be applicable to VDAs as well. This will help simplify taxes and make it easy for taxpayers as the current construct of Section 115BBH is neither end user friendly nor conducive to growth of the burgeoning sector in India.



Workshop on Virtual Digital Assets, Web3, and Consumer 25th July 2023



The Department of Consumer Affairs (DoCA) organized a workshop on “Virtual Digital assets, Web3 Sector and Consumer” to provide a platform for constructive dialogue between the DoCA and stakeholders and ensure end-to-end protection for users in the Web3 space.

DoCA Secretary Shri Rohit Kumar Singh said that the enforcement of laws and regulations is difficult in Web3, thus A collective view on the Virtual Digital assets and Web3 is the need of the hour among countries.

Many Government officials from the Department of Economic Affairs, the Ministry of Home Affairs, Ministry of Finance, the Indian Cyber Crime Coordination Centre, Financial academics, activists working to mitigate consumer risks in financial investments and consumer protection along with media personnel, and journalists attended the session.

The brainstorming session was held on three major key highlights: First, understanding the World Wide Web and Virtual Digital Assets and its background technologies. Second, understanding the emerging Risks for Consumers from Virtual Digital Assets and how to mitigate Web3 Blockchain Risks and Security Threats. Third, Consumer Protection through existing & evolving Laws & Regulations for VDAs & Web3.

Mr. Dilip Chenoy, Chairman of BWA delivered the keynote address and highlighted the importance of framing a consumer protection network. The discussion also witnessed participation from members of the BWA who aimed to foster a 360-degree stakeholder approach by collaborating with government bodies, positioning India at the forefront of VDA regulation.

[Read More](#)

Noteworthy Activities of the Association (2/4)

BWA and RIS Roundtable on VDA Ecosystem

11th July 2023



Research and Information System for Developing Countries (RIS) in collaboration with Bharat Web3 Association conducted a roundtable discussion on July 11, 2023. The event witnessed constructive debate and in-depth conversations on the evolving policy and regulatory landscape of the VDA sector from the perspectives of India and the G20. Members of BWA such as Aishwary from Polygon and Rajagopal Menon, Vice-President of WazirX, contributed to the discussion.

Professor Sachin Chaturvedi, Director General of RIS delivered the welcome remarks where he highlighted that with the G20 Presidency there comes a unique opportunity to lay the groundwork for a policy framework that can harness the potential of blockchain and VDAs while mitigating its risks.

Mr. Dilip Chenoy, Chairman of Bharat Web3 Association said, "Indian companies have the opportunity to lead the web3 revolution. They are working with the objective of making the country a centre of prosperity and a centre of web3 innovation. However, the question before us is how to evolve a policy so as not to miss this opportunity. We need a concerted effort to create a policy and regulatory environment to put us right at the top and this requires collaboration. We need a champion! We need people to come together to support this sector".

The recommendations and insights from the roundtable discussion will be released as a comprehensive whitepaper, with the collective expertise and perspectives shared during the event. This whitepaper will play a vital role in the ongoing process of designing an effective model for the orderly growth and efficient regulation of the VDA sector in India.

Noteworthy Activities of the Association (3/4)

Roundtable on Asset Tokenization

22nd July 2023



The Bharat Web3 Association partnered with the Emerging Technologies Wing, Govt. of Telangana to develop comprehensive standards and a framework for Asset Tokenization.

BWA along with representatives from the government, sector, venture capitalists, and academia gathered to discuss and reach a consensus on the key principles of the asset tokenization standard framework under the guidance of Shri Jayesh Ranjan and Smt. Rama Devi Lanka.

[Read More](#)

Namaste Web3 in Hyderabad

22nd July 2023



Namaste Web3 is an education and awareness initiative undertaken by CoinDCX, Forbes India and Bharat Web3 Association. In an effort to educate the masses about Web3 and the VDA sector, the event unveiled the second volume of the report titled 'Fundamentals and Guiding Principles of the VDA ecosystem during the Hyderabad Chapter.

Mr. Dilip Chenoy delivered the special address on "The Role of Regulatory Sandbox in Web3 Development".

Through this event the stakeholders aimed to explore the synergy of blockchain technology and real-world applications and thus drive Web3 adoption, foster innovation, and shape a decentralized and transparent future.

[Read More](#)

Noteworthy Activities of the Association (4/4)

BW Web3 Summit and Awards 2023

19–20th July 2023



The Bharat Web3 Association was the strategic partner for the BW Web3 Summit and Awards, hosted by BW Business World on July 19th–20th at Aloft, New Delhi.

Mr. Dilip Chenoy, Chairman of Bharat Web3 Association delivered a keynote encouraging development in the Web3 ecosystem. He chaired the session on "Timely Policymaking in Cementing India's Leadership in Web3 Innovation," and took part in a panel discussion on 'Prioritising the unserved and underserved- Role of Web3 innovation in facilitating financial inclusivity'.

Mr. Chenoy served as a distinguished member of the Awards Jury, joining a prestigious panel tasked with recognizing outstanding contributions within the Web 3.0 community. The awards bring together ecosystem leaders, developers, investors, and enthusiasts from around the world to celebrate the achievements of the Web 3.0 community.

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Startup 20 Summit

4th July 2023



Mr. Dilip Chenoy, Chairman, and Mr. Kiran Vivekananda, Director, represented BWA at the panel discussion organized by Startup 20 titled, 'Unleashing the potential of Web3: Opportunities, Challenges and Policy Considerations.

This discussion focused on initiatives that can be taken by the government, members of the ecosystem and startups to support and develop the Web3 ecosystem. It also highlighted the policy frameworks and standards to be brought about to ensure privacy, security and interoperability of digital identity solutions across platforms.

[Read More](#)

Policy Developments From Around The World (1/4)

Financial Stability Board releases Global Framework Guidelines

After months of deliberation, the Financial Stability Board released its final Global Regulatory Framework for Virtual Digital Assets on 17th July 2023. The proposed regulation was released through 2 papers which specify high-level recommendations for the regulation, supervision and oversight of Crypto-asset Activities and Stablecoin Arrangements.

The guidelines demand for more comprehensive regulation of virtual digital assets and specifically address financial stability in the VDA ecosystem and explicitly do not address other risks such as AML/CFT, data privacy, cyber security, consumer and investor protection, market integrity, competition policy, taxation, monetary policy, monetary sovereignty and other macroeconomic concerns. Based on the principle of 'same activity, same risk, same regulation', it is built to ensure consistency of international supervisory approaches. The FSB states that the regulations are high-level to allow for flexibility on a jurisdictional level and are designed to be applicable across different technologies which may be employed.

Specific Recommendations for the Virtual Digital Asset Ecosystem

These guidelines address 3 fundamental challenges, namely the safeguarding of client assets, conflicts of interest, and cross-border cooperation. The broad prescriptions of the guidelines for Virtual Digital Assets are:

- They prescribe that relevant authorities should have and exercise the right to supervise VDA activities and stablecoin arrangements and should have the tools to ensure such oversight.
- The jurisdictional frameworks under different authorities should take into account the nature of business in a given area and build regulations proportionately.
- For regional and international cooperation, existing arrangements of interaction should be utilised and new arrangements should be established which recognise the cross-sectoral nature of some activities.
- On the governance front, authorities should require that Virtual Asset Service Providers (VASPs) have a robust governance and risk management framework in place, with distinct lines of duty and accountability for all the tasks and activities they are carrying out and detailed redressal of material risks relevant. The governance system must be appropriate for their risk, size, and complexity and disclosed to the relevant authorities.

Policy Developments From Around The World (2/4)

Specific Recommendations for the Virtual Digital Asset Ecosystem

- Maintenance of databases should also be required of the VASPs so that authorities may fulfil their obligations of oversight. Moreover, Authorities should demand that VDA issuers and service providers offer users and pertinent stakeholders with complete, transparent information on their governance structure, business operations, risk profiles, financial situation, and other relevant activities.
- Authorities should ensure that all financial risks arising from a particular asset, its interconnectedness within the ecosystem and with the larger financial ecosystem are appropriately accounted for. Additionally, for any VASPs performing multiple functions, there should be appropriate guidelines which individually address all such activities.

For Global Stablecoin Arrangements (GSCs), the guidelines prescribe the following:

- Similar to VDAs, relevant authorities should have and exercise the right to supervise stablecoin arrangements and should have the tools to ensure such oversight.
- Authorities should focus on developing a supervisory structure which is consistent with international standards and applies the principle of “same activity, same risk, same regulation” wherever applicable. In case any stablecoin arrangement relies on an intermediary such as a trading platform, authorities should ensure that such intermediaries also follow applicable regulations as required.
- Authorities should collaborate with one another on a national and international level. This will ensure thorough regulation, supervision, and oversight of GSC arrangements across borders and promote consistency of regulatory and supervisory outcomes.
- Authorities should require that GSC arrangements have a thorough governance framework in place which they have also published. The lines of duty and accountability for all activities under the GSC arrangement should be clearly defined. Clear Risk Management frameworks for addressing all material risks pertinent to the technology must also be in place.
- Authorities should also require that appropriate measures are in place for collecting, storing and safeguarding data. Access to this data should be readily available with the authorities. Moreover, GSC issuers and, where applicable, other participants in the GSC arrangements should provide all users and relevant stakeholders with relevant information to comprehend the functioning of the GSC arrangement.

Policy Developments From Around The World (3/4)

Specific Recommendations for the Virtual Digital Asset Ecosystem

- The Guidelines prescribe that the GSC arrangements should have in place appropriate systems for recovery and resolution in case of dissolution and insolvency. The Redemption process should be clear and comprehensible for the user and claims should be settled punctually and without undue costs. Authorities should require GSCs to have an effective method to maintain a stable value at all times. To facilitate this requirement, GSC arrangements should be subject to appropriate liquidity and capital requirements. For GSCs that use a reserve-based stabilisation method, authorities should ensure that there are robust requirements for the composition of reserve assets consisting only of conservative, high quality and highly liquid assets.
- Authorities should require that GSC arrangements meet all applicable regulatory, supervisory and oversight requirements of a particular jurisdiction before commencing any operations in that jurisdiction and adapt to new regulatory requirements as necessary and as appropriate.

Response, Reactions, and Next Steps

The guidelines, which come in response to the request laid down by India as the G20 president, were warmly received by the community for the most part. On 18th July 2023, Finance Minister Smt. Nirmala Sitharaman lauded the high level recommendations at a press conference. Various players have also appealed to other bodies to follow the lead of the FSB and come up with their own relevant guidelines.

Insights from the framework also underlined that FSB and sectoral standard-setting bodies (SSBs) have created “a joint workplan for 2023 and beyond.” As per the document, the Financial Stability Board, Basel Committee on Banking Supervision (BCBS), Bank for International Settlements’ Committee on Payments and Market Infrastructures (CPMI), International Organization of Securities Commissions (IOSCO), Financial Action Task Force (FATF), IMF, World Bank, and Organization for Economic Cooperation and Development (OECD) have been working closely to ensure that the work underway regarding the monitoring and regulation of VDA activities and markets is coordinated, mutually supportive, and complementary.

Some concerns around the extensive oversight have surfaced with a belief that such practices might curtail innovation and diminish the decentralised aspect of the technology which is critical to their functioning. However, majority of the response from the ecosystem representatives is positive and highlights the benefits of a robust governance and regulatory framework.

Policy Developments From Around The World (4/4)

Response, Reactions, and Next Steps

Ashish Singhal, Co-founder and CEO, CoinSwitch welcomed the FSB's reports and said, "The FSB's global regulatory framework for crypto-asset activities presented to G20 is an important milestone towards the development of a comprehensive and coherent global regulatory framework that supports responsible innovation. However, the recommendations from the FSB report focus primarily on financial stability. We look forward to the recommendations from other bodies within G20 on areas such as investor protection, cyber security, and AML/CTF. The IMF-FSB synthesis paper to be released in September will aid further policy discussions on regulations and we look forward to engaging with all stakeholders on this."

Rahul Pagidipati, CEO, ZebPay, a VDA exchange, believes that these recommendations will assist jurisdictions build and customise their regional frameworks due to the flexibility of the recommendations. "Overall, we believe that these recommendations are beneficial for VDA ecosystem in long-run," Pagidipati said.

"I think the FSB emphasises the importance of cross-border cooperation to combat regulatory arbitrage, urging information sharing to ensure compliance across jurisdictions, particularly those lacking international standards. This can prevent money laundering and ensure global compliance," Edul Patel, co-founder and CEO, Mudrex, stated.

"It is expected that the principle of 'same activity, same risk, same regulation' will bring much-needed consistency and comprehensiveness to the VDA ecosystem," Rajagopal Menon, Vice President, WazirX, concluded.

The guidelines will assist in the development of the synthesis paper to be released by the Financial Stability Board and the International Monetary Fund in September.

"We hope for the implementation of policies that not only address risks but also enable us to unlock the potential of this technology. In this spirit, we anticipate the paper by FSB and IMF, slated for release in September. We hope that the sector's perspectives are reflected in the paper," Sumit Gupta, co-founder and CEO, CoinDCX, a VDA investment application, concluded.

The release of the guidelines marks a landmark step for the ecosystem and is certainly a sign of bigger things to come.

Key Highlights for the Month (1/2)

National News

Why still no law on crypto, Supreme Court asks Union government

Jul 28, 2023: The Supreme Court (SC) on Thursday directed the Union government to bring on record whether it intends to set up a federal agency to investigate criminal cases involving cryptocurrencies, terming it “unfortunate” that the Centre still does not have a law to regulate digital currencies, nor does it have an expert agency in place to probe such matters. The bench ruled that several innocent investors in the country are getting duped but there is no agency at the national level that can crack the code in such cases involving complex nature of transactions.

[Read more](#)

FM Sitharaman lauds progress on Virtual Digital Asset reporting laws

Jul 18, 2023: Union Finance Minister Nirmala Sitharaman on July 16, 2023, lauded the progress of work towards developing the VDA reporting framework and updating the Common Reporting Standard, as she called it, “A welcome step.” This marks a significant milestone for the VDA ecosystem. “This is a significant development towards the creation of a guidance note on VDA regulation and lay down of the foundation for the synthesis paper scheduled for the G20 September meet,” Sharat Chandra, blockchain and emerging tech evangelist, told FE Blockchain.

[Read more](#)

SBI and other banks are rolling out CBDC as RBI targets one million daily transactions

Jul 19, 2023: The Metaverse is transforming industries worldwide. According to a new report, it is poised to present a \$13 billion opportunity globally and India’s Metaverse and Web3 market is projected to reach \$200 billion by 2035. The retail and financial services sectors are tipped to drive Web3 and Metaverse adoption in India. Strategy and management consulting company Arthur D. Little launched their report “Web3 & Metaverse – The Rise of the New Internet & the India Opportunity” on June 1, which highlights how emerging technologies have a potential of \$200 billion.

[Read more](#)

Hashed Emergent to launch the first ever “India Blockchain Week (IBW)”

Jul 6, 2023: IBW is the headline conference in a week-long series of web3-focused events lasting from December 4-10. It begins with a “warm-up” session on Monday and Tuesday, December 4-5. The IBW headline conference will be held on December 6-7. It will be succeeded by the ETHIndia hackathon which set a record last year as one of the largest Ethereum hackathons with over 2,000 attendees and 450+ project submissions. The main IBW conference venue will be the Sheraton Grand Hotel in Whitefield, a major IT and commercial hub of Bangalore.

[Read more](#)

International News

Thirteen Web3 Companies Unify VDA Data With a Single Platform, LiveQuery

Jun 26, 2023: The largest network of VDA data and node providers ever assembled is changing the way Web3 leverages data. Launched by data provider Flipside, LiveQuery makes it possible to hit multiple APIs in a single platform with a single SQL query – an ecosystem first. Analysts no longer need to navigate between platforms, manually collecting data from disparate sources.

[Read more](#)

Shanghai sets guidelines to revamp the sector, supply chains with blockchain, digital yuan

Jul 20, 2023: The government of Shanghai on Tuesday published a set of guidelines to promote blockchain technologies in the city's industries. The move by China's biggest city is in line with the country's stated goal to focus on adoption of blockchain cost efficiencies in real-world industries.

[Read more](#)

Hong Kong establishes a task force to Advance Web3 Development

Jul 7, 2023: As part of Hong Kong's ongoing commitment to embrace the "megatrend" of Web3 development, it has established a diverse group of ecosystem and government officials to supervise the progress of Web3 in the region. The government of Hong Kong has formed a task force comprising 15 ecosystem participants and 11 key government officials to oversee the development of Web3 [Read more](#)

Google Cloud eyes more involvement in fast-evolving Web3 segment

Jul 21, 2023: Google Cloud is plotting more Web3-focused products to make its computing offerings the first choice for ecosystem firms and developers. This follows the recent introduction of a startup program aimed at supporting players within the Web3 segment.

[Read more](#)

EU blockchain sandbox releases its first 20 use cases following a wave of applications

Jul 7, 2023: On July 3, the first batch of 20 blockchain use cases was formally introduced, following a rigorous selection process that saw nearly 90 applications received in April. This initiative aims to bridge the regulatory gap between European nations and VDA companies by providing legal advice and regulatory guidance.

[Read more](#)

Web3 Foundation Initiates Global Roundtable Discussions with Policy-makers, Starting in Japan

Jul 4, 2023: The Web3 Foundation, best known for its leading project, Polkadot, unveiled a new initiative to encourage roundtable dialogues with regulators worldwide. The first of such meetings was conducted in Tokyo, Japan, on July 25th, and brought together individuals, government institutions, and VDA stakeholders.

[Read more](#)

Web3 in India

PNB launches its virtual branch in the Metaverse

- State-owned Punjab National Bank (PNB) has announced the launch of a virtual branch, PNB Metaverse.
- This virtual branch is open to existing and new customers who can now explore the bank's products and services such as bank deposits, retail/MSME loans, digital products, women/senior citizens, 'Do It Yourself' and government flagship schemes.
- This Metaverse Branch enables access to bank services to customers from the comfort of their home or office through their mobile phones and laptops. In addition, the bank will offer an immersive 3D experience to the customers while performing traditional banking activities through their digital avatars.
- PNB says that with this technology, they aim to increase customer engagement rate, improve customer acquisition process and provide hyper-personalized customer experience.

[Read more](#)

West Bengal's NKDA and Airchains introduce blockchain integration for land mutation

- Airchains, a Web3 middleware SaaS platform announced partnership with West Bengal's New Town Kolkata Development Authority (NKDA) to transform the land ownership and mutation system by employing blockchain.
- This initiative will reshape the landscape of land mutation by introducing 500,000 Non-Fungible Tokens (NFTs) deployed on Polygon Supernets.
- It also aims to replace traditional bureaucracy with a transparent, efficient, and secure digital system as well as facilitate fractional property ownership, opening up to 10 lakh new mutation opportunities.
- By creating a highly secure digital environment with unique NFTs serving as land ownership proofs, this solution will allow easy transfer of ownership rights for landowners by transferring the corresponding NFTs, thereby eliminating complex paperwork as well as enable digitization of proof of records as distinct NFTs.

[Read more](#)

Our Associates



Incorporated in	2017
Founder(s)	Vikram Subburaj, Arjun Vijay
Sector	VDA Exchange

Giottus is a customer-centric, compliant and all-in-one VDA investment platform that is changing the way Indian investors trade their virtual digital assets (VDAs). Giottus, founded in 2017, aims to shed barriers that arise from the complexity of the asset class by giving customers a choice to trade and to seek customer support in multiple languages including Hindi, Tamil and Telugu. Rated the best in the ecosystem across social platforms by users, Giottus offers a comprehensive wealth creation suite with products like SIP, staking, fixed rewards and baskets in addition to VDA trade.



Incorporated in	2020
Founder(s)	Saravanan Pandian
Sector	VDA Exchange

KoinBX, formerly known as Koinbazar, is a prominent digital assets exchange that was incorporated on September 30, 2020. Founded by Saravanan Pandian, KoinBX has swiftly risen to become a trusted name in the VDA ecosystem. As a leading platform for buying, selling, and trading digital assets, KoinBX aims to facilitate seamless access to the world of VDAs for both beginners and experienced traders alike. With a strong focus on security, user-friendliness, and compliance, KoinBX offers a diverse range of virtual currencies and advanced trading tools, empowering its users to navigate the dynamic VDA ecosystem with confidence. Join the KoinBX community today and experience the future of finance through their secure and transparent platform.

Simplifying The Web3 World

Initial Coin Offering



An initial coin offering (ICO) is a fundraising method widely used in the VDA and blockchain ecosystem. Much like an initial public offering (IPO) in traditional finance, an ICO enables projects and companies in the VDA space to raise capital by issuing digital tokens or coins to interested investors. However, unlike traditional IPOs, ICOs leverage blockchain technology and VDAs as a means of raising funds and engaging with their community.

There are generally two types of ICOs: Private ICOs and Public ICOs. Private ICOs are conducted on a smaller scale and are limited to a select group of investors, often including venture capitalists and strategic partners. On the other hand, Public ICOs, also known as token sales or crowd sales, are open to the general public.

Central Bank Digital Currency



Central bank digital currencies (CBDCs) refer to digital currencies issued by a country's central bank, similar to VDAs but with a fixed value tied to the country's fiat currency.

The primary aim of CBDCs is to offer businesses and consumers privacy, transferability, convenience, accessibility, and financial security. By reducing the complexities and costs associated with traditional financial systems and cross-border transactions, CBDCs provide lower-cost alternatives for those using alternative money-transfer methods.

The global interest in CBDCs is growing, with 105 countries exploring their implementation.

Simplifying The Web3 World

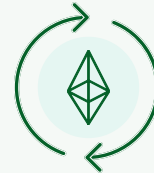
Bitcoin



Bitcoin is a Virtual Digital Asset introduced in 2009 by an anonymous entity known as "Satoshi Nakamoto." It functions as a peer-to-peer electronic cash system, enabling online money transfers without relying on traditional banks or payment systems. Bitcoin serves as a digital public infrastructure for money.

Immutability is ensured through rules encoded on the blockchain, preventing arbitrary alterations. Bitcoin's limited supply, approximately 21 million coins, is governed by a predefined algorithm, and its release to miners halves every four years. This scarcity and the inability to be manipulated contribute to its perceived security and status as a valuable store of value.

Ethereum



Ethereum can be defined as a vast, decentralized computer where diverse applications can be built, ranging from financial services to games, social networks, voting systems, and beyond.

Ethereum offers a broader scope, enabling the creation and utilization of decentralized applications (dapps) and smart contracts, which automatically enforce agreements between parties. The VDA associated with Ethereum is called Ether, and it operates on the decentralized, immutable, and open Ethereum blockchain and protocol.

With the largest web3 developer ecosystem, Ethereum has facilitated the creation of numerous dapps, particularly in the domains of DeFi (Decentralized Finance) and NFTs (Non-Fungible Tokens).

About Us

Jul '23

Bharat Web3 Association

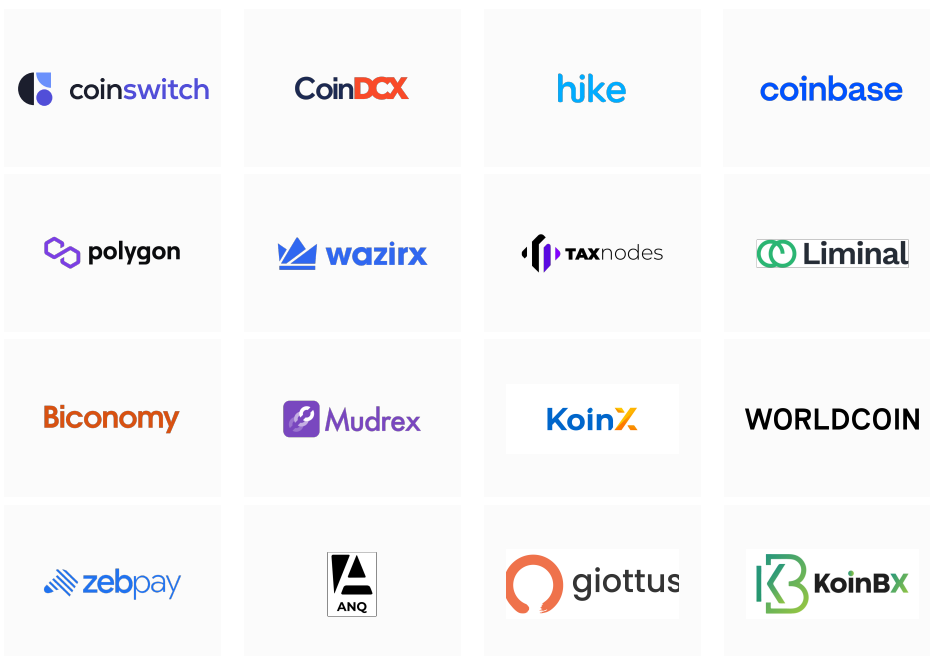
Bharat Web3 Association (BWA), is a platform that brings together leading Web3 players to enable and support the growth of India's Web3 ecosystem which includes Virtual Asset Service Providers (VASPs), Web3 Developers and infrastructure providers.

BWA believes that India has the potential to lead the world over the next decade by building a strong Web3 ecosystem in the country, in line with the government's "Make-in-India" and Digital India initiatives.



**BHARAT WEB3
ASSOCIATION**

Our Associates



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EDUCATE

Through Research To Keep Pace With Evolving
Technology

COLLABORATE

To Encourage Web3 And Blockchain Innovation And
Nurture India's Talent Pool

PROMOTE

Dialogue Between Key Stakeholders