Kusama - Treasury Proposal Audit

KUSAMA

Funded by: <u>OpenGovernance Proposal #67</u>

Auditor: **CoinStudio**

GRADE:

| 0 | Meets Criteria |

Project name:	**Ziggurat Network Testing Framework**
Proponent:	**Equilibrium**
Proposal URL:	**https://kusama.polkassembly.io/post/2570**
Audit date:	**10/05/2023**
Requested funding	**2700 KSM**
KSM/USD:	**70500 USD**

Kusama Treasury status:	302430 KSM
Requested % of Treasury :	0.89%

Grade Criteria Legend

Excellent	>=15
Above Average	>5
Meets Criteria	>-5
Needs Improvement	>-15
Unacceptable	<=-15

Score Criteria Legend
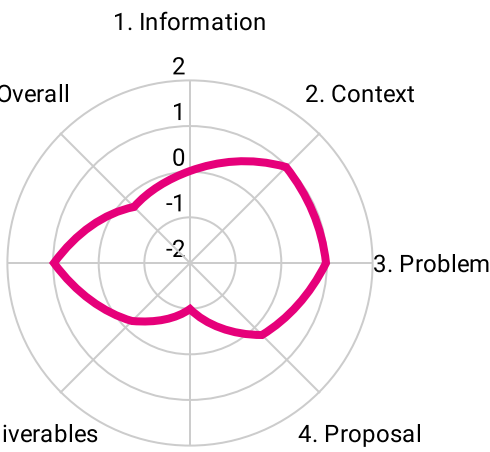
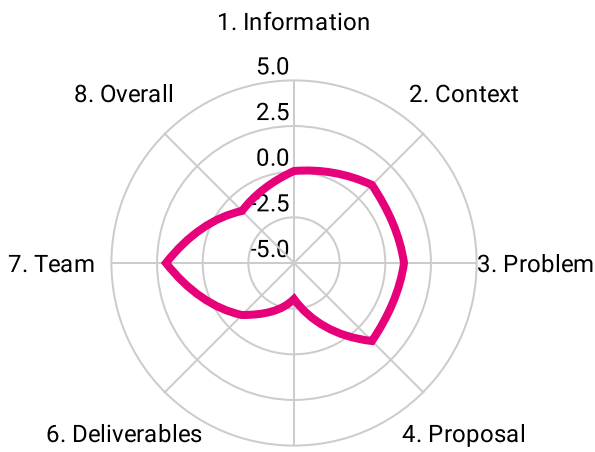| Excellent | 2 |
Above Average	1
Meets Criteria	0
Needs Improvement	-1
Unacceptable	-2

Average Score per Category

Total Score per Category

General Comments:	The proposal outlines the development and implementation of Ziggurat for the Kusama network, with potential compatibility with other Substrate-based chains. The primary goal is to identify critical bugs, performance bottlenecks, and security flaws in the network implementation, enabling developers to address these issues and strengthen the network. Most the proposed improvements aim to make this technical project more understandable for general community and Kusama OpenGov.

Description	2	1	0	-1	-2	Comments *(explain reasons why score differs from default score 0)*
1. Information						
1.1 Project description and category, requested allocation and referenda origin call clear and accurate.	☐	☐	☑	☐	☐	All relevant data included.
1.2 Discussion topic open for a minimum period of one week. All the questions and concerns addressed and answered.	☐	☐	☑	☐	☐	Ongoing
Score			0			
2. Context						
2.1 Project context and background presented in a clear terms which can be fully understood and assessed.	☐	☑	☐	☐	☐	The project context and background are presented clearly. The proposal provides information about the project origin and its application on other networks.
Score		1				
3. Problem						
3.1 The problem the proposal is trying to solve is explained in a clean and concise terms.	☐	☑	☐	☐	☐	The problem statement is clear and concise, mentioning the potential for network-level hacks, the importance of addressing networking issues, and the need for effective network testing tools like Ziggurat.
Score		1				
4. Proposal						
4.1 Proposal solution is described with a sufficient amount of information.	☐	☑	☐	☐	☐	The proposal solution is described with enough information, detailing Ziggurat purpose, benefits, and how it tests network implementations.
4.2 Similar projects or proposals listed and explained how they differ from this proposal	☐	☑	☐	☐	☐	Several similar tools are mentioned and most of the them are either deprecated or abandoned.
4.3 Milestones to achieve the goals of the project are clearly defined.	☐	☐	☐	☑	☐	It is recommended to improve the milestones and deliverables with additional descriptions. This will help improve understanding for less technical members of the community
4.4 Milestones are split into the smaller detailed work tasks with deliverables, resources and description.	☐	☑	☐	☐	☐	Milestones are split into smaller detailed tasks with deliverables, resources, and descriptions, providing a comprehensive overview of the work involved.
4.5 Timeline with tasks/activities listed in a chronological order is clear and accurate.	☐	☐	☐	☑	☐	The project proposal currently provides a general timeline along with the estimated work hours for each milestone and deliverable. While this gives a rough idea of the project's schedule, it is recommended to include a more detailed timeline. By doing so, the community and stakeholders can better understand the project's progression and make it easier to track the project's progress over time.
Score		1				
5. Budget						
5.1 Budget is clear and transparent and broken down into direct cost categories.	☐	☐	☐	☑	☐	Recommend to provide a detailed budget breakdown that includes direct cost categories to improve transparency and allow the community to better assess the proposal's financial requirements.
5.2 Budget costs are comparable to the similar treasury proposals.	☐	☐	☐	☑	☐	The current budget section in the project proposal provides an estimated cost for each milestone and deliverable. In order to better evaluate the proposed budget and ensure transparency, we recommend including the work hours and proposed hourly rates for the individuals working on specific tasks within each milestone and deliverable.
5.3 Final payment calculations and conditions are in line with proposed milestones.	☐	☐	☐	☑	☐	Not provided at this stage. For the final payment it is recommended to provide calculations sing the current rates that will be adjusted on the day of onchain submission. The common practise is to calculate KSM funding amount using EMA7.
Score			-3			
6. Deliverables						
6.1 Key deliverables are clear and outline progress towards the proposed solution.	☐	☐	☑	☐	☐	While the current project proposal outlines the deliverables in relation to the project milestones, we recommend presenting a consolidated list of final deliverables separately. This will make it more understandable and accessible for the wider community, and help community gain a clear overview of the project outcomes.
6.2 Project objectives/success criteria is clearly defined with measurable targets where possible.	☐	☐	☐	☑	☐	The project objectives and success criteria are recommended for a proposal, and it is important to have measurable targets whenever possible. It would be beneficial to define specific targets, i.e. for SDK and developer tools, it should show a target number of contributors/forks/watchers of the project. To add to the David comment on PA, the success would be to have some of the mentioned teams actively using Ziggurat "...the current project scope mentions only Web3 Foundation and Parity. However, other teams are working on host implementation (see https://spec.polkadot.network/ like Chainsafe, Soramitsu, or Smoldot). So my recommendation would be to include them as well."
6.3 Awareness of known conditions that may affect the project schedule, milestones, determined budget or project timeline.	☐	☐	☑	☐	☐	
6.4 Reporting process is defined to inform the community about the progress and current status of the project.	☐	☐	☑	☐	☐	While interactions with users and developers are defined through Github actions, we recommend specifying channels and timelines for reporting project progress to the community.
6.5 Clear communication strategy - where, when, what and who is going to present the information to the community and other relevant parties.	☐	☐	☑	☐	☐	
Score			-1			
7. Team						
7.1 Team members that will actively work on the project are introduced with all relevant information.	☐	☑	☐	☐	☐	Team members introduced with all relevant information.
7.2 Reputation from previous involvements in the Kusama/Polkadot grants/bounties/tasks/treasury proposals.	☐	☑	☐	☐	☐	Although the proposal mentions that Equilibrium has delivered several ecosystem grants and worked with established clients, it would be beneficial to provide a list of these delivered projects especially ones directly related to this proposal like C++ light client implementation research.
Score		2				
8. Overall						
8.1 General quality of the proposal content (i.e. can you make an educated opinion on the proposal in less than 5 minutes?)	☐	☐	☑	☐	☐	
8.2 How important and valuable is the presented problem and proposal solution to the ecosystem.	☐	☐	☐	☑	☐	It would be benefitial to relate to the feedback provided by Davis on PA by relating to the similar W3F grant and provide some explanation which part of the project is fitting the area: "The proposal also partly fits the following RFP that was recently published: "The proposal also partly fits the following RFP that was recently published: https://github.com/w3f/Grants-Program/blob/master/docs/RFPs/Open/polkadot-protocol_conformance_tests.md
8.3 Promised work on defined budget presents a good ROI for community.	☐	☐	☑	☐	☐	
8.4 Other remarks	☐	☐	☑	☐	☐	
Score			-1			