

## **JCG | Mining Data Decentralization**

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### **PROBLEM**

According to an EY 2018 [1] report on the top 10 issues facing the mining industry two of the top three deal with the handling of data and cyber security. In the last 10 years digitalization has become increasingly important for every sector of business. This has been shown to be especially true for mining companies whose profit margins are dependent on any number of factors such as government oversight, prior site data, and daily profitability [2]. These factors are all data driven and with legacy systems, proprietary software, and global operations, it is difficult to consolidate all this information in a reasonable amount of time wasting money, man power, and time. Cyber security has also become prominent in the last 10 years as there has been an unprecedented number of cyber attacks in the last few years ranging from individuals to whole cities be held hostage to malware [3].

### **SOLUTION**

By decentralizing the data using blockchain technology it becomes a part of a global network millions strong. Your data is encrypted and backed up in thousands of shards spread across the globe, both backing up and protecting your data from cyber attacks. This also lowers your cost of storage, provides fast access to your data anywhere in the world and gives you absolute control over permissions and accessibility over your data.

### **MARKET/COMPETITIVE ADVANTAGE**

Typically for solutions like this one would normally offload data onto internal servers, or platforms such as Google Cloud Platform or Amazon Web Service. But with each of these options there are risks inherent to the system. By keeping data internal you have to combat new cyber threats everyday with legacy software and systems, this can lead to malware attacks and being held 'hostage' by encryption attacks. By using existing platforms you are not in absolute control of your data, the services are allowed to comb through your data and you don't not have the final say in who has access to it.

### **UNIQUE VALUE PROPOSAL**

We propose that by decentralizing data onto a blockchain based contract network it is possible to significantly lower server costs and accessibility. By using a network based on blockchain you will have absolutely secure data that you are in control of absolutely and at all times. This will also make your data hacker proof while creating a more effective environment for mining data collection.

### **ASK**

With the grant we would build applications and contracts capable of supporting the data shift off of your shoulders and onto a new network that is more secure, more reliable and less expensive. We believe we could build the platforms Alpha in around a year and this money would allow us to continue our research and development.

### **CLOSING**

JCG appreciates the time and effort you have put into providing us with this opportunity and hope to work with you into the future.

## **REFERENCE**

[1] EY Report

[2] Source that demonstrates how crucial data is to finding patterns to make more money or something

[3] Atlanta being held hostage to malware