



# Polkasassembly Social Contract

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**Proposal:** A Social Contract between Polkasassembly and Polkadot/Kusama Treasury

**Proposer:** Premiurly

**Contact:** [hello@polkasassembly.io](mailto:hello@polkasassembly.io)

**Proponent(DOT):** 138fXycd5rpLBhxTe8SSj7Lp1jhsEYjUzqKmqjtis4p3A51e

**Requested DOT:** 1849 DOT

**Date:** 12-June-2021

**Short description:** This submission proposes a recurring payment (quarterly) to cover maintenance, operations and human resource costs for Polkasassembly, including general maintenance, runtime upgrades changes and infrastructure cost. Since Polkasassembly supports both Kusama and Polkadot Networks, this maintenance proposal will alternate networks for submission every three months. This submission covers costs for July, August, September of 2021. We are requesting the Polkadot treasury to provide funds this time.

## Context of the proposal

### Platform Details

#### Github

Milestones and OKRs for the 3 months period of this proposal

Move polkasassembly from parity server to premiurly server

Implement better monitoring and crash recovery for onchain harvester

Implement monitoring and alerts for polkasassembly downtime and out of sync blocks

Add page for council members info.

Add CDN for fast load time for frontend

Implement login with hardware wallet

Implement login with qr code for parity signer and stylo

## Budget Breakdown

### Cloud/Infrastructure cost

#### Google Cloud Cost

#### Sendgrid(Email Service Provider) Cost

Cost: EUR 18.95/month

### Human resource Cost

#### Full stack Developer

Cost: EUR 4000/month

#### Front-end Developer and designer

Cost: EUR 3000/month

#### Site reliability Engineer

Cost: EUR 3500/month

#### Forum Moderator

Cost: EUR 500/month

### Legal Costs

Cost: EUR 56/month

### Total Quarterly Budget

# Context of the proposal

Polkasassembly is a platform for anyone to discover and participate in Polkadot and Kusama governance. You can browse proposals made on-chain, discuss with the community and vote directly from the website using a browser extension. Proposal authors are the only one able to edit the proposal post and description. Also you can get notifications for discussions of interest or when a new proposal appears on-chain.

Polkasassembly has become an integral part of polkadot and kusama governance. Proposers use it to describe the details of the proposals. Council members are using it to discuss and coordinate voting on motions. Links of proposals and discussion of Polkasassembly is used in various newsletters and apps.

## Platform Details

<https://kusama.polkasassembly.io/>

<https://polkadot.polkasassembly.io/>

## Github

<https://github.com/premiurly/polkasassembly>

# Milestones and OKRs for the 3 months period of this proposal

We are planning to add these milestones and features for this quarter. This would be a one time development. Tips would be needed to fund extra features.

- **Move polkasassembly from parity server to premiurly server**  
Move polkasassembly from parity google cloud account to premiurly cloud account.  
Domain also needs to be switched
- **Implement better monitoring and crash recovery for onchain harvester**  
Onchain harvester need better crash recovery. It should automatically detect connection failure from RPC node and recover accordingly. Better to change the harvester to a server then long running job with healthcheck.
- **Implement monitoring and alerts for polkasassembly downtime and out of sync blocks**  
Add monitoring and alerts when polkasassembly is down so that max uptime can be maintained. Alerts also need to be configured when it is behind current finalised blocks by a certain amount.
- **Add page for council members info.**  
Add a list of current council members and dedicated page for all council member. Add backing and votes by council members. Members should also be able to edit the page with markdown to add personal info.
- **Add CDN for fast load time for frontend**  
Move the frontend to CDN instead of nginx for faster load times.
- **Implement login with hardware wallet**  
Users should be able to link and login with hardware wallets.
- **Implement login with qr code for parity signer and stylo**  
Users should be able to link and login with air gapped wallets like parity signer and stylo.

# Budget Breakdown

Our budget is mainly used to pay infrastructure/cloud costs, general upkeep and maintenance of the platform. Our human resources cost includes frontend and backend developers, devops engineer and forum moderator is also included in the budget. Bug Fixes would be covered in this budget only.

## Cloud/Infrastructure cost

Cloud costs include google cloud and sendgrid email service provider.

### Google Cloud Cost

Polkassemble is deployed on Google Cloud with Kubernetes. It uses Postgres based cloud sql database and other storage tools like redis. The following table is an estimated breakdown for a single month of cloud costs accrued to run the kusama version of Polkassemble (These numbers are based on our previous Google Cloud bill)

Product	Resource Type	Interval	Usage	Amount(€)
Compute Engine	E2 Instance Core running in EMEA	1 month	4160.889 hours	180.14
Kubernetes Engine	Zonal Kubernetes Clusters	1 month	1384.236 hours	95.51
Compute Engine	N1 Predefined Instance Core running in Frankfurt	1 month	1491.992 hours	91.51
Compute Engine	E2 Instance Ram running in EMEA	1 month	16643.559 Gibibyte-hours	63.78
Cloud SQL	Cloud SQL for PostgreSQL: Zonal - vCPU in EMEA	1 month	768 hours	59.78
Compute Engine	N1 Predefined Instance Ram running in Frankfurt	1 month	5594.969 Gibibyte-hours	65.78
Compute Engine	Storage PD Capacity	1 month	597.743 Gibibyte-months	51.12
Cloud SQL	Cloud SQL for PostgreSQL: Zonal - RAM in EMEA	1 month	2880 Gibibyte-hours	41.45
Compute Engine	Network Load Balancing: Forwarding Rule Minimum Service Charge in EMEA	1 month	715.854 hours	31.95
Compute Engine	External IP Charge on a Standard VM	1 month	4906.878 hours	25.34
Cloud SQL	Cloud SQL for PostgreSQL: Zonal - Standard storage in EMEA	1 month	27.305 Gibibyte-months	34.90
Cloud SQL	Storage PD Snapshot	1 month	8.293 Gibibyte-months	23.26
Compute Engine	Storage PD Capacity in Frankfurt	1 month	10.027 Gibibyte-months	18.34

Compute Engine	Network Egress via Carrier Peering Network - EMEA Based	1 month	5.172 Gibibytes	18.45
Compute Engine	Network Inter Zone Egress	1 month	24.259 Gibibytes	17.31
Compute Engine	Network Load Balancing: Data Processing Charge in EMEA	1 month	2.488 Gibibytes	1.42
Compute Engine	Network Internet Egress from EMEA to China	1 month	0.061 Gibibytes	1.01
Compute Engine	Network Internet Egress from EMEA to APAC	1 month	0.1 Gibibytes	0.86
Compute Engine	Network Internet Egress from EMEA to EMEA	1 month	0.089 Gibibytes	0.77
Cloud SQL	Network Internet Egress from EMEA to APAC	1 month	0.048	0.66
Compute Engine	Network Internet Egress from EMEA to Americas	1 month	0.053 Gibibytes	0.46
Compute Engine	Network Internet Egress from Frankfurt to China	1 month	0.022 Gibibytes	0.38
Compute Engine	Network Internet Egress from Frankfurt to APAC	1 month	0.028 Gibibytes	0.25
Compute Engine	Network Internet Egress from Frankfurt to EMEA	1 month	0.018 Gibibytes	0.16
Compute Engine	Network Internet Egress from Frankfurt to Americas	1 month	0.009 Gibibytes	0.08
Compute Engine	HTTP Load Balancing: Global Forwarding Rule Minimum Service Charge	1 month	0.014 hours	0.02
Compute Engine	Network Inter Region Egress from EMEA to Americas	1 month	0 Gibibytes	0.01
Compute Engine	Network Internet Egress from EMEA to Australia	1 month	0 Gibibytes	0.01
Compute Engine	Sustained Usage Discount	1 month		-19.78
Subtotal in EUR				€804.93
Integrated Tax (18%)				€144.88
Total in EUR				<b>€949.81</b>

## Sendgrid(Email Service Provider) Cost

We use Sengrid as our transactional email provider. Sendgrid is one of the leaders in the email delivery system and has been quite reliable given our infrastructure.

Cost: EUR 18.95/month

## Human resource Cost

As you already know by now, Polkasassembly is a consumer facing platform and since we projects ourselves as one of the cornerstones for consumers interacting with Polkadot and Kusama, it requires certain human resources, both for maintenance and feature addition. Following is a summarised list of resources we require:

### Full stack Developer

Polkasassembly is built on top of React, Typescript and GraphQL on the frontend while it uses node.js for all of its backend work. A Full stack developer would work on the entirety of this stack and would make sure the platform works correctly and can help churn out new features with minimal specifications for Polkasassembly

Cost: EUR 4000/month

### Front-end Developer and designer

Front end developer have knowledge of react.js, typescript, javascript, ui/ux design which is necessary for frontend development of Polkasassembly.

Cost: EUR 3000/month

### Site reliability Engineer

Site reliability Engineer have knowledge of devops, linux, kubernetes, google cloud, shell scripting, ci/cd, security and automation which is necessary for keeping the website up, preventing ddos attacks, creating deployment automation and fault correction.

Cost: EUR 3500/month

### Forum Moderator

Polkasassembly is a forum which needs moderation. When inappropriate posts get reported or there is a gdpr request this person is responsible for providing resolution.

Cost: EUR 500/month

## Legal Costs

Premiurly is registered in estonia. We are using enty.io for incorporation, tax filing, mandatory compliance and other legal tasks.

Cost: EUR 56/month

## Total Quarterly Budget

Item	Cost Type	Cost(EUR)
Google Cloud Cost for kusama	Infrastructure	950
Google Cloud Cost for polkadot	Infrastructure	950
Sendgrid (Email Service)	Infrastructure	19
Full Stack Developer	Human Resource	4000
Front End Developer/Designer	Human Resource	3000
Site reliability Engineer	Human Resource	3500
Forum Moderator	Human Resource	500
Legal	Legal	56
Per Month Cost		12975
Total Quarterly Cost		<b>12975*3 = 38925</b>

**Total Cost:** 38925 EUR

**DOT rate:** 25.145 USD/DOT - 21.05 EUR/DOT, using monthly avg from [Subscan Price Chart](#).

**Amount Requested:** 1849 DOT

**Beneficiary:** 138fXycd5rpLBhxTe8SSj7Lp1jhsEYjUzqKmqjtis4p3A51e

**Contact:** [contact@premiurly.in](mailto:contact@premiurly.in)

**Period:** July-August-September 2021