



# EXECUTIVE SUMMARY

## PROBLEM

With the explosion of data from the internet, social media, and IOT, database admins have moved to NOSQL type of unstructured databases to allow them to scale. Unfortunately, they traded off ACID compliance for horizontal scaling. The problem is traditional databases won't scale and NOSQL databases are not ACID compliant.



## SOLUTION

Shardix is creating a Dataplatform, a decentralized, on-demand, scalable database service. It will store both structured and unstructured data geographically dispersed and replicated for speed and security. Shardix is complementary to the other components to make the decentralized Internet complete. Like Bitcoin, data is stored and secured on various hardware around the world. Shardix uses blockchain to pay "miners" to host secure data.



## TEAM



RICHARD NEHRBOSS

Co-Founder – Richard has over 30 years' experience in business, finance and software dev. Blockchain investor and developer. BS in Comp Sys Engineering from RPI. Richard has built and exited multiple businesses, and developed software in multiple countries.

CTO – With 30 years' experience in software and database development, Olivier brings incredible talent to the Shardix team. Olivier oversees all aspects of the development of our software stack. Holding roles such as Senior Program Manager of the SQL Server team at Microsoft, Olivier is uniquely qualified to disrupt the database/data platform industry.



OLIVIER MEYER



MATHEW CUSACK

Ecosystem Development – As the first advisor to Sia tech, Mathew has extensive experience in the Blockchain Industry. He also co-founded Plug Power, a Nasdaq company; grew XOS to liquidity event; helped found RollioForce, Nebulous Labs, Mobius Labs, ChugaChaga, EnerMat, ReVivo Medical & Inventors Guild.

## MARKET

"Business leaders demand next-generation applications and new insights to drive more intelligent engagement and better decisions. To get there, enterprise architects need to design an agile technical architecture that can scale automatically with capabilities, such as databases, that are always available to support new initiatives. It takes enormous time, effort, and coordination to provision new databases today because of a lack of resources to meet the administration challenges of rolling out complex clustered systems."

Forrester Research, 2017

By 2019 the Cloud Database and Database-as-a-Service (DBaaS) market is expected to grow at a CAGR of 67.30% to \$14.05 billion according to Markets and Markets.

"Database as a Service (DBaaS) offers organizations accelerated deployment, elastic capacity, greater consolidation efficiency, higher availability, and lower overall operational cost and complexity." Javier Puerta, Oracle

- DBaaS reduces database sprawl
- DBaaS supports rapid provisioning
- DBaaS enhances security
- Automated centralized management

## SHARDIX FEATURES

### Performance

Shardix is developing a geodistributed decentralized sharded database. Shardix reduces latency by retrieving data from the nearest nodes and fastest nodes and as the nodes are symmetric, retrieval can happen in parallel.

### Scalability

Horizontal scaling is the foundation of Shardix, no more trading off consistency of NOSQL for scalability. Shardix will scale across business and geographic partitions.

### Reliability

With Shardix the end user can dictate the level of replication and sharding of their data, allowing many nines of reliability. For example a user may choose to replicate their critical data on 100's of nodes around the world. This makes Shardix immune to partitioning and failure of data-centers, businesses, even entire countries.

### Service Tiers

Beyond choosing replication levels, Shardix Dataplatform users can choose to have their data tiered for faster throughput by choosing the allocation of RAM, SSD, and HD. It's possible with Shardix to allocate multi-terabyte database totally in RAM.

## FUNDING

Shardix will perform an international ICO early 2018. ShardCoin tokens will be sold with a hard cap of \$38 Million.

