Med may actually be best, Protocol Guild got underfunded as did my project so this is against my interests vs using av, but its done really well for other bs/garbage/scams. brings up a few smaller projects but think this was cause of lists and apathy.

The Paradox of Funding in RPGF: A Look at Vote Patterns and Impact Assessment

Introduction

The Retroactive Public Goods Funding (RPGF) initiative by Optimism aimed to reward projects based on their impact, with the community voting on the allocation of tokens to various contributors. However, an analysis of voting patterns reveals a concerning trend: the distribution of funds may not be as impact-focused as intended.

Standardized Allocations and the Illusion of Impact

An examination of the most common vote amounts – 50,000 and 100,000 – indicates a standardized approach to voting. This raises the question: Are these allocations truly reflective of each project's individual impact, or are they the result of voters following a predetermined script?

For instance, the top two most common allocations were 50,000 (1737 votes) and 100,000 (1652 votes), with other standard amounts such as 10,000 and 25,000 following suit. A closer look at the data suggests a large number of projects received similar funding, not because of a measured impact but likely due to the influence of lists, which aggregated suggested funding amounts for badgeholders (voters) to follow.

The Influence of Lists and Voter Apathy

Lists are meant to guide badgeholders in their voting, but they seem to have led to a uniformity that undermines the principle of impact-based funding. The phenomenon of badgeholders advertising themselves on social media and the fact that around 30% of the top 100 projects all received the same allocation points to a systemic issue within the RPGF mechanics.

Top 100
[
1b3d1aa0-c45d-497e-99e3-56753bc4e532
3259×2180 449 KB
](https://global.discourse-cdn.com/business7/uploads/bc41dd/original/2X/f/f667b8a5946660dc4afe0279334107851cafc506.png)
Bottom 100
[
b2eabb56-d1e0-40d5-9910-77ecfa8d5df8
1920×1382 154 KB
](https://global.discourse-cdn.com/business7/uploads/bc41dd/original/2X/5/59631e0c2d7e916a259d471f389fc4c85e866e44.jpeg)

The reliance on lists has perhaps inadvertently caused voter apathy, where badgeholders vote for as many projects as possible, often without due diligence, simply to meet the voting threshold. This method of voting could be seen as an attempt to fulfill the quorum rather than a genuine effort to evaluate the merit and impact of each project.

```
Vote dist
[
ed14ba60-d088-425d-a853-bdb6d81bb4c6

1686×1101 46.3 KB
](https://global.discourse-cdn.com/business7/uploads/bc41dd/original/2X/0/06e424bb45da0c089f556b7cb160f28a4bbaac90.png)
Top 10
```

73b75ae2-8a2a-40ba-8167-5ef245b98830

2979×3980 385 KB

](https://global.discourse-

cdn.com/business7/uploads/bc41dd/original/2X/e/e479c8dc9a47ca428e86007a9cd54681be1e274a.png)

every 50th

ſ

1dcefdd3-ab41-45aa-b9a6-ebbc5eff4cec

1920×5666 332 KB

](https://global.discourse-

cdn.com/business7/uploads/bc41dd/original/2X/3/3d4f274a5cb5bcdc8544110e37fabaf33431f055.jpeg)

The Homogeneity of Funding

An analysis of vote distributions shows that a significant proportion of the top 100 projects received similar funding amounts. This homogeneity suggests that badgeholders (voters within the RPGF) may not be individually assessing the impact of projects. While intended to streamline the process and provide expertise, lists may have resulted in a form of 'voter apathy'—where badgeholders vote uniformly across many projects, influenced by the collective rather than personal judgment. The badgeholder problem is highlighted by the lack of differentiation in funding—can it be that an overwhelming number of projects all deserved exactly 100,000 in impact value? Or is this a reflection of a list-based voting mechanism that oversimplifies the complexities of project impact?

** The Median Trap and the Push for Quantity**

The RPGF voting structure uses median values to determine final funding amounts, which could lead to a clustering of votes around central figures. This 'median trap' means projects tend to receive an amount close to the middle of the distribution, irrespective of their actual impact. Combined with a voting threshold that compels badgeholders to vote on as many projects as possible, this system may dilute the quality of funding decisions, rewarding mediocrity while penalizing standout initiatives.

Median Versus Average Funding: The Metrics of Misalignment

The debate between using median or average funding as a more accurate measure of project impact is complex. While the average might seem a fairer assessment, it can be skewed by outliers. The median, on the other hand, could underrepresent projects that require more substantial funding to achieve their impact. Notably, high-impact projects like Protocol Guild received less than their due, while other less impactful projects were overfunded.

Proposals for a Fairer Funding Model

To align funding with impact, several changes to the RPGF voting process are recommended:

Implement tiered limits for funding allocations, ensuring a more nuanced distribution with smaller med threshold.

10k requires 5/20 ballots

50k requires 10/20 ballots

200k requires 15/20 ballots

- Assign a specific number of badgeholders to evaluate a select group of projects, rating their impact on a scale from 0 to 100.
- Average out the impact scores among the assigned badgeholders to mitigate extremes.
- Introduce public commentary on proposals, increasing transparency and community involvement.
- Adjust ballot requirements based on funding tiers to ensure a more rigorous assessment for higher allocations.

ethereum-optimism/op-analytics/blob/main/rpgf/rpgf3/results/anonymized_project_votes.csv

My data

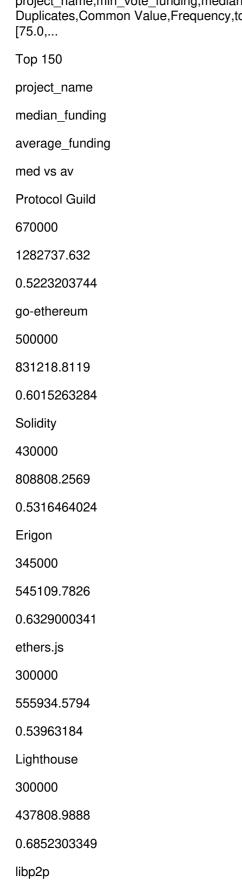
docs.google.com

](https://docs.google.com/spreadsheets/d/12cwZjabYooc6F7Pwy_BSROq9egz_15aXsNJPoTsN2Bc/edit#gid=1784919944)

full_project_statistics

full_project_statistics

project_name,min_vote_funding,median_funding,average_funding,max_vote_funding,med vs av,raw,high max,Total Duplicates,Common Value,Frequency,top 100,med,av Protocol Guild,75,670000,1282737.632,5000000,0.5223203744, [75.0,...



300000

413224.7059

| 0.7259972498 |
|--------------------------------|
| Hardhat |
| 290000 |
| 494267.3267 |
| 0.5867270287 |
| Test in Prod |
| 275000 |
| 489542.8571 |
| 0.5617485701 |
| ETHGlobal |
| 260000 |
| 615601.1111 |
| 0.4223514144 |
| DefiLlama |
| 250000 |
| 518453.7634 |
| 0.482203077 |
| Account Abstraction - ERC-4337 |
| 250000 |
| 503835.2941 |
| 0.4961939009 |
| Vyper |
| 250000 |
| 447062.8866 |
| 0.559205444 |
| OpenZeppelin Contracts |
| 250000 |
| 405774.1935 |
| 0.6161062088 |
| Remix Project |
| 250000 |
| 403500 |
| 0.6195786865 |
| Nethermind |
| 250000 |
| 400820.5128 |
| 0.6237205732 |
| |

| Lodestar |
|--|
| 250000 |
| 380001.1905 |
| 0.6578926758 |
| Web3js |
| 250000 |
| 343945.5556 |
| 0.7268592251 |
| Dappnode |
| 250000 |
| 340611.4943 |
| 0.7339740561 |
| BuidlGuidl |
| 235000 |
| 540795.4545 |
| 0.4345450725 |
| Ethereum Attestation Service |
| 230000 |
| 431655.914 |
| 0.5328318055 |
| |
| IPFS |
| IPFS 230000 |
| |
| 230000 |
| 230000 394157.1429 |
| 230000 394157.1429 0.5835236128 |
| 230000 394157.1429 0.5835236128 beaconcha.in |
| 230000 394157.1429 0.5835236128 beaconcha.in 225000 |
| 230000 394157.1429 0.5835236128 beaconcha.in 225000 364861.7021 |
| 230000 394157.1429 0.5835236128 beaconcha.in 225000 364861.7021 0.6166720121 |
| 230000 394157.1429 0.5835236128 beaconcha.in 225000 364861.7021 0.6166720121 Agora |
| 230000 394157.1429 0.5835236128 beaconcha.in 225000 364861.7021 0.6166720121 Agora 215000 |
| 230000 394157.1429 0.5835236128 beaconcha.in 225000 364861.7021 0.6166720121 Agora 215000 386375 |
| 230000 394157.1429 0.5835236128 beaconcha.in 225000 364861.7021 0.6166720121 Agora 215000 386375 0.5564542219 |
| 230000 394157.1429 0.5835236128 beaconcha.in 225000 364861.7021 0.6166720121 Agora 215000 386375 0.5564542219 Lattice (OPCraft & MUD) |
| 230000 394157.1429 0.5835236128 beaconcha.in 225000 364861.7021 0.6166720121 Agora 215000 386375 0.5564542219 Lattice (OPCraft & MUD) 200000 |
| 230000 394157.1429 0.5835236128 beaconcha.in 225000 364861.7021 0.6166720121 Agora 215000 386375 0.5564542219 Lattice (OPCraft & MUD) 200000 522633.8235 |

| 200000 |
|---------------------------|
| 495778.7879 |
| 0.4034057222 |
| Wagmi / Viem |
| 200000 |
| 481921.5909 |
| 0.4150052701 |
| foundry |
| 200000 |
| 459651.8072 |
| 0.4351119627 |
| Blockscout Block Explorer |
| 200000 |
| 406162.069 |
| 0.4924142732 |
| Sourcify |
| 200000 |
| 376950.6494 |
| 0.5305734327 |
| Nimbus |
| 200000 |
| 347515.625 |
| 0.5755136909 |
| revm |
| 200000 |
| 339185.3933 |
| 0.5896480331 |
| Snapshot |
| 200000 |
| 276858.4416 |
| 0.7223908322 |
| Gitcoin |
| 180000 |
| 369897.4359 |
| 0.4866213781 |
| Otterscan |
| 180000 |
| |

| 309273.7374 |
|--------------------------------|
| 0.5820086811 |
| ZachXBT |
| 155000 |
| 314391.6667 |
| 0.4930156122 |
| rotki |
| 150000 |
| 347420.4301 |
| 0.4317535384 |
| Giveth |
| 150000 |
| 263457.6923 |
| 0.5693513774 |
| OP Reth |
| 150000 |
| 260092.3077 |
| 0.5767183249 |
| Revoke.cash |
| 150000 |
| 243377.7778 |
| 0.6163257852 |
| Mirror |
| 140000 |
| 222479.4521 |
| 0.6292715966 |
| TrueBlocks / Unchained Index |
| 140000 |
| 214287.1429 |
| 0.6533289778 |
| Ethereum on ARM |
| 135000 |
| 221558.3333 |
| 0.6093203445 |
| Department of Decentralization |
| 130000 |
| 324887.0968 |
| |

| 0.4001390061 |
|----------------------|
| Immunefi |
| 130000 |
| 270303.7736 |
| 0.4809403815 |
| Ethereum Cat Herders |
| 130000 |
| 258134.6667 |
| 0.5036131012 |
| Frame |
| 130000 |
| 226646.8354 |
| 0.5735795946 |
| TypeChain / DethCode |
| 130000 |
| 190620 |
| 0.6819851012 |
| Open Source Observer |
| 130000 |
| 167714.2857 |
| 0.7751277683 |
| Slither |
| 125000 |
| 162530.8824 |
| 0.7690846084 |
| Small Brain Games |
| 120000 |
| 345247.3684 |
| 0.3475768709 |
| BasePaint |
| 120000 |
| 344929.8246 |
| 0.3478968516 |
| Aerodrome Finance |
| 110000 |
| 428627.451 |
| 0.2566331199 |

| CharmVerse |
|--------------|
| 110000 |
| 248701.7544 |
| 0.4422968397 |
| Kwenta |
| 105000 |
| 301458.6957 |
| 0.3483064231 |
| Velodrome |
| 100000 |
| 640615.9091 |
| 0.1560997761 |
| Synthetix |
| 100000 |
| 328353.7222 |
| 0.304549616 |
| Kernel |
| 100000 |
| 300119.403 |
| 0.3332007161 |
| Metagov |
| 100000 |
| 283931.0345 |
| 0.3521982026 |
| Zuzalu |
| 100000 |
| 281263.0435 |
| 0.3555390668 |
| eth.limo |
| 100000 |
| 248260 |
| 0.4028035124 |
| Fe |
| 100000 |
| 245094 |
| 0.408006724 |

Optimism Translators

| 100000 |
|-------------------|
| 239329.2683 |
| 0.4178343949 |
| Lyra Finance |
| 100000 |
| 239277.5 |
| 0.4179247944 |
| Ronan Sandford |
| 100000 |
| 228919.6721 |
| 0.4368344541 |
| Ipsilon |
| 100000 |
| 226575 |
| 0.4413549597 |
| CryptoZombies |
| 100000 |
| 220272.8571 |
| 0.4539823985 |
| ApeWorX LTD |
| 100000 |
| 219501.5873 |
| 0.4555775711 |
| Gitcoin Passport |
| 100000 |
| 214586.6667 |
| 0.4660121785 |
| RainbowKit |
| 100000 |
| 204337.9747 |
| 0.4893852949 |
| Ultra Sound Relay |
| 100000 |
| 202154.7619 |
| 0.4946705141 |
| EthereumETL |

| 195573.8095 |
|--------------|
| 0.511315908 |
| ZORA |
| 100000 |
| 193764.4237 |
| 0.5160906119 |
| Tally |
| 100000 |
| 190264.6154 |
| 0.5255838023 |
| Vectorized |
| 100000 |
| 188918.0556 |
| 0.5293300299 |
| Yearn |
| 100000 |
| 186888.8889 |
| 0.5350772889 |
| StreamETH |
| 100000 |
| 179684.2105 |
| 0.5565319274 |
| P256Verifier |
| 100000 |
| 172419.6721 |
| 0.5799802236 |
| Cannon |
| 100000 |
| 172150 |
| 0.5808887598 |
| Synpress |
| 100000 |
| 170001.8182 |
| 0.5882290029 |
| EthernautDAO |
| 100000 |
| |

152518.3333

| 0.6556588825 |
|--------------------|
| The Ethernaut |
| 100000 |
| 149232.1429 |
| 0.6700969247 |
| Blocknative |
| Web3 Onboard |
| 100000 |
| 142809.0909 |
| Optimistic Indexer |
| 100000 |
| 134070.4545 |
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| Waffle |
| 100000 |
| 132861.4035 |
| 0.7526640345 |
| Coordinape |
| 100000 |
| 129367.3077 |
| 0.7729928201 |
| Sushi |
| 100000 |
| 126284.2105 |
| 0.7918646328 |
| Guild.xyz |
| 100000 |
| 125870.9677 |
| 0.7944643772 |
| Candide |
| 100000 |
| 125746.5116 |
| 0.7952506889 |
| Support NERDs |
| 100000 |
| 125268.2927 |
| 0.7982866044 |

| Secureum |
|-----------------------|
| 100000 |
| 125127.7778 |
| 0.7991830573 |
| Blobscan |
| 100000 |
| 120311.1111 |
| 0.8311784263 |
| UseDApp |
| 100000 |
| 115539.0244 |
| 0.8655084334 |
| Soul Wallet |
| 100000 |
| 113235.8974 |
| 0.8831121779 |
| Wallet Abstraction |
| 100000 |
| 106651.5152 |
| 0.9376331865 |
| Optimism Ambassadors |
| 100000 |
| 103803.0303 |
| 0.9633630127 |
| Aestus Relay |
| 98000 |
| 201227.2727 |
| 0.4870115202 |
| Pairwise |
| 97000 |
| 163353.0303 |
| 0.5938059418 |
| WhatsABI |
| 95000 |
| 129365.9091 |
| 0.7343511182 |
| Hypercerts Foundation |
| |

| 95000 |
|-----------------------------------|
| 123428.5714 |
| 0.7696759259 |
| Prettier Solidity |
| 94000 |
| 132835.6164 |
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| Funding the Commons |
| 94000 |
| 127433.9623 |
| 0.7376369559 |
| Splits |
| 93000 |
| 191357.1429 |
| 0.4860022396 |
| OP Governance Analytics Dashboard |
| 91000 |
| 90500 |
| 1.005524862 |
| Zero Knowledge Podcast |
| 90000 |
| 177531.9149 |
| 0.5069511026 |
| draper |
| 90000 |
| 163723.2558 |
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| Conduit |
| 90000 |
| 102488.3721 |
| 0.8781484003 |
| Galxe |
| 86000 |
| 126087.234 |
| 0.6820674643 |
| PatrickAlphaC |
| 85000 |
| |

| 105851.0638 |
|----------------------------------|
| 0.8030150754 |
| ETHSafari 2023 |
| 83000 |
| 189842.1053 |
| 0.4372054339 |
| Keccak hashing |
| 82500 |
| 213038.4615 |
| 0.387254017 |
| EthStaker |
| 82500 |
| 155000 |
| 0.5322580645 |
| Sonne Finance |
| 82500 |
| 127169.4444 |
| 0.648740744 |
| Hats Protocol |
| 80000 |
| 264820.5128 |
| 0.302091402 |
| LexDAO |
| 80000 |
| 161444.4444 |
| 0.4955264969 |
| Holograph |
| 80000 |
| 91036 |
| 0.8787732326 |
| Alloy |
| 78000 |
| 188500 |
| 0.4137931034 |
| AW House/Komorebi's Hacker House |
| 77000 |
| 239371.7391 |
| |

| 0.3216754003 | | |
|----------------|--|--|
| Tenderly | | |
| 77000 | | |
| 189022.9865 | | |
| 0.4073578639 | | |
| Endaoment | | |
| 77000 | | |
| 183736.7347 | | |
| 0.4190778732 | | |
| Sassal.eth | | |
| 77000 | | |
| 182107.1429 | | |
| 0.4228280055 | | |
| Rainbow Wallet | | |
| 77000 | | |
| 168915.5345 | | |
| 0.4558491333 | | |
| ethOS | | |
| 77000 | | |
| 140909.0909 | | |
| 0.5464516129 | | |
| growthepie | | |
| 77000 | | |
| 139727.2727 | | |
| 0.5510735198 | | |
| Gelato | | |
| 77000 | | |
| 134901.5625 | | |
| 0.5707865689 | | |
| ChainList | | |
| 77000 | | |
| 124268.6567 | | |
| 0.6196252702 | | |
| RabbitHole | | |
| 77000 | | |
| 117263.1754 | | |
| 0.6566426307 | | |

| Beam Wallet LLC |
|---------------------------------------|
| 77000 |
| 114958.9744 |
| 0.6698041665 |
| Socket |
| 77000 |
| 113273.913 |
| 0.6797681649 |
| DappRadar |
| 77000 |
| 99094.44444 |
| 0.7770364972 |
| ERC4337 Smart Accounts Dune Dashboard |
| 76000 |
| 94322.91667 |
| 0.8057426836 |
| WASD |
| 75000 |
| 196405.4054 |
| 0.3818632173 |
| NiceNode |
| 75000 |
| 154846.1538 |
| 0.4843517139 |
| Umbra |
| 75000 |
| 154689.5833 |
| 0.484841955 |
| roll-op |
| 75000 |
| 143763.6364 |
| 0.5216896421 |
| Pyth Network |
| 75000 |
| 141868.8889 |
| 0.5286571326 |
| BrightID |

| 75000 |
|--------------------------|
| 139521.1538 |
| 0.5375528938 |
| JiffyScan |
| 75000 |
| 129729.5455 |
| 0.5781258212 |
| Clave (formerly Opclave) |
| 75000 |
| 124571.4286 |
| 0.6020642202 |
| Alchemy |
| 75000 |
| 102255.9492 |
| 0.7334536584 |
| The Red Guild |
| 75000 |
| 100552.5 |
| 0.7458790184 |
| Forum |
| 75000 |
| 86710 |
| 0.8649521393 |
| Crust Network |
| 75000 |
| 80008.33333 |
| 0.9374023539 |
| Paco Bytes |
| 74000 |
| 179308.1633 |
| 0.4126973287 |
| Impersonator |
| 73000 |
| 98933.33333 |
| 0.7378706199 |
| polynya |
| 72500 |
| |

| 0.4346241089 |
|---|
| NumbaNERDs |
| 70000 |
| 114711.3636 |
| 0.6102272502 |
| Commons Stack |
| 70000 |
| 104512.2449 |
| 0.6697779774 |
| Karma |
| 70000 |
| 89680.70175 |
| 0.7805469698 |
| Edge & Node / The Graph |
| 67500 |
| 89518.98276 |
| 0.754030016 |
| Hardhat Tracer |
| 67000 |
| 104932.3529 |
| 0.6385066009 |
| PR0 |
| 66000 |
| 87414.28571 |
| 0.7550253309 |
| Vote Amount Frequency 0 50000.0 1737 1 100000.0 1652 2 10000.0 1253 3 25000.0 1075 4 5000.0 894 5 200000.0 766 6 20000.0 723 7 150000.0 696 8 75000.0 675 9 250000.0 630 10 0.0 610 11 77000.0 562 12 15000.0 542 13 500000.0 536 14 2000.0 512 15 30000.0 357 16 1000000.0 315 17 300000.0 307 18 39000.0 256 19 130000.0 232``` |
| |

166810.8108