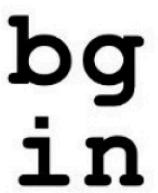
# **BGIN Block #10 Meeting Report**

- BGIN is a multi-stakeholder discussion body / distributed think tank.

# **Challenges and Innovations in On-chain Analysis**



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The Global Network for Blockchain Stakeholders™

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# Summary

# **Key Discussion Points**

# 1. Self-Regulation and Industry Standards

Participants emphasized the necessity for the crypto industry to develop and adhere to self-regulatory practices and standards. There was a consensus on the importance of establishing common best practices to address the unique challenges posed by the decentralized nature of blockchain technology. Efforts to create a self-regulatory organization (SRO) were discussed, highlighting the need for such an entity to enforce accountability and compliance among its members effectively.

#### 2. Consumer Education and Protection

The need to enhance consumer education and protection was a recurring theme. Participants discussed strategies for empowering consumers to conduct due diligence (DYOR) and protect themselves from fraudulent activities and scams. The role of exchanges was spotlighted as crucial in implementing measures to safeguard users, such as providing educational resources and alerting them to potential risks.

# 3. Regulatory Collaboration and Feedback

The dialogue underscored the significance of a strong collaboration between the industry and regulators. A proactive feedback loop, where regulators and industry participants work together to refine and enforce regulatory standards, was identified as vital for fostering a safe and compliant ecosystem. The experiences of jurisdictions that have successfully established such collaborations were highlighted as models to emulate.

#### 4. Market Sentiment and Trust

Recent events have shifted market sentiment towards valuing trust and market integrity more significantly. The industry's acknowledgment of this shift was seen as a positive step towards establishing a more secure and trustworthy environment. The role of regulatory actions and industry initiatives in reinforcing this sentiment was discussed, with a focus on building consumer confidence.

# 5. Challenges and Opportunities for Implementation

Participants acknowledged the complexities involved in implementing these strategies, particularly in a rapidly evolving market. The challenges of balancing innovation with regulatory compliance, ensuring privacy while enhancing transparency, and achieving global cooperation

among regulators were discussed. Despite these challenges, there was optimism about the potential for collective industry efforts to drive meaningful improvements.

# **Proposed Actions**

- Develop and Promote Self-Regulatory Practices: Encourage the creation and adoption of industry-wide standards and best practices, facilitated by an SRO that can enforce compliance and accountability.
- Enhance Consumer Education: Implement comprehensive educational initiatives to inform consumers about the risks associated with cryptocurrency investments and ways to protect themselves.
- Foster Regulatory Collaboration: Strengthen the dialogue and collaboration between the industry and regulators to ensure that regulatory frameworks are adaptable, effective, and supportive of innovation.
- Build Trust and Integrity: Prioritize efforts to enhance market integrity and build consumer trust, recognizing these as foundational for the long-term success and growth of the industry.

#### Conclusion

The meeting highlighted a collective commitment among stakeholders to address the pressing issues of market integrity, consumer protection, and regulatory compliance within the cryptocurrency industry. While recognizing the challenges ahead, participants expressed a willingness to continue the dialogue and work collaboratively towards establishing a safer, more transparent, and trustworthy ecosystem. Future sessions will build on the discussions and insights shared, aiming to translate them into actionable strategies and meaningful progress.

# Transcript (Anonymised)

Facilitator: Welcome, everyone. Thank you for joining today's workshop, which is guided by principles of confidentiality to encourage an open and fruitful dialogue. We'll adhere to a rule of anonymity, allowing the use of shared information without attributing it to any individual to maintain privacy and foster open discussions. Despite recording for internal use, identities will remain confidential, and contributions will be anonymized.

# [Instructions for Participation]

Facilitator: For an effective session, we request a volunteer for note-taking, accessible through a shared digital document. Contributions will be edited to ensure anonymity. We encourage clear communication for all attendees, utilizing microphones for clarity, and for remote participants, please signal your intent to speak through digital means to maintain an organized discussion.

#### [Introduction Round]

Facilitator: Let's begin with introductions from our main discussants, emphasizing their expertise without revealing personal details.

Discussant 1: Speaks on the importance of supervising financial activities to ensure compliance with regulatory standards, emphasizing the role of technology in financial oversight.

Discussant 2: Shares insights on the significance of blockchain technology in enhancing regulatory practices and the challenges of integrating traditional and digital financial systems.

Discussant 3: Highlights the critical role of technology in identifying and mitigating online financial crimes and the importance of collaboration between different sectors.

Discussant 4: Discusses the intersection of technology and market integrity, focusing on the detection and prevention of market abuse.

#### Additional Contributions:

Several other participants from various backgrounds shared their perspectives on the integration of technology in financial systems, the challenges of regulatory compliance in a digital age, and the opportunities for innovation in financial practices.

#### [Conclusion of Introduction Round]

Facilitator: With introductions completed, the facilitator emphasized the workshop's goal of fostering an inclusive and interactive discussion among all participants, inviting further contributions from the audience to enrich the dialogue.

### [14:13] Workshop Goal Introduction by Facilitator

The workshop aims to explore the potential of on-chain analysis beyond traditional applications like anti-money laundering (AML) and Know Your Customer (KYC). The facilitator expresses curiosity about expanding the scope of on-chain and off-chain analysis and seeks to understand its technology and application scope by 2024.

# [15:15] Discussion Prompt by Facilitator

The facilitator invites contributions from participants on their thoughts regarding on-chain analysis technology and its future applications.

# [15:22-23:39] Main Discussion by Participant

A participant elaborates on the evolution of on-chain analytics, initially focused on money laundering, to encompass market integrity and abuse. The discussion highlights the blend of on-chain and off-chain analysis to ensure comprehensive market surveillance. The participant underscores that while digital assets offer transparency, significant activities still occur off-chain, necessitating a combined analytical approach for enhanced compliance and market safety. Examples of on-chain analytics' power are shared, including detecting and preventing scams such as rug pulls through smart contract analysis. The participant shares insights on typical fraudulent smart contract functions like honeypots, hidden mint functions, and balance modifiers, emphasizing the importance of awareness and regulation to safeguard against such schemes.

#### [Continued Discussion on On-Chain Analysis and Its Applications] (14:13 - 15:22)

- Facilitator: Introduces the session's goal to explore on-chain analysis beyond its traditional applications, such as anti-money laundering (AML) and know your customer (KYC), aiming to understand its broader implications for 2024.
- Speaker 5: Highlights the initial focus on money laundering within the digital asset industry and the emerging importance of market integrity and abuse detection.
   Emphasizes the significance of both on-chain and off-chain analysis for a comprehensive view of market activities.

[Exploring Market Abuse and Integrity in Digital Assets] (15:29 - 20:40)

Speaker 5: Discusses the transition of trading volumes from centralized platforms to
on-chain and decentralized finance (DeFi) applications. Stresses the importance of
extending on-chain analytics to off-chain trading venues to maintain market integrity.
Mentions collaboration with regulatory bodies and analytics firms to enhance safety and
compliance in the financial ecosystem.

[Detecting and Preventing Scams and Market Manipulation] (20:40 - 23:39)

• Speaker 5: Provides insights into identifying and mitigating scams, such as rug pulls hard-coded into smart contracts, utilizing on-chain transparency. Discusses various scam typologies, including honeypots and hidden mint functions, and the role of community and regulatory awareness in preventing exploitation.

[Discussion on Hard-Coded Fraud and Transparency] (24:28 - 27:51)

• Facilitator & Speaker 5: Explore the potential of blockchain's transparency to automatically detect scams and the importance of creating public awareness. They discuss the proportion of hard-coded scams in the market and the opportunities blockchain transparency offers for fraud prevention.

[Addressing the Challenges of Auditing and Standards] (27:17 - 29:58)

• Speakers 1 & 2: Delve into the challenges of setting standards for smart contract deployment and auditing in a decentralized ecosystem. They highlight the need for collaboration between the public and private sectors to establish safety and integrity standards for the growing digital asset market.

[The Role of Off-Chain Analysis in Enhancing On-Chain Transparency] (30:24 - 35:02)

• Speakers 2 & 4: Emphasize the critical role of off-chain analysis in complementing on-chain data to provide a fuller picture of digital asset transactions. They discuss the importance of traditional finance indicators in detecting crypto-related illicit activities and the value of integrating traditional financial analysis with blockchain technology.

This section continues to follow the structure of anonymizing specific details while capturing the essence of the discussion on on-chain and off-chain analysis, their implications for financial integrity, and the collaborative efforts needed to address challenges in the digital asset space.

• Speaker 2 emphasizes the importance of integrating various data points to gain a holistic understanding of blockchain activities, highlighting the potential for future developments that extend beyond mere transactional data to include more qualitative, social, and behavioral insights.

[The Evolution of On-Chain Analytics and Future Directions] (37:19 - 44:51)

• Facilitator questions the advancements in on-chain analytics, probing into how firms might leverage more complex, sophisticated data for a fuller picture of blockchain interactions. Speaker 3 responds by outlining the foundational work of analytics firms in making blockchain data actionable and meaningful, mentioning efforts to expand the scope of analysis to include a broader range of illicit and legitimate activities and the importance of integrating off-chain data for richer insights.

[The Balance Between Visibility and Privacy] (44:51 - 50:59)

• The discussion turns to the potential for extracting social and behavioral data from blockchain transactions, with Speakers 1 and 3 contemplating the privacy implications of such analysis. They consider how increased data availability on blockchains might enhance analytical capabilities while also raising concerns about privacy and the ethical use of data. Speaker 3 underscores the need for analytics firms to navigate the delicate balance between providing visibility into blockchain activities and respecting individual privacy.

[Monitoring for Malicious Activities and Standards] (50:01 - End)

Speaker 1 inquires about methods for identifying scams and rug pulls, suggesting the
integration of web 2.0 intelligence with on-chain data to spot malicious activities.
Speaker 5 emphasizes the ongoing challenge of setting standards in a rapidly evolving
blockchain ecosystem and acknowledges the role of traditional web platforms in
organizing fraudulent schemes. He also mentions the importance of recognizing that
many scams are not necessarily sophisticated in their execution but may exploit
developer oversights or outdated practices.

Throughout, the participants focus on the potential of on-chain analytics to evolve towards more nuanced and comprehensive understandings of blockchain activities. They highlight the importance of expanding analytical techniques to incorporate a wider array of data, including social and behavioral signals, while remaining vigilant about the privacy implications of such approaches. The discussion also touches on the necessity of bridging on-chain and off-chain data sources to effectively monitor and counteract malicious activities within the blockchain space.

[Navigating the Balance Between Innovation and Regulation] (50:59 - 54:22)

• Speaker 5 underscores the importance of maintaining a dialogue between the crypto industry and developers to navigate the balance between innovation and stringent practices. The emphasis is on self-regulation within the crypto community to foster growth while ensuring safety and compliance, highlighting the industry's responsibility in handling people's investments with care.

[The Importance of Behavioral Analysis Over Identity] (54:22 - 56:40)

• Speaker 5 connects the discussion on standards and regulation to the potential of focusing on behavioral analysis to detect malicious activities in the crypto space. This approach could help maintain user privacy while effectively countering fraud, exemplifying how the Bitfinex case utilized behavioral patterns rather than immediate identification to trace and address wrongdoing.

[Open Standards and Public Contributions to On-Chain Analysis] (56:40 - End)

• The conversation shifts towards the concept of making on-chain analysis methodologies more open and accessible. Speaker 3 and Speaker 1 discuss the potential for a distributed, public-supported approach to on-chain analysis, leveraging the collective effort of blockchain users. Speaker 4 emphasizes the importance of scaling data collection and analysis to identify and mitigate fraud, including detailed observations on the behavior of fraud actors within crypto communities.

Throughout this segment, the panelists navigate the complexities of balancing innovation with regulation, the potential of behavioral analysis in maintaining privacy, and the idea of democratizing on-chain analysis to empower the wider community. The discussions underscore the ongoing need for dialogue, adaptability, and collaboration within the rapidly evolving crypto ecosystem to ensure its safety, integrity, and growth.

[Empowering Consumers to Conduct Due Diligence] (01:02:08 - 01:06:47)

• Speaker 1 delves into the importance of empowering consumers within the blockchain ecosystem to make informed decisions rather than attempting to exclude bad actors from an inherently open system. Highlighting the public nature of blockchain, the speaker emphasizes education and information sharing as key strategies for protecting users. This approach advocates for a focus on enabling the broader community to identify and avoid

transactions with identified bad actors, underlining the collective responsibility of all ecosystem participants, from exchanges to users, in fostering a safer environment.

[The Role of Regulation and Industry Responsibility] (01:06:47 - end)

• Speakers 2, 3, and 4 discuss the critical roles of regulation, industry responsibility, and global cooperation in enhancing consumer protection within the cryptocurrency space. They stress the need for regulatory frameworks that keep pace with technological advancements and for the industry to proactively adopt consumer protection measures. Speaker 3, an ex-regulator, offers an optimistic view on the progress made in regulation within the relatively short history of the cryptocurrency industry, while Speaker 5 explores the challenges of addressing market manipulation and insider trading through a combination of on-chain and off-chain data analysis.

Throughout this discussion, the panelists explore various facets of protecting and educating cryptocurrency users, the essential role of regulation in shaping a safer ecosystem, and the ongoing challenges of distinguishing between legitimate trading strategies and manipulative behaviors. The conversation underscores the complexity of fostering a secure and inclusive digital asset environment, where both regulatory oversight and industry innovation play pivotal roles.

In the concluding portion of the discussion, the panelists focus on the theme of improving consumer protection and education within the blockchain and crypto industry. They touch upon the importance of industry-wide efforts and the role of exchanges in safeguarding users against fraudulent activities. Key points raised include:

- Self-Regulation and Industry Standards: There's an emphasis on the crypto industry's need for self-regulation, with a focus on establishing common standards and best practices. This involves continuous dialogue and collaboration among stakeholders to address the dynamic challenges of market integrity and consumer protection.
- Educating the Consumer Base: Highlighting the critical role of educating and informing the broader user base to prevent engagement with malicious actors. The discussion points to the necessity of equipping consumers with the knowledge and tools to make informed decisions, thereby enhancing their ability to conduct due diligence (DYOR).
- The Role of Exchanges: Exchanges are identified as pivotal players in implementing protective measures. By leveraging data and analytics, exchanges can inform their users about potential risks and enforce policies that minimize exposure to fraudulent activities.

- Regulatory Collaboration and Feedback: The importance of a robust feedback loop between the industry and regulators is underscored, with a call for collaborative efforts to refine regulatory standards and ensure compliance across the ecosystem.
- Market Sentiment and Trust: Recent events have shifted market sentiment towards valuing trust and integrity more significantly. This change underscores the industry's recognition of the importance of fostering a secure and trustworthy environment for users.

The discussion concludes with an acknowledgment of the complexity of these issues and the need for ongoing dialogue within the industry to address them effectively. The participants express a commitment to continue these discussions in future sessions, aiming to contribute to the development of a safer and more transparent blockchain and crypto landscape.