# Evaluating Progress in Web3 Grants: Introducing the Grant Maturity Index.

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#### **Abstract**

This report introduces the Grant Maturity Index (GMI), a novel evaluative framework designed to assess the maturity and operational effectiveness of Web3 grant programs. As Web3 continues to develop, the decentralized nature of these programs brings both opportunities and challenges, particularly when it comes to governance, transparency, and community engagement. Traditional funding models are often governed by standardized processes, but Web3 grants lack such consistency, making it difficult for grant operators to measure the long-term success of their programs.

The *Grant Maturity Index (GMI)* was created through *exploratory applied research* to address this gap. Inspired by the World Bank's GovTech Maturity Index (GTMI), the GMI is tailored specifically for the decentralized Web3 ecosystem. The GMI evaluates key dimensions of grant programs—governance, transparency, operational efficiency, and community engagement – providing grant operators with a clear benchmark for assessing and improving their programs.

The primary objectives of this research are to:

- Identify the structural indicators that adequately describe Web3 grant programs.
- Describe optimal outcomes for programs by evaluating their maturity across key operational areas.

In this report, the GMI is applied to four major Ethereum Layer 2 grant programs – *Arbitrum, Mantle, Taiko Labs*, and *Optimism*. These case studies highlight areas where Web3 grant programs require improvement, particularly in *standardizing processes*, enhancing *transparency*, and increasing *community participation*.

 $\textbf{Keywords} \ \ \text{Maturity Model} \cdot \text{Web3 Governance} \cdot \text{Decentralized Autonomous Organizations} \cdot \text{Crypto-economic Systems} \cdot \text{Mixed-methods}$ 

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# 1 Key Findings

By applying the *Grant Maturity Index (GMI)*, grant operators gain access to a structured framework that helps them assess the maturity and operational effectiveness of their Web3 grant programs. The GMI provides a baseline for evaluating governance, transparency, and community engagement, allowing operators to identify gaps and opportunities for improvement. While primarily a diagnostic tool, the GMI also offers practical insights that empower grant operators to improve program processes, ensure more consistent evaluation standards, and better align their initiatives with the evolving needs of the ecosystem.

Ultimately, this research contributes to a deeper understanding of how decentralized funding models can be optimized, helping Web3 grant programs move toward greater sustainability and impact. Nevertheless, three main findings emerged in the first analysis cycle of the GMI. These are the following.

#### Lack of standardization

The absence of uniform reporting, evaluation, and governance structures hinders the ability to effectively measure program maturity and indicates low maturity across all programs. The GMI provides a structured approach to support Web3 grant programs in addressing their maturity gap by offering a toolkit for comparing grant outcomes and supporting long-term program success.

# Transparency challenges

While some programs, like *Arbitrum's Short Term Incentive Program (STIP)*, offer public voting mechanisms and regular updates, there remains an overall lack of transparency in Web3 grant programs. The GMI emphasizes the need for formalized criteria for evaluating outcomes and standardized dispute resolution processes to enhance accountability.

#### Community involvement

Effective community engagement is crucial to decentralized governance models, yet many Web3 grant programs struggle with communicating to applicants, grantees, and stakeholders, for example, when informing about delayed decision-making. Improving communication channels and creating more opportunities for community participation will increase both the legitimacy and operational effectiveness of these programs.

#### 2 Introduction

Web3 grants represent a new approach compared to established funding practices. Most significantly Web3 grant funding often relies on decentralized governance models. Despite their potential to redefine how projects are funded, these novel funding practices are yet to be standardized and the gap towards a comprehensive evaluative framework still needs to be filled. Existing research, such as studies on decentralized science (DeSci) [1] and Web3 governance [2], only mention selected issues, leaving a systematic approach to be desired. This lack of thorough, systematic research poses substantial challenges for Web3 grantors, DAO operators, and grantees who must often navigate these waters with limited formal guidance.

This report showcases our exploratory applied research, aiming to develop the Grant Maturity Index (GMI), a novel evaluative framework inspired by the World Bank's GovTech Maturity Index (GTMI) [3]. The GTMI effectively assesses the integration of technology in government services with a focus on governance, citizen engagement, and operational efficiency—areas that provide a foundational model for our adaptation. The GMI integrates elements of the decentralized and dynamic elements of the Web3 ecosystem, offering grant operators a systematic tool to enhance transparency, accountability, and effectiveness in their programs. To that end, the report is guided by these two research questions:

- 1. What indicators sufficiently describe the structure of Web3 grant programs?
- 2. How can the outcomes of Web3 grant programs be optimally described?

The report proceeds through several key sections, first examining the background and motivations behind the creation of the GMI, second detailing the development of the GMI framework adapted from the GTMI, and third applying the GMI within various Web3 grant contexts to assess its effectiveness in enhancing transparency, accountability, and operational

efficiency. This exploratory approach informs both the academic and practitioners' discourse as a resource on the specific impacts and operational metrics of grant programs, extending its utility to stakeholders within and beyond the Web3 community.

#### 3 Motivation and Goals

As researchers, we understand the crucial role that Web3 grant programs play in driving innovation and growth within the crypto-economic systems and the communities running on top of them. However, a major challenge remains: the lack of standardized methods to effectively assess the effectiveness and maturity of these programs.

To address this, we have developed the Grant Maturity Index (GMI). This tool is designed to provide grant operators with a clear baseline and benchmark to measure the maturity of their programs, helping identify key areas for improvement. Our initial application of the GMI to Web3 grants aims to foster more transparent, effective, and impactful grant programs, contributing to sustained growth across the ecosystem. Our goal is to offer a toolkit that helps grant operators progressively evaluate and enhance their programs' maturity. The primary objectives for the research and the toolkit are the following:

- *Identifying challenges* We pinpoint the specific obstacles that hold back the maturity of grant programs in the Web3 environment.
- Creating a theoretical basis We develop strategies that are flexible and responsive to the decentralized nature of Web3.
- *Indicating best practices* We provide actionable insights and best practices that can enhance both the governance and operational effectiveness of Web3 grants.

By focusing on these objectives, we aim to significantly discourse on impact measurement in Web3 grants. Through both the development and application of the GMI, we're laying the groundwork for more efficient grant management, aiming to nurture a robust and thriving Web3 ecosystem.

# 4 Background

Funding towards innovation has historically driven technological and organizational growth, providing critical support to various industries and public sectors [4,5]. However, the introduction of decentralized autonomous organizations (DAOs) to Web3 has disrupted these traditional frameworks. DAOs bring new challenges, particularly in transparency and governance, areas that are still under-researched [1,6].

Unlike traditional grant programs, Web3 grants often operate in environments without fixed guidelines or established structures. Meanwhile, the decentralized structure and dynamic working environment of Web3 adds complexity to how funds are allocated, how risks are managed, and how technical assistance is provided. These challenges require innovative and agile management practices that reflect the unique demands of decentralized systems [7,8].

Research in this area remains relatively underdeveloped. Although case studies and preliminary frameworks, such as quadratic funding and retroactive grants, have been explored in gray literature, these models have not been rigorously tested for their long-term effectiveness in the context of the disbursement of Web3 grants. This gap in the literature, particularly concerning the evaluation of Web3 grants' performance and impact [9].

The Grant Maturity Index (GMI) aims to fill this gap by taking inspiration from the World Bank's GovTech Maturity Index (GTMI) and adapting traditional metrics for governance, fund distribution, and stakeholder engagement to the decentralized structure of Web3. The goal of the GMI is to enhance transparency, accountability, and the effectiveness of Web3 grant programs, offering a structured way to evaluate and improve these emerging funding models [3]. By providing a clear evaluative framework, the GMI addresses a critical need in the rapidly evolving Web3 space [7, 10].

The development of the GMI sets the stage for a more robust and systematic evaluation of Web3 grants. By integrating insights from both traditional and decentralized funding models, the GMI not only aims to improve the operational effectiveness of Web3 grants but also seeks to engage a broader range of stakeholders. In the long term, this framework should inform further research and development through its considerations of indicator selection and framework score calculation, fostering transparency and accountability in Web3.

# 5 Methodology

This section provides an abridged version of the approach used in our research, applied to develop and validate the Grant Maturity Index (GMI), which combines qualitative and quantitative research methods. This approach ensures that our findings are not only comprehensive but can also be applicable and robust, addressing the real-world complexities of Web3 grant programs.

The methodology for this research was designed to develop and validate the Grant Maturity Index (GMI), combining both qualitative and quantitative research methods. This approach allows for a comprehensive analysis of Web3 grant programs, addressing their complex and evolving nature. The methodology is structured into distinct steps. The first steps involved a detailed *state-of-the-art analysis* of existing maturity indices from various disciplines [11–13], including sustainable supply chain management and institutional complexity in health sciences. This provided a foundation for defining the maturity-related variables relevant to Web3 grant programs.

Following the state-of-the-art analysis, the *research design* was structured to assess the maturity of Web3 grant programs across several dimensions. These included governance structures, operational efficiency, community engagement, and the overall effectiveness of grants in driving the intended outcomes. This framework was applied to selected Web3 grant programs, collecting data through a combination of *qualitative surveys* and *quantitative web scraping* from publicly available sources.

The data collection covered grant programs from major Ethereum Layer 2 providers, including *Arbitrum, Mantle, Optimism, and Taiko*, which represent the subset that was selected for evaluation. The data collection process involved reviewing documents, analyzing grant applications, and gathering additional data from platforms such as *Charmverse* [14] and community forums. These data points were then used to calculate the maturity index and complemented the qualitative *rubric scoring framework*.

The *quantitative component* of the GMI incorporates metrics such as grant size, distribution patterns, application-to-allocation ratios, and operational transparency, while the *qualitative component* involves self-assessment surveys completed by grant operators to provide insights into the governance and community engagement processes.

Finally, the research team cross-validated findings, ensuring that both qualitative insights and quantitative data aligned to provide a robust evaluation of each grant program's maturity. This mixed-methods approach allowed for a comprehensive assessment of each program's operational capabilities, transparency, and effectiveness in achieving its goals. The results were analyzed to identify common patterns and challenges across the Web3 grant programs, providing valuable insights for future improvements.

#### 5.1 Development of the GMI

The GMI is structured by six categories, which organize the indicators used for qualitative and quantitative scoring. The framework is designed to assess both operational and structural elements of Web3 grant programs, which allow evaluating how well grant programs meet their objectives and remain accountable to their communities.

- Focus Areas and Objectives (FAO): Examining grant sizes, types, and their integration within funding rounds.
- Program Structure and Organization (PSO): Analyzing sources of funds, vesting periods, and how clearly organizational roles and processes are defined.
- Governance (GOV): Assessing the clarity of program objectives, the robustness of mission statements, and the effectiveness of governance mechanisms.
- Effectiveness and Impact (EFI): Evaluating criteria for success, the thoroughness of audits, and the overall impact of the programs.
- Transparency and Accountability (TAC): Measuring the ratios of applications to allocations and overall operational transparency.
- Community Engagement (COM): Observing the number of applicants, the duration of grants, and insights into budget allocations.

#### 5.2 Defining Grant Maturity

In the Web3 context, *maturity* is viewed as a dynamic process reflecting the evolution of grant programs through the below stages, which we hope to aid grant operators in identifying their current standing and guide future growth and improvements.

- Experimental Maturity: Where programs test new funding mechanisms and governance models.
- Foundational Maturity: Basic governance and organizational structures are established.
- Developmental Maturity: Programs with more structured systems and clear metrics for success.
- Advanced Maturity: Highly standardized processes with robust governance and active community engagement.

#### 5.3 Theoretical Framework

The GMI draws on established maturity models from health sciences, public sector research, and institutional complexity, adapting them to fit the unique dynamics of Web3 ecosystems. This framework incorporates both qualitative assessments and quantitative metrics to offer a complete evaluation of grant programs.

# 5.4 Qualitative Assessment: Self-Assessment Survey

The qualitative side of the GMI is based on a self-assessment survey that evaluates Web3 grant programs across several critical areas. This tool captures subjective insights from program operators about their governance, community engagement, and alignment with ecosystem needs. Each program is scored using a 1 (Low) to 5 (High) scale, covering areas such as clarity of objectives, governance, and transparency. These scores are aggregated into key clusters that allow for a comprehensive evaluation of program operations. Practitioners can use this rubric to evaluate their programs, identify areas for improvement, and benchmark their progress against best practices in Web3. The assessment criteria include:

- *Clarity of Objectives:* How clearly the program's goals are communicated.
- Alignment with Ecosystem Needs: The program's ability to address emerging ecosystem needs.
- Diversity of Supported Projects: The variety of supported projects across different verticals.
- Organizational Clarity: The transparency and efficiency of the program's structure.
- Governance: The decision-making processes and overall governance structure.
- Community Participation and Engagement: How effectively the community is involved in the grant process.

#### 5.5 Quantitative Assessment: Consolidated Metrics

To complement the qualitative insights, the GMI incorporates a quantitative analysis focused on measurable metrics that reflect the operational maturity and effectiveness of the programs. Selected metrics are displayed in Table 1 below.

# 5.6 Calculation of the GMI Composite Index

The GMI composite index was developed through a structured process presented below and consists of two main components. These components are the rubric scores from the self-assessment form for each program and the final Grant Maturity Index (GMI), both presented as normalized composites. The index follows an additive approach with equal weights for all rubric indicators. Normalizing the rubric scores ensures that variations within categories, such as Community Engagement, do not disproportionately affect the final GMI score. The process for calculating the GMI involved collecting data, normalizing it using a min-max function, calculating and aggregating rubric scores, and finally normalizing them to produce the GMI composite score.

- 1. Each metric was normalized using min-max scaling to ensure comparability across different programs and variables.
- 2. Normalized scores were aggregated within their respective categories (e.g., Governance, Effectiveness) to create an overall rubric score.

Category	Description
Grant Size and Distribution	This includes total, minimum, maximum, average, and median grant sizes,
	as well as types of grants and funding mechanisms.
Program Structure	Evaluating organizational clarity and the platform used for managing grant applications.
Evaluation and Transparency	Merging objectives, documentation, and accessibility into one category that
	covers how transparent programs are with their goals and evaluation criteria.
Operational Efficiency	Ratios such as application-to-allocation share and manager-to-applicant ratio,
	which show how efficiently a program operates.
Applicant and Grant Dynamics	Applicant numbers, grant allocation per round, and average grant duration.
Financial Management	The overall budget since inception, budget per round, and the ratio of operational
	costs to grant allocations.
Program Longevity and Impact	Measures how long the program has been active, total round count, and its impact
	on the ecosystem.

Table 1: Selected Metrics of the Quantitative Scoring Framework

- 3. All rubric categories were given equal weight to provide a balanced evaluation across all factors.
- 4. The rubric scores were aggregated into a final composite GMI score for each program, offering a comprehensive measure of maturity.

#### 5.7 Data Collection and Validation

For the selected sample consisting of documents from the Web3 grant programs of Arbitrum, Mantle, Optimism, and Taiko, the data for the indicators was collected from grant applications, supporting documentation, and lists on the Charmverse platform. Furthermore, the respective social media accounts of the awarding organizations on X, Mirror.xyz, as well as their forums were used to retrieve and aggregate primary data. The data collection and validation process can be broken down into five steps. They are described as follows.

- 1. Gathering data from grant applications, supporting documentation, and relevant digital platforms.
- 2. Confirming the accuracy of collected data through cross-referencing with additional sources.
- 3. Applying the GMI scoring system to evaluate each program based on the gathered data.
- 4. Conducting reviews by external experts to ensure unbiased and rigorous assessment.
- 5. Compiling and finalizing the scores to produce a conclusive evaluation for each program.

# 6 Sample Selection

The programs selected for this analysis – Arbitrum's STIP [15], Mantle's Grants Program [16], Optimism's Growth and Experiment Program [17], and the Taiko grant program [18] – were chosen for their shared focus on network growth, innovation, and community engagement. Their operations within the communities of Ethereum Layer 2 networks made them ideal for comparing the maturity and effectiveness of grant programs. Below are details of each program:

# 6.1 Arbitrum's Short Term Incentive Program (STIP)

Arbitrum's Short Term Incentive Program (STIP) distributed 71.4 million ARB to support network protocols and foster ecosystem growth. Initially capped at 50 million ARB, the program was later expanded by an additional 21.1 million ARB through the STIP Backfund to support projects that were approved but missed out on funding in the first round.

# 6.2 Mantle's Grants Program

Mantle's Grants Program supports projects that align with its vision of expanding and enhancing the Layer 2 ecosystem. It focuses on funding innovative solutions that drive user adoption, improve scalability, and foster decentralized application development on Mantle.

#### 6.3 Optimism's Growth and Experiment Grants

The Optimism Growth and Experimentation Grants, managed by the Growth Experiments Sub-Committee, focus on enhancing user engagement and driving sustainable growth on the Optimism Layer 2 network. By prioritizing experimentation and innovation, these grants align with the broader ecosystem goals of scaling adoption. As part of the larger Optimism Grants House, which is divided into the Builder and Growth and Experiment subcommittees, this program was chosen as a sample for its clear alignment of goals and operations, making it an ideal candidate for evaluating grant maturity.

# 6.4 Taiko Grant Program

The Taiko Grant Program is designed to drive adoption of Taiko's Layer 2 network by funding projects that enhance its infrastructure and boost ecosystem engagement. The program incentivizes innovation, supporting both emerging and established projects to expand the network's capabilities.

# 7 Findings and Insights

This section provides Web3 grant program operators with a practical understanding of how the Grant Maturity Index (GMI) framework can assess key operational challenges, develop theoretical frameworks for improvement, and identify best practices for enhancing governance, transparency, and community engagement. By aligning with the broader research goals, this section focuses on delivering actionable insights that practitioners can apply to optimize their grant processes, improve decision-making efficiency, and foster more effective community participation.

The Grant Maturity Index (GMI) was applied across multiple Web3 grant programs, including case studies such as Arbitrum's STIP, Mantle's Grants Program, Optimism's Growth and Experiment Grants, and Taiko's inaugural grant program. These programs were selected based on their relevance in fostering innovation within the Ethereum Layer 2 ecosystem. The GMI framework used both qualitative assessments (via self-assessment surveys) and quantitative data (such as grant size, evaluation timeframes, and community engagement metrics) to evaluate each program's maturity. The research was guided by the following research questions:

- 1. What indicators effectively describe the structure of Web3 grant programs?
- 2. How can the outcomes of Web3 grant programs be optimally described?

The GMI was employed to explore how each program's structure, governance, transparency, and community engagement contribute to its overall maturity. For example, Arbitrum STIP's decentralized, on-chain governance structure was compared with Mantle's centralized, foundation-driven governance model, highlighting the trade-offs between operational efficiency and community involvement. These findings helped identify best practices and areas for improvement, such as the need for clearer decision-making processes and better alignment with ecosystem needs.

# 8 Program Specific Findings

The Grant Maturity Index (GMI) framework was applied across four distinct Web3 grant programs: Arbitrum, Mantle, Taiko Labs, and Optimism. These programs were evaluated across multiple rubric categories, including governance, operational efficiency, transparency, and community engagement. Below are the detailed findings from each program.

ID	Description	Mantle	Taiko	Optimism	Arbitrum STIP
GMI	Composite (normalized rubric scores)	1.1807	3.9312	3.2945	1.8415
FAO-QN	Focus Areas and Objectives	3.8764	3.8364	4.3498	5.5300
PSO-QN	Program Structure and Organisation	4.0000	4.5000	2.0000	2.0000
GOV-QN	Governance	2.7857	2.5000	3.5000	1.1429
EFI-QN	Effectiveness and Impact	3.0000	3.0000	5.0000	3.0000
TAC-QN	Transparency and Accountability	1.5441	3.0347	3.6180	1.9188
COM-QL	Rubric Scoring Community Engagement	8.0192	14.6587	11.0217	4.8816

Table 2: Selected GMI Composite Scores

#### 8.1 Arbitrum

The Arbitrum grant program performed well in most categories, particularly in *Program Structure and Organization (PSO)* and *Governance (GOV)*. The decentralized nature of its governance ensures a high degree of community involvement, although this slows decision-making. In the *Focus Areas and Objectives (FAO)* rubric, Arbitrum showed a balanced approach, but challenges emerged in ensuring alignment between grant allocation and ecosystem needs. In terms of *Effectiveness and Impact (EFI)*, Arbitrum showed moderate success, with grant programs resulting in tangible growth and ecosystem development.

# 8.2 Mantle (BitDAO)

Mantle, on the other hand, displayed a more centralized structure, which contributed to high *operational efficiency (PSO)* but limited community involvement. Mantle's *Focus Areas and Objectives* showed some challenges, particularly in aligning grant decisions with broader ecosystem needs, as the program leaned heavily towards consumer product grants with less diversity. Mantle scored moderately in *Governance*, as the centralized decision-making allowed for quicker responses, but at the cost of transparency.

#### 8.3 Taiko Labs

Taiko Labs struggled with diversification in its grant allocations, as most supported projects were closely tied to infrastructure development rather than community-driven initiatives. Despite this, Taiko's *governance structure (GOV)* showed promise, reflecting its ongoing efforts to engage the community and decentralize its decision-making process. However, its *Effectiveness and Impact (EFI)* were rated lower due to the limited measurable success of its projects so far.

# 8.4 Optimism

Optimism's *Governance (GOV)* and *Transparency and Accountability (TAC)* were among the highest-rated areas. The program has clearly defined structures with active community participation through the Growth Experiments Sub-Committee. Optimism's focus on decentralization through transparent processes and grant documentation ensured a robust evaluation of project outcomes. In terms of *Effectiveness and Impact (EFI)*, Optimism scored well, demonstrating the success of several funded projects, particularly those targeting user growth and network activity.

# 9 Key Findings – Focus Areas

# 9.1 Focus Areas and Objectives

# 9.1.1 Challenges

Across multiple programs, there is inconsistent communication of program objectives and how they align with broader ecosystem needs. Many programs face difficulties ensuring that participants fully understand the strategic goals, often resulting in misalignment between the program's intent and the projects it funds.

## 9.1.2 Findings

- Arbitrum STIP: While objectives were clear, the complexity of managing multiple rounds and back funding initiatives caused communication gaps.
- Mantle: Objectives were communicated but lacked specificity and depth, with a narrow focus on consumer products.
- Taiko: Goals were explicit but lacked transparency in how objectives were tied to decision-making processes.

# 9.1.3 Recommendations

Programs should focus on establishing and communicating clear, strategic objectives that are aligned with the current and evolving needs of the ecosystem. This ensures participants understand the program's broader intent and reduces misalignment between project selection and ecosystem goals.

# 9.2 Program Structure and Organization

#### 9.2.1 Challenges

Operational inefficiencies, such as unclear application processes and inconsistencies in organizational frameworks, are common across Web3 grant programs. These issues impede program clarity, efficiency, and ultimately reduce the effectiveness of the program.

#### 9.2.2 Findings

- Arbitrum STIP: The application process was comprehensive but delayed by KYC backlogs and unclear fund distribution procedures.
- Mantle: Centralized structures help clarify processes, but the application process is not fully transparent, particularly around KYC onboarding.
- Taiko: The grant process lacked clarity, with inefficiencies in both processing and decision-making.

#### 9.2.3 Recommendations

Standardizing operational procedures, improving resource management, and clearly defining roles within the organization will help reduce inefficiencies. Programs should streamline processes and make the application stages transparent and accessible to all participants.

#### 9.3 Governance

#### 9.3.1 Challenges

Decentralized governance models are designed to encourage community involvement, but they often lead to inefficiencies, communication challenges, and delays in decision-making.

# 9.3.2 Findings

- Arbitrum STIP: Decentralized governance fostered community engagement but led to slow decision-making and communication breakdowns, especially during tight timelines.
- Mantle: The decision-making process was centralized within internal employees, limiting decentralization and introducing potential biases.
- Taiko: Governance was centralized, leading to vague decision-making timelines and minimal community participation.

## 9.3.3 Recommendations

Programs should implement clear governance structures that balance decentralized engagement with efficient decision-making. Formalized decision-making processes and dispute resolution mechanisms will reduce delays and foster better communication between stakeholders.

#### 9.4 Effectiveness and Impact

# 9.4.1 Challenges

Inconsistent tracking of project outcomes and a lack of standardized evaluation criteria make it difficult to measure the long-term impact of funded projects.

# 9.4.2 Findings

- Arbitrum STIP: There was limited post-funding tracking, making it hard to assess the long-term success of funded projects.
- Mantle: Little information is publicly available on project outcomes and success rates.

• Taiko: A low success rate of funded projects and limited ecosystem impact were observed, with only a small percentage of grants being funded and completed.

#### 9.4.3 Recommendations

Implement structured, ongoing evaluations that measure both short- and long-term project performance. Regular post-funding assessments will enable grant programs to better understand their impact and make more informed funding decisions in the future.

# 9.5 Transparency and Accountability

#### 9.5.1 Challenges

Many programs face challenges in maintaining transparency, particularly in their evaluation criteria and reporting processes, which undermines trust and accountability within the ecosystem.

# 9.5.2 Findings

- Arbitrum STIP: Inconsistent reporting standards and informal dispute resolution methods reduced transparency, despite public updates and community voting.
- Mantle: Post-grant processes were opaque, with little public reporting on fund use and grantee progress.
- Taiko: There was a lack of public reporting on grantee progress, with updates provided only to Taiko entities.

#### 9.5.3 Recommendations

Programs should develop standardized evaluation frameworks and formal accountability measures, such as regular reporting and public updates. This will enhance transparency and ensure fair assessments of funded projects across all stages of the grant lifecycle.

#### 9.6 Community Engagement

#### 9.6.1 Challenges

Communication gaps and unclear processes limit broader community involvement in governance and decision-making, reducing the diversity of input and the program's overall effectiveness.

#### 9.6.2 Findings

- Arbitrum STIP: While community participation was encouraged, rapid decision-making timelines and communication inefficiencies limited broader input.
- Mantle: There was no community participation in decision-making, and grantees were restricted from engaging with the community.
- Taiko: Minimal community involvement and no structured engagement mechanisms were in place.

#### 9.6.3 Recommendations

Programs should expand their communication strategies and create structured feedback loops to ensure that community input is considered in decision-making. Clearer and more accessible updates will foster better engagement and ensure the community plays a more active role in governance.

# 10 Common Challenges

The evaluation of Web3 grant programs revealed several recurring challenges that indicate a low maturity and low operational efficiency. These challenges, while program-specific, reflect broader issues in the decentralized grant ecosystem. Addressing them will require both strategic adjustments and structural improvements.

One of the most significant challenges relates to *decentralized governance*. While decentralization fosters community participation and shared responsibility, which in turn enhances the legitimacy of programs, it also introduces inefficiencies. For instance, Arbitrum's decentralized governance model encourages active community involvement, but this slows decision-making and complicates communication. In such cases, formalizing decision-making processes and streamlining communication channels would significantly enhance operational efficiency while maintaining the legitimacy that decentralized governance provides.

Another key issue is *transparency*, which varies widely across programs. Arbitrum's use of public updates and community voting promotes trust within its ecosystem. However, the lack of standardized evaluation criteria and informal dispute resolution methods leaves gaps in transparency. This inconsistency was observed in other programs like Mantle and Taiko as well. Standardizing evaluation frameworks and introducing formal dispute resolution mechanisms could bridge these gaps, ensuring that grant outcomes are clearer and more transparent to all stakeholders.

Resource management poses another significant challenge. For example, Arbitrum's milestone-based funding approach is effective in theory, but instances where disbursed grant funds are misused, such as in the case of *Furucombo*, highlight the risks of fund misuse. Programs across Web3, including Mantle and Optimism, face similar issues, where the lack of oversight leads to inefficiencies or even misuse of funds. Introducing stronger oversight mechanisms, along with formalized clawback procedures, would help ensure that resources are allocated and used appropriately, enhancing the overall maturity of these programs.

Operational inefficiencies further complicate the execution of grant programs. KYC delays, application backlog, and extended timelines were noted as common issues across programs, including Arbitrum and Taiko. These delays not only slow down the execution of grants but also affect the overall program outcomes. Streamlining the application and review processes, along with more effective initial planning, could significantly improve efficiency. Such improvements would help ensure that the programs operate in a timely and effective manner.

The presence of *clear governance structures* is strongly correlated with higher program maturity. Arbitrum's STIP Backfund demonstrates that having a transparent and well-organized governance model contributes significantly to a program's success. Programs with well-defined governance structures, such as Optimism's Growth Experiments Sub-Committee, see better engagement and improved decision-making processes. Defining governance structures early and maintaining clarity throughout the lifecycle of the grant program can lead to more effective and impactful outcomes.

A recurring challenge across multiple programs is the *lack of standardized evaluation frameworks*. Inconsistent methods of evaluating grants lead to discrepancies in assessment and decision-making. This issue was particularly evident in Arbitrum, Mantle, and Taiko, where different metrics were used for project success, making it difficult to compare outcomes across programs. Implementing a standardized evaluation framework would improve fairness, accountability, and the overall reliability of assessments.

Lastly, effective communication remains an ongoing challenge. Many programs struggle to keep their communities informed, leading to confusion and disengagement. Programs like Arbitrum and Mantle show that regular updates and clearer expectations are necessary to maintain community involvement. By addressing these communication gaps, programs can foster more active participation, ensuring that the community plays a more engaged role in decision-making processes.

In summary, the common challenges observed across Web3 grant programs – governance inefficiencies, transparency issues, resource management gaps, operational hurdles, lack of standardized evaluation frameworks, and communication breakdowns – highlight the areas where improvements are necessary. By tackling these issues, Web3 grant programs can significantly enhance their maturity, operational effectiveness, and long-term impact on the ecosystem.

#### 11 Limitations

Despite the comprehensive nature of the Grant Maturity Index (GMI) framework, several limitations must be acknowledged. One significant limitation stems from the reluctance of grant managers to provide candid feedback, as many wish to avoid casting their programs in a negative light. This tendency to adhere to what is socially acceptable may result in biased self-assessments, limiting the accuracy of data collected from program operators.

Moreover, some foundations behind these grant programs are incorporated in opaque jurisdictions, which complicates efforts to obtain transparent information regarding their governance and financial management. This opacity can undermine the robustness of the GMI's evaluations, as important aspects of program oversight remain hidden from

scrutiny. Currently, the GMI does not comprehensively assess the long-term sustainability of grant programs, other than by considering the duration of their existence. There is no structured overhead assessment, such as an analysis of administrative costs, that would provide insights into the long-term viability of these programs. This gap limits the GMI's ability to forecast the sustainability of grant initiatives over extended periods.

Additionally, some grant programs function less as avenues for innovation and more as mechanisms to support ongoing operations. In certain cases, grants are utilized as procurement tools for acquiring essential products and services, rather than funding new and innovative projects. There is also evidence suggesting that grant programs can be used as vehicles for mergers and acquisitions, as seen in the communications between GMX and Arbitrum, where grants were reportedly used to support consolidation efforts. For future iterations of the GMI, extending the framework to include broader datasets, such as those suggested by Blockworks, could enhance its evaluative capacity.

To address these limitations, we are developing two anonymous surveys: one targeted at grant operators and the other at grantees and applicants. These surveys aim to gather more objective and comprehensive feedback, helping to mitigate the biases that may currently affect the GMI's assessments.

# 12 Conclusion and Learnings

The application of the Grant Maturity Index (GMI) to multiple Web3 grant programs has given an exploratory overview of the state of grant management. A major takeaway from this analysis is the need for *standardization* across all levels of program design and evaluation. Without uniform processes, it becomes difficult to consistently measure maturity. This lack of standardization hinders effective comparisons between programs and limits the ability to identify areas for improvement. Therefore, standardizing key components ensures the long-term success of Web3 grant programs. Programs like Arbitrum, Mantle, and Taiko, which show variations in transparency and evaluation metrics, highlight the need for this convergence on standardized evaluation and operating procedures.

Furthermore, transparency remains a significant challenge across the programs evaluated. While transparency is often cited as a core value of decentralized ecosystems, many grant programs struggle to implement consistent and clear reporting procedures. Arbitrum, for example, while public updates and community voting do occur, inconsistent evaluation criteria and informal dispute resolution processes create gaps in accountability. This issue is mirrored across other programs such as Mantle and Optimism, indicating that without formalized reporting and dispute resolution mechanisms, it will be difficult to build the level of trust needed for program sustainability.

Another key learning is that *community involvement* is central to decentralized governance, but many programs face barriers when it comes to communication efficiency and decision-making timelines. Programs like the one of Arbitrum, which emphasize community engagement, often experience slower decision-making processes due to their decentralized nature. Expanding and streamlining communication strategies, such as clearer channels for feedback and participation, can foster deeper community involvement, thereby improving both the legitimacy and operational effectiveness of these grant programs. Taiko and Mantle could benefit from adopting similar strategies to engage their respective communities more effectively.

The *lack of post-funding evaluations* is another major gap identified in this analysis. Without structured and ongoing assessments of funded projects, it becomes difficult to measure the long-term impact and success of these grants. For instance, programs like Optimism, despite their strong governance structures, would benefit from more consistent evaluations to gauge the ecosystem-wide effects of their grants. Introducing regular post-funding evaluations into the GMI framework would not only help measure project success but also guide future funding decisions, ensuring that grant programs contribute positively to the overall health of the ecosystem. From a *practice-oriented perspective*, the findings point to several actionable strategies for improving Web3 grant programs:

- 1. *Institutionalize Standardization*: Implementing consistent frameworks for reporting, evaluation, and governance will not only improve transparency but also allow for better comparison between programs, enhancing overall accountability.
- 2. Enhance Transparency Mechanisms: Formalizing processes for public updates, reporting, and dispute resolution will help close the transparency gaps currently observed in programs like Arbitrum and Mantle, fostering greater trust from participants and the community.

- 3. *Optimize Community Engagement*: By improving communication strategies and feedback channels, programs can ensure that the community remains actively involved in decision-making processes. This will enhance the legitimacy of decentralized governance models while improving operational efficiency.
- 4. *Incorporate Post-Funding Evaluations*: Introducing regular and structured post-funding evaluations will allow programs to better track the success of funded projects and make data-driven decisions for future funding rounds.
- 5. Address Long-Term Sustainability: Beyond evaluating current maturity, the GMI should be expanded to assess the long-term sustainability of grant programs. This includes analyzing overhead costs and long-term financial planning, which are areas currently under-explored in the index.

In conclusion, the GMI offers a framework for assessing the maturity of Web3 grant programs. Incorporating post-funding evaluations and sustainability assessments will further strengthen the framework and contribute to the effective operation of Web3 grant programs.

#### **About the Researchers**

#### Ben Biedermann

Ben is a published researcher with advanced knowledge on EU cryptocurrency regulation. He is also a domain expert on digital identity and has contributed to one of the first Ethereum-based decentralized identifier (DID) methods. Through his work on digital identity he discovered his excitement for Web3 infrastructure and procurement and joined RaidGuild. After bringing several community staking solutions to production, Ben became part of the MetaGov Grant Innovation Lab and the Consortium Lead of WID3+, researching crypto-economic procurement while reading for a PhD on small-scale digital public infrastructure at the University of Malta.

#### Fahima Gibrel

Feems is a governance and grants specialist in the DAO ecosystem. She co-founded the DAO Governance Collective, serves as a steward for Hats Protocol, and manages the delegate program at Interest Protocol. She is on the Gitcoin Community Council for Community Grants and has worked with several grant programs such as Arbitrum DAO, Polygon, POKT. Feems also advises on grant frameworks and impact assessments. She holds an MSc in Lobbying and Public Affairs, with experience spanning tech, government, and global affairs.

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# A Case Study Comparison – Mantle, Arbitrum

# A.1 Introduction

- *Mantle*: A grant program with centralized governance, managed by the Mantle Foundation, which exercises primary control over decision-making and resource allocation.
- Arbitrum STIP: A decentralized grant program operating under the Arbitrum DAO, with decision-making and funding allocation subject to community votes and on-chain governance.

#### A.2 Governance Structure

- *Mantle*: Governance is centralized, with decisions made primarily by the Mantle Foundation. The community's role in governance is minimal, and decision-makers are appointed internally.
  - Maturity Level: Early-stage governance, with limited decentralization and community input.
- Arbitrum STIP: The governance council is appointed from within the Arbitrum DAO, and funding decisions go through a transparent on-chain voting process where token holders participate.
  - *Maturity Level*: Advanced decentralized governance with on-chain decision-making, strong community involvement in significant decisions.

# A.3 Community Engagement

- *Mantle*: Community engagement is limited, with no formal community voting mechanisms in place for grant selection. The foundation has primary control over the decision-making process.
  - Maturity Level: Limited community participation, with room for growth in engaging stakeholders in decision-making.
- Arbitrum STIP: The community participates actively through voting mechanisms on grant allocation and governance decisions. Token holders have a say in treasury management and project selection.
  - *Maturity Level*: High community engagement with formalized voting structures, showcasing a mature and decentralized model.

# A.4 Transparency

- *Mantle*: Transparency is limited, with decision-making and governance largely occurring behind closed doors. Evaluation criteria and decision rationales are not publicly shared.
  - Maturity Level: Low transparency, with centralized control limiting visibility into governance and funding processes.
- Arbitrum STIP: There is strong transparency in governance, with on-chain votes and public proposals. While the community votes on large decisions, the specifics of individual project evaluations may not always be shared in detail.
  - *Maturity Level*: High transparency in overall governance and funding allocation, with room to improve transparency in individual project evaluations.

#### A.5 Operational Maturity

- Mantle: Mantle's centralized model allows for faster decision-making, but it lacks the community oversight and feedback mechanisms that typically support long-term program sustainability. Resource allocation is efficient, but there's less accountability.
  - Maturity Level: Intermediate maturity due to efficient operations, but lacks decentralized checks and balances
- Arbitrum STIP: The decentralized structure provides a more resilient and transparent operational framework, but decision-making can be slower due to the need for community voting. The process ensures broader input and accountability but requires stronger community management to maintain long-term engagement.

- *Maturity Level*: High maturity in terms of decentralized processes, though it faces challenges in maintaining efficiency with a larger, active community.

#### A.6 Grant Allocation and Management

- *Mantle*: Grants are allocated internally, with the Mantle Foundation controlling decisions. This allows for rapid allocation but may lead to concerns about bias and fairness.
  - *Maturity Level*: Early-stage maturity, with efficient resource allocation but limited transparency and fairness concerns due to centralization.
- Arbitrum STIP: Grant allocation is conducted through a transparent process, with community votes on project proposals. The STIP process ensures accountability and broad participation but may be slower due to the need for consensus.
  - *Maturity Level*: High maturity in terms of transparency and fairness, though speed and efficiency are potential trade-offs.

# A.7 Key Learnings from the Case Studies

- *Mantle*: Centralized control allows for faster decisions but limits community involvement and transparency. This model can be efficient but may not align with the ethos of decentralized ecosystems.
- Arbitrum STIP: The decentralized model fosters community trust and transparency but requires well-structured processes to maintain efficiency and engagement. Its mature governance ensures inclusivity but comes with the challenge of slower decision-making.

#### A.8 Conclusion and Comparative Maturity Insights

- *Mantle* is at an earlier stage of maturity, focusing on operational efficiency at the expense of decentralization and community engagement.
- Arbitrum STIP represents a more mature, decentralized model, offering greater transparency and community involvement but facing challenges in maintaining decision-making speed and operational efficiency.

#### A.9 Recommendations for Future Development

- *Mantle*: Increase community engagement through voting mechanisms and improve transparency in governance and grant allocation to move towards a more mature, decentralized model.
- Arbitrum STIP: Streamline decision-making processes without sacrificing transparency, ensuring that governance mechanisms can sustain both community participation and operational efficiency.

#### **Indicators and Rubric Scores** В

ID	Description	Data Type	Unit
FAO-QN	Focus Areas and Objectives	synthetic	n.a.
FAO-QL	Rubric Scoring Focus Areas and Objectives	numeric	scoring
FAO-QN-2	Minimum Grant Size	numeric	USD
FAO-QN-3	Maximum Grant Size	numeric	USD
FAO-QN-6	Evaluation Timeframe	numeric	weeks
FAO-QN-7	Grant Platform	string	n.a.
FAO-QN-8	Link to Grant Round(s)	string	n.a.
FAO-QN-9	Grant types	numeric	scoring
FAO-QN-10	Funding Type	numeric	scoring
PSO-QN	Program Structure and Organisation	synthetic	n.a.
PSO-QL	Rubric Scoring Program Structure and Organisation	numeric	scoring
PSO-QN-1	Origin of Funds	numeric	scoring
PSO-QN-2	Vesting Period for Fund Allocation	binary	scoring
PSO-QN-3	Organizational Structure of Grantor	numeric	scoring
PSO-QN-4	Grant Program Principal	numeric	scoring
PSO-QN-5	Grant Program Agents	numeric	signatories
PSO-QN-6	Governance Structure	string	n.a.
GOV-QN	Governance	synthetic	n.a.
QOV-QL	Rubric Scoring Governance	numeric	scoring
QOV-QN-1	Grant Program Objective	numeric	scoring
QOV-QN-3	Existence of Program Objective Description	numeric	scoring
QOV-QN-4	Link to Program Objective	string	n.a.
EFI-QN	Effectiveness and Impact	synthetic	n.a.
EFI-QL	Rubric Scoring Effectiveness and Impact	numeric	scoring
EFI-QN-1	Evaluation Criteria Public	binary	scoring
EFI-QN-2	Evaluation Shared with Applicants	binary	scoring
EFI-QN-3	Reference to Evaluation Criteria	string	n.a.
EFI-QN-4	Grant process explained	binary	scoring
EFI-QN-6	Domicile Foundation	ISO Alpha-3	n.a.
EFI-QN-8	Program Audit	numeric	scoring
TAC-QN	Transparency and Accountability	synthetic	n.a.
TAC-QL	Rubric Scoring Transparency and Accountability	numeric	scoring
TAC-QN-4	Average Application to Allocation share	rational number	conversion rate
TAC-QN-5	Operated by a Service Provider	binary	scoring
TAC-QN-6	Program Manager to Applicant Ratio	rational number	conversion rate
COM-QN	Community Engagement	synthetic	n.a.
COM-QL	Rubric Scoring Community Engagement	numeric	scoring
COM-QN-1	Minimum Applicant Count per Round	numeric	headcount
COM-QN-2	Maximum Applicant Count per Round	numeric	headcount
COM-QN-4	Minimum Number of Grants Allocated per Round	numeric	grant count
COM-QN-5	Maximum Number of Grants Allocated per Round	numeric	grant count
COM-QN-7	Minimum Grant Duration	numeric	weeks
COM-QN-8	Maximum Grant Duration	numeric	weeks
COM-QN-11	Time of Existence	rational number	years
COM-QN-12	Round Count since Inception	numeric	rounds
COM-QN-13	Number of Tracks per Round	numeric	tracks
COM-QN-14	Overall Budget since Inception	rational number	USD
COM-QN-19	Operations Budget per Round	rational number	USD
COM-QN-20	Operations Budget to Round Budget Ratio	rational number	ratio
COM-QN-21	Program Management Team Size	numeric	headcount
COM-QN-22	Impact Measurement	numeric	scoring
COM-QN-23	Grant Size Standardisation	binary	scoring
2 2 4 20	Table 3: Indicators and Rubric Sco		9

# C Abridged GMI Quantitative Scoring Results

Indicator	Description	Taiko	Mantle	Arbitrum	Optimism
Minimum Applicant Count per	Measures the smallest number of applicants in a round,	118,300	16,000	98	15
Round	indicating the base level of program outreach. Lower numbers suggest limited awareness or accessibility.				
Maximum Applicant Count per	Tracks the highest number of applicants, reflecting	232,600	27,000	124	46
Round	program popularity and reach. High numbers suggest				
Average Applicant Count per	broad appeal and effective outreach.  Provides a balanced view of the program's applicant	n.a.	n.a.	111	30.5
Round	base across multiple rounds, helping assess consistency	II.a.	II.a.	111	30.5
	in engagement.				
Minimum Number of Grants Al-	Indicates the smallest number of grants given per	9	10	26	n.a.
located per Round	round, showing how selective the program is in award- ing funding.				
Maximum Number of Grants Al-	Shows the upper limit of funding allocations, indicating	238	35	29	n.a.
located per Round	how much the program can or chooses to distribute in a single round.				
Average Number of Grants Allo-	Offers insight into the typical number of grants dis-	n.a.	n.a.	42	n.a.
cated per Round	tributed, reflecting the scale of the program.				
Minimum Grant Duration (in	Measures the shortest grant period, indicating the	4	4	3	7.9 weeks
months) Maximum Grant Duration (in	speed at which funding is disbursed and utilized.  Captures the longest duration of grants, showing how	6	6	4	18 weeks
months)	long projects can take to complete.				10 110010
Average Grant Duration (in	Reflects the typical duration of funded projects, pro-	6	6	4	18 weeks
months) Existence in years	viding insights into project timelines.  Indicates how long the grant program has been run-	1 year	n.a.	<1 year	1.5 years
Existence in years	ning, providing context on maturity and experience.	1 year	ii.a.	\1 ycai	1.5 years
Round Count since Inception	Measures the number of rounds completed since the	15	2	2 (STIP & Backfund)	n.a.
Overall Budget since Inception	program started, offering a sense of activity level.  The total amount of funding allocated since the pro-	\$276m	\$100m	71.4M ARB	6.5M
Overall Budget since meeption	gram's launch, reflecting its financial scale.	\$270III	\$100III	71.4W AND	0.5101
Minimum Grant Size	Shows the smallest grant amount provided, indicating	\$5,000	\$5,000	38,000 ARB	<50K OP
Maximum Grant Size	the baseline support offered to projects.  Reflects the largest grant provided, showcasing the	\$276m	\$25,000	12m ARB	250K OP
Waximum Grant Size	program's ability to fund bigger projects.	\$270111	\$23,000	12III AIND	25011 01
Average Grant Size	Provides the average amount of funding per grant,	n.a.	\$823,077 ARB	823,077 ARB	99,877 OP
Evaluation Timeframe (in	helping to assess typical project funding.  Time allocated for evaluating applications, offering	4	4	2	4
weeks)	insight into the program's efficiency.	7	-		
Organizational Structure of	Describes the governing body responsible for adminis-	DAO + Foundation	British Virgin Islands	DAO + Foundation	OP Foundation
Grantor Governance Structure	tering the grants (e.g., DAO, Foundation).  Evaluates the decision-making process, focusing on	1 (Principal allocates)	(Foundation) 1 (Principal allocates)	1 (Principal allocates)	1 (Principal allocates)
	who allocates funds and approves grants.	, , ,	, , ,		, , ,
Grant Size Standardisation	Determines if grants are standardized in size, ensuring uniformity in funding allocations.	0	1	0	1
Grant Types	Identifies the type of grants awarded, helping assess	2 (milestones)	2 (milestones)	2 (milestones)	2 (milestones)
	flexibility and risk management.				
Funding Type (simplified)	Specifies the currency or asset used in funding, re-	Native Token	Native Token	Native Token	Native Token
* * *					
. ,	flecting the program's financial strategy (e.g., Native Token, Stablecoin).				
Market capitalisation of funding	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using	\$3.2B	\$121M	\$3.2B	\$2.6B
Market capitalisation of funding asset at round start	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.	\$3.2B			
Market capitalisation of funding	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.		\$121M	\$3.2B	\$2.6B
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No. 1 Yes) Evaluation Shared with Appli-	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the cri-	\$3.2B			
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes)	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.	\$3.2B 1	0	0	1
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No. 1 Yes) Evaluation Shared with Appli-	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.	\$3.2B	0	1	1
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained Average Application to Alloca-	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the	\$3.2B 1	0	0	1
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Appli- cants (0 No, 1 Yes) Grant process explained	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program com-	\$3.2B 1 0	0	0	1 1
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained Average Application to Alloca-	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by com-	\$3.2B 1 0	0	0	1 1
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained Average Application to Allocation share  Program Manager to Applicant Ratio	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.	\$3.2B 1 0 1 0.000721 n.a.	1 0 1 0.0016875	1 0 1 1.644	1 1 tbc n.a.
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained Average Application to Allocation share Program Manager to Applicant	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.  The amount of funding set aside for operations per	\$3.2B 1 0 1 0.000721	1 0 1 0.0016875	1 0 1 1.644	1 1 tbc
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained Average Application to Allocation share  Program Manager to Applicant Ratio	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.  The amount of funding set aside for operations per round, showing the efficiency of fund management.  Tracks how project success is measured, indicating	\$3.2B 1 0 1 0.000721 n.a.	1 0 1 0.0016875	1 0 1 1.644	1 1 tbc n.a.
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained  Average Application to Allocation share  Program Manager to Applicant Ratio Operations Budget per Round  Impact Measurement	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.  The amount of funding set aside for operations per round, showing the efficiency of fund management.  Tracks how project success is measured, indicating the program's focus on outcomes.	\$3.2B 1 0 1 0.000721 n.a. \$156,000,000	1 0 1 0.0016875 n.a. \$21,000,000	1 0 1 1.644 1:28 114,000 ARB	1 1 1 tbc n.a. 440k OP 2
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained Average Application to Allocation share Program Manager to Applicant Ratio Operations Budget per Round	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.  The amount of funding set aside for operations per round, showing the efficiency of fund management.  Tracks how project success is measured, indicating	\$3.2B 1 0 1 0.000721 n.a. \$156,000,000	1 0 1 0.0016875 n.a. \$21,000,000	1 0 1 1.644 1:28 114,000 ARB	1 1 1 tbc n.a. 440k OP
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Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No. 1 Yes) Evaluation Shared with Applicants (0 No. 1 Yes) Grant process explained Average Application to Allocation share Program Manager to Applicant Ratio Operations Budget per Round Impact Measurement Origin of Funds Vesting Period for Fund Allocation	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.  The amount of funding set aside for operations per round, showing the efficiency of fund management.  Tracks how project success is measured, indicating the program's focus on outcomes.  Identifies the source of funding, showing the program's financial foundation.  Determines if funds are released over time, showing how risk and reward are managed.	\$3.2B  1  0  1  0.000721  n.a.  \$156,000,000  1  1 (DAO Treasury)  No	1 0 0 1 0.0016875 n.a. \$21,000,000 1 1 (DAO Treasury) No	1	1
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Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained  Average Application to Allocation share  Program Manager to Applicant Ratio Operations Budget per Round  Impact Measurement  Origin of Funds  Vesting Period for Fund Allocation Organizational Structure of	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.  The amount of funding set aside for operations per round, showing the efficiency of fund management.  Tracks how project success is measured, indicating the program's focus on outcomes.  Identifies the source of funding, showing the program's financial foundation.  Determines if funds are released over time, showing how risk and reward are managed.  Describes how the grantor is structured, indicating levels of oversight and accountability.  Clarifies the form of funding used, helping assess sta-	\$3.2B  1  0  1  0.000721  n.a.  \$156,000,000  1  1 (DAO Treasury)  No	1 0 0 1 0.0016875 n.a. \$21,000,000 1 1 (DAO Treasury) No	1	1 1 1 tbc  n.a.  440k OP 2 0 (Token Launch) No Optimism Founda-
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained  Average Application to Allocation share  Program Manager to Applicant Ratio Operations Budget per Round  Impact Measurement  Origin of Funds  Vesting Period for Fund Allocation Organizational Structure of Grantor Funding Type	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.  The amount of funding set aside for operations per round, showing the efficiency of fund management.  Tracks how project success is measured, indicating the program's focus on outcomes.  Identifies the source of funding, showing the program's financial foundation.  Determines if funds are released over time, showing how risk and reward are managed.  Describes how the grantor is structured, indicating levels of oversight and accountability.  Clarifies the form of funding used, helping assess stability and flexibility.	\$3.2B  1  0  1  0.000721  n.a.  \$156,000,000  1  1 (DAO Treasury)  No  DAO + Foundation  1 (Native Token)	1 0 1 0.0016875  n.a. \$21,000,000 1 1 (DAO Treasury) No DAO + Foundation 1 (Native Token)	1  1 1.644  1:28  114,000 ARB  1 1 (DAO Treasury)  No  DAO + Foundation  1 (Native Token)	1 1 1 tbc  n.a.  440k OP 2 0 (Token Launch) No Optimism Foundation 1 (Native Token)
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Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained  Average Application to Allocation share  Program Manager to Applicant Ratio Operations Budget per Round  Impact Measurement  Origin of Funds  Vesting Period for Fund Allocation Organizational Structure of Grantor Funding Type  Market capitalisation of funding asset at round start Grant Program Objective	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.  The amount of funding set aside for operations per round, showing the efficiency of fund management.  Tracks how project success is measured, indicating the program's focus on outcomes.  Identifies the source of funding, showing the program's financial foundation.  Determines if funds are released over time, showing how risk and reward are managed.  Describes how the grantor is structured, indicating levels of oversight and accountability.  Clarifies the form of funding used, helping assess stability and flexibility.  Tracks the market value of the funding asset (if using tokens), showing financial capacity.  Identifies the primary focus of the program, whether for token growth, profit, or philanthropy.  Provides a link to the program's objective, ensuring transparency and accountability.	\$3.2B  1  0  1  0.000721  n.a.  \$156,000,000  1  1 (DAO Treasury)  No  DAO + Foundation  1 (Native Token)  \$3.2B  1 (Token and network growth)	1 0 1 0.0016875  n.a. \$21,000,000 1 1 (DAO Treasury) No DAO + Foundation 1 (Native Token) \$121M  1 (Token and network growth)	1  1 1.644  1:28  114,000 ARB  1 1 (DAO Treasury)  No  DAO + Foundation  1 (Native Token)  \$3.2B  1 (Token and network growth)	1 1 1 tbc  n.a.  440k OP 2 0 (Token Launch) No Optimism Foundation 1 (Native Token) \$2.6B 1 (Token and network growth) Link Cayman Islands Foun-
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Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained Average Application to Allocation share Program Manager to Applicant Ratio Operations Budget per Round Impact Measurement Origin of Funds Vesting Period for Fund Allocation Organizational Structure of Grantor Funding Type  Market capitalisation of funding asset at round start Grant Program Objective Link to Program Objective  Domicile Foundation	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.  The amount of funding set aside for operations per round, showing the efficiency of fund management.  Tracks how project success is measured, indicating the program's focus on outcomes.  Identifies the source of funding, showing the program's financial foundation.  Determines if funds are released over time, showing how risk and reward are managed.  Describes how the grantor is structured, indicating levels of oversight and accountability.  Clarifies the form of funding used, helping assess stability and flexibility.  Tracks the market value of the funding asset (if using tokens), showing financial capacity.  Identifies the primary focus of the program, whether for token growth, profit, or philanthropy.  Provides a link to the program's objective, ensuring transparency and accountability.  Indicates the jurisdiction of the foundation, showing the legal framework for operations.  Identifies the main entity responsible for running the program.	\$3.2B  1  0  1  0.000721  n.a.  \$156,000,000  1  1 (DAO Treasury)  No  DAO + Foundation  1 (Native Token)  \$3.2B  1 (Token and network growth)  Link  Cayman Islands  DAO  7 (tnorm and 6 sign-	1 0 1 0.0016875  n.a. \$21,000,000 1 1 (DAO Treasury) No DAO + Foundation 1 (Native Token) \$121M 1 (Token and network growth) Link British Virgin Islands DAO 7 (tnorm and 6 sign-	1 1 1.644 1:28 114,000 ARB 1 1 (DAO Treasury) No DAO + Foundation 1 (Native Token) \$3.2B 1 (Token and network growth) Link Cayman Islands DAO 7 (tnorm and 6 sign-	1 1 1 1 tbc  n.a. 440k OP 2 0 (Token Launch) No Optimism Foundation 1 (Native Token) \$2.6B 1 (Token and network growth) Link Cayman Islands Foundation Optimism Founda-
Market capitalisation of funding asset at round start Evaluation Criteria Public (0 No, 1 Yes) Evaluation Shared with Applicants (0 No, 1 Yes) Grant process explained Average Application to Allocation share Program Manager to Applicant Ratio Operations Budget per Round Impact Measurement Origin of Funds Vesting Period for Fund Allocation Organizational Structure of Grantor Funding Type Market capitalisation of funding asset at round start Grant Program Objective Domicile Foundation Grant Program Principal	flecting the program's financial strategy (e.g., Native Token, Stablecoin).  Tracks the market value of the funding asset (if using tokens), showing the financial capacity.  Measures whether evaluation criteria are made public, promoting transparency.  Indicates whether applicants are informed of the criteria, enhancing trust in the process.  Shows if the grant application process is clearly explained, ensuring accessibility and fairness.  Compares the number of applications received to the number of grants awarded, indicating program competitiveness.  Assesses the workload of program managers by comparing the number of applicants per manager.  The amount of funding set aside for operations per round, showing the efficiency of fund management.  Tracks how project success is measured, indicating the program's focus on outcomes.  Identifies the source of funding, showing the program's financial foundation.  Determines if funds are released over time, showing how risk and reward are managed.  Describes how the grantor is structured, indicating levels of oversight and accountability.  Clarifies the form of funding used, helping assess stability and flexibility.  Tracks the market value of the funding asset (if using tokens), showing financial capacity.  Identifies the primary focus of the program, whether for token growth, profit, or philanthropy.  Provides a link to the program's objective, ensuring transparency and accountability.  Indicates the jurisdiction of the foundation, showing the legal framework for operations.  Identifies the main entity responsible for running the program.	\$3.2B  1  0  1  0.000721  n.a.  \$156,000,000  1  1 (DAO Treasury)  No  DAO + Foundation  1 (Native Token)  \$3.2B  1 (Token and network growth)  Link  Cayman Islands  DAO	1 0 1 0.0016875  n.a. \$21,000,000 1 1 (DAO Treasury) No DAO + Foundation 1 (Native Token) \$121M 1 (Token and network growth) Link British Virgin Islands DAO	1 1 1.644 1:28 114,000 ARB 1 1 (DAO Treasury) No DAO + Foundation 1 (Native Token) \$3.2B 1 (Token and network growth) Link Cayman Islands DAO	1 1 1 tbc  n.a.  440k OP 2 0 (Token Launch) No Optimism Foundation 1 (Native Token) \$2.6B 1 (Token and network growth) Link Cayman Islands Foundation Optimism Foundation

decision-making process.

Table 4: Abridged GMI Quantitative Scoring Results