

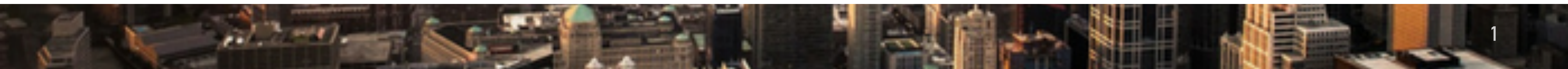
EPIC KNOWLEGDE SOCIETY



Code | Content | Community | Collective

FUSION LEDGER

Platform Pitch Deck



EMERGING PLATFORMS FOR INNOVATION COMMUNITIES

EPIC

<https://epicknowlegesociety.com>

WHAT IS EPIC KNOWLEDGE SOCIETY

- EPIC Knowledge Society is a Digital Engineering & Entrepreneurship Incubator with expertise in Blockchain Protocol Development, Platform Engineering, Product Development, Production Deployment, Strategy Consulting, Security Audit, Service Incubation, Project Management, etc. related to Protocols such as Bitcoin, Ethereum, R3 Corda, Ripple, Hedera Hashgraph, Hyperledger Fabric, Hyperledger Indy, Hyperledger Sawtooth, Tezos, Algorand, Aeternity, IOTA, RSK, Polkadot etc.

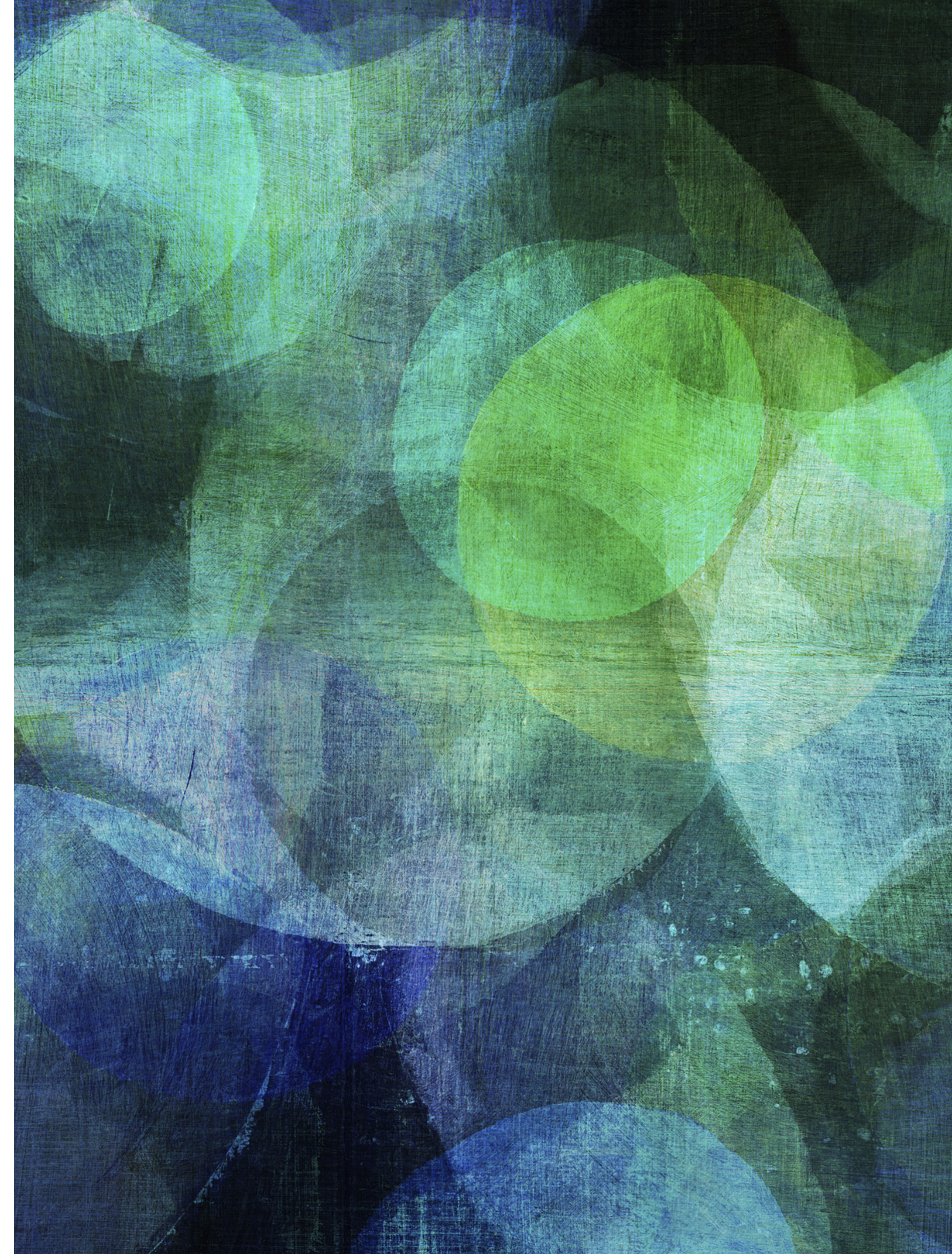
WHAT IS YOUR COMPANY GOING TO MAKE?

- Our company is going to make a fusion ledger. It is a distributed ledger to streamline and secure data stream management systems in a decentralised manner using state of the art cryptographic primitives and random access oracles such that the data properties are verified using zero knowledge proofs and data relationships are processed using cryptographic commitments. It streamlines data processing by linking data streams using dynamic schema templates. It is providing efficiency to data storage and retrieval by generating directed acyclic graphs from data streams.

WHERE DO YOU LIVE AND WHERE WOULD BE THE COMPANY BASED

*We are currently based in
Bengaluru, Chennai, Calicut,
Mumbai, Pune, and Trivandrum,*

*Our organisation will be based in
seven locations in India -
Bengaluru, Chennai, Calicut,
Mumbai, Pune, Trivandrum, Kochi*

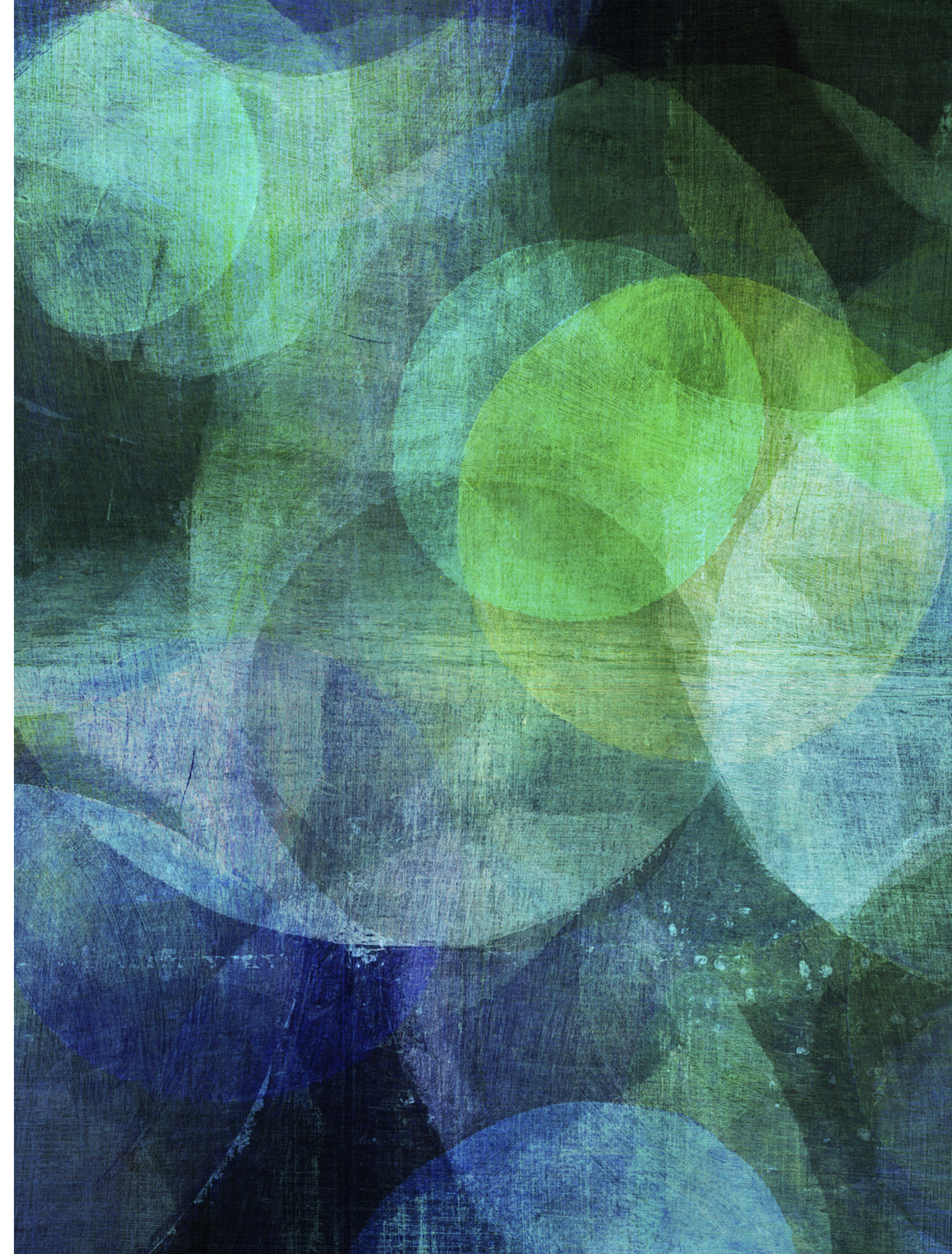


HOW LONG HAVE YOU BEEN WORKING ON THIS IDEA, DID YOU WORK ON THIS TOGETHER ? FULL TIME OR PART TIME ?

We have formed a community of developer evangelists supporting epic knowledge society. We envision a growing developer community around fusion ledger.

We have been working on the data processing engine for Fusion Ledger for the past three months. We have started working on the cryptographic primitives since two months.

We are all working part time as of now. We are looking for full time involvement from 2020 Q2.



WHAT IS THE CURRENT STATE OF THE PROJECT ?

We are developing data stream processing engine and cryptographic primitives, random oracles and smart contracts

WHO ARE YOUR TARGET CUSTOMERS ?

*Every governments and private sector companies
with need for securely processing streaming data
in a distributed and decentralised manner at
scale are our target customers*

It includes the following —

Government Data Centres

Pharmaceutical Companies

Energy Distributers

Energy Producers

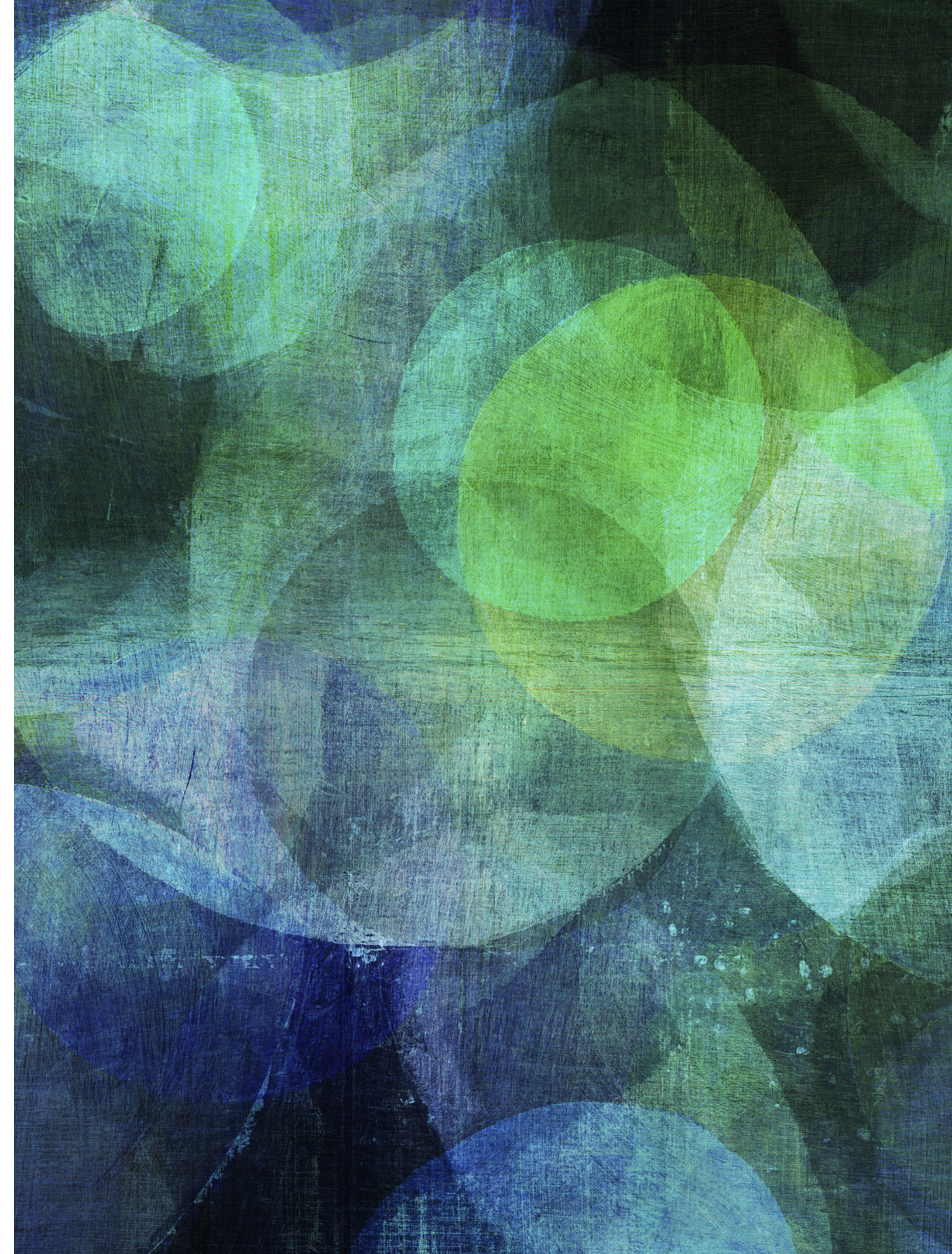
Automotive Companies

Manufacturing Companies

Transportation Companies

Supplychain Companies

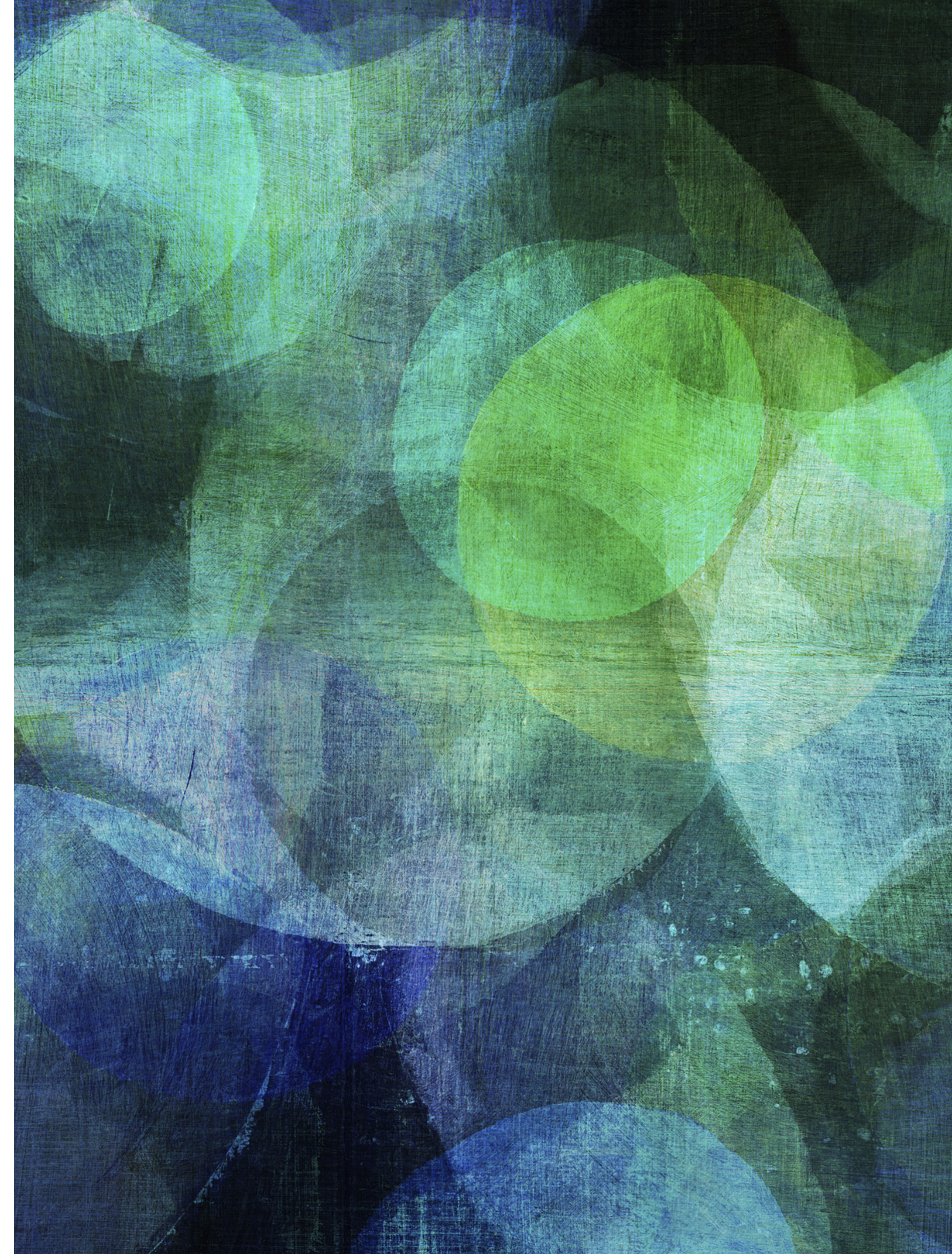
Logistics Companies



WHAT IS THE PROBLEM OF THE TARGET CUSTOMERS THAT YOU ARE SOLVING , COMPELLING REASON TO BUY

It is very difficult to streamline datasets from sensors, telemetry, satellites, actuators, cameras etc. in a fault tolerant manner

It is very difficult to separate data about time stamps, events, functional attributes, non-functional attributes etc. from a streaming dataset in a centralised server as the knowledge about the dataset will be distributed and decentralised in a practical scenario.

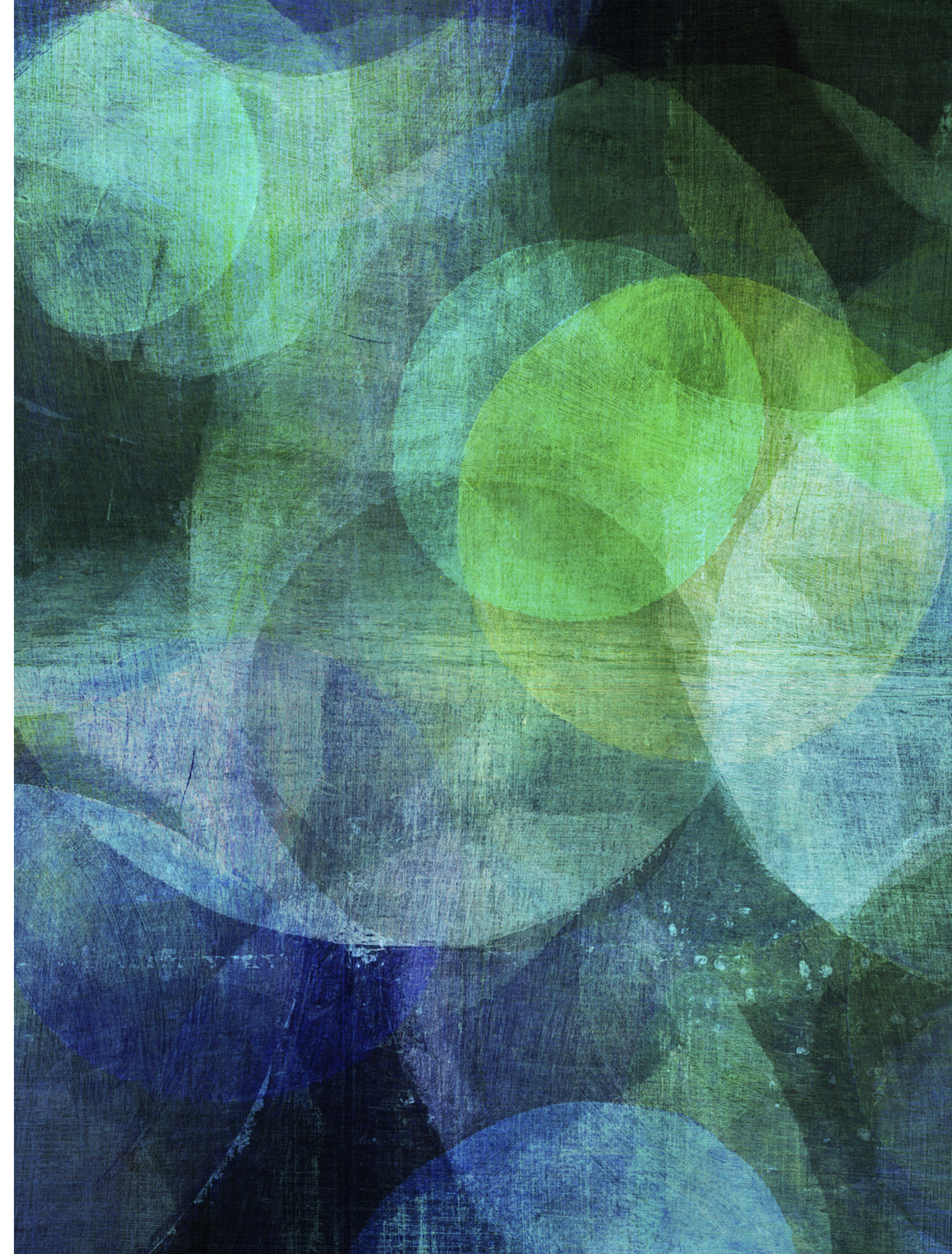


WHAT IS THE CATEGORY OF YOUR PRODUCT ?

*Our product is a Distributed and
Decentralised Data Stream Management
Ledger powered by Consensus Algorithms
and Cryptographic Primitives.*

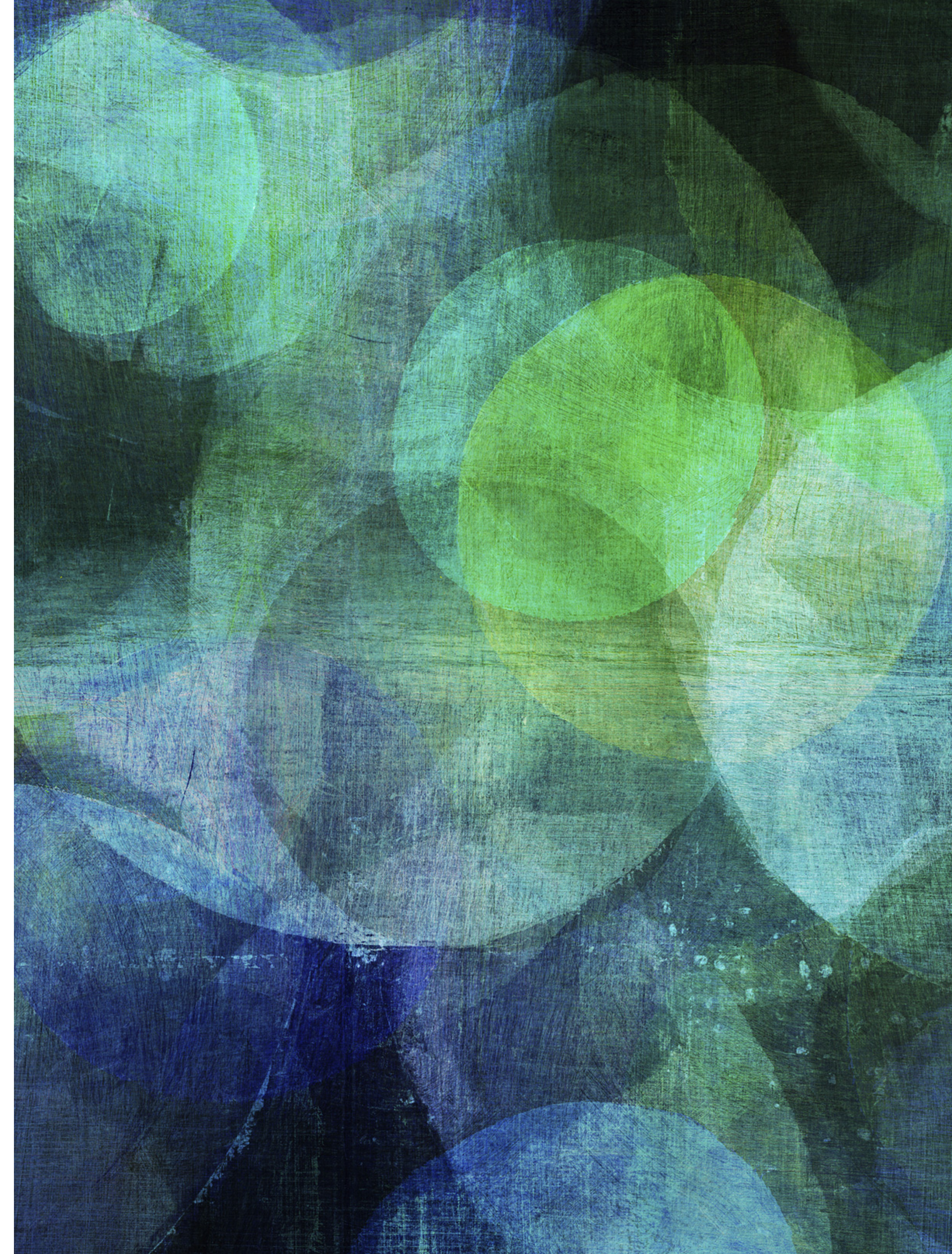
*Our product will have a multi-signature
wallet based decentralised application
interface for end users*

*Our product will also have a Smart Contract
layer for ensuring Governance, Regulations
and Compliance in Data Processing
Agreements.*



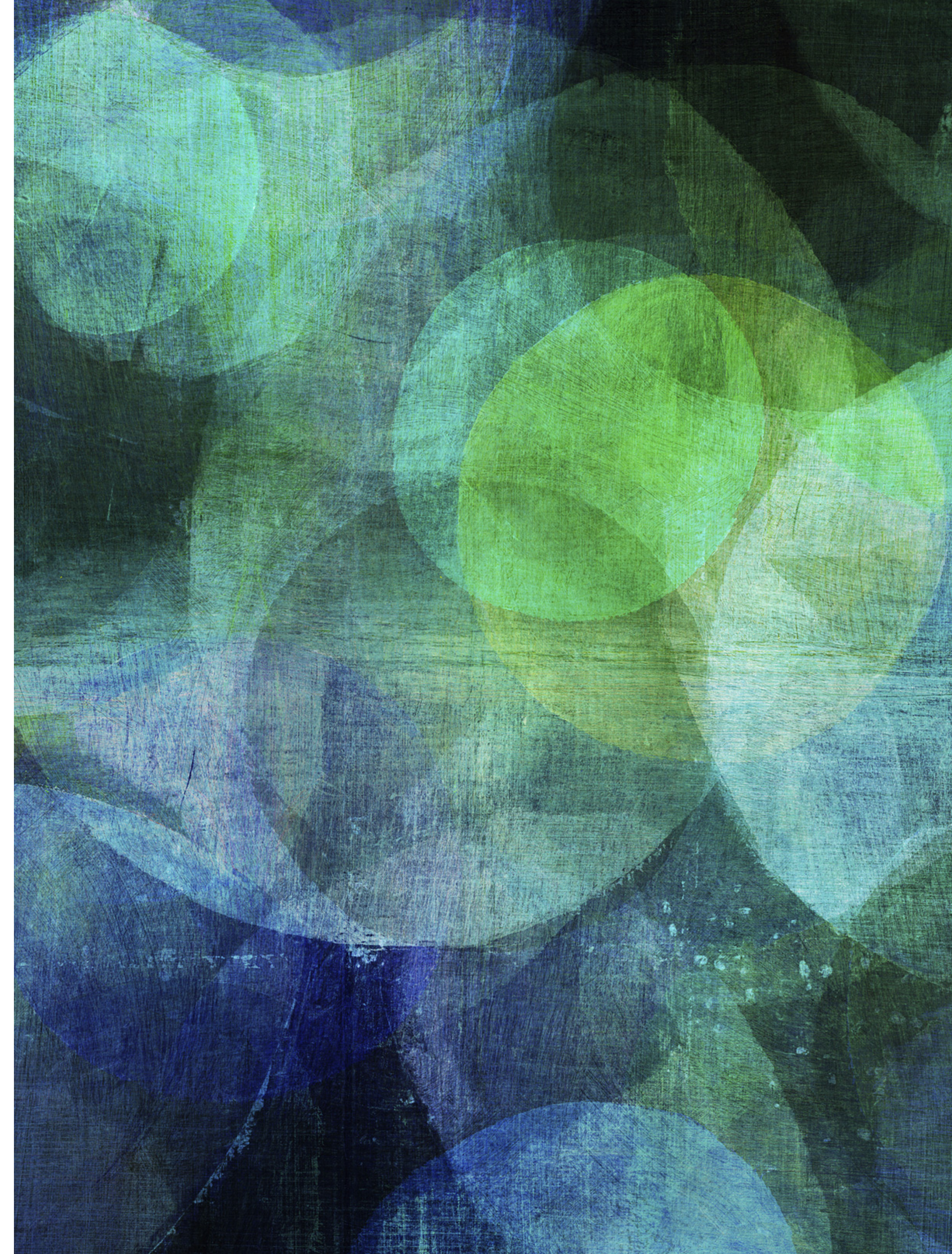
WHAT IS THE KEY BENEFIT OF YOUR PRODUCT THAT SOLVES THE CUSTOMER PROBLEM

*Our product generates data lineage
and data provenance through
decentralised and distributed
workflows that streamlines data
validations and data tokenisation
process from diverse data sources
that produces data types of infinite
varieties, velocities and volumes.*



WHO ARE THE MAIN COMPETITORS NOW? WHO MIGHT BECOME YOUR COMPETITOR IN THE FUTURE? WHO DO YOU FEAR THE MOST?

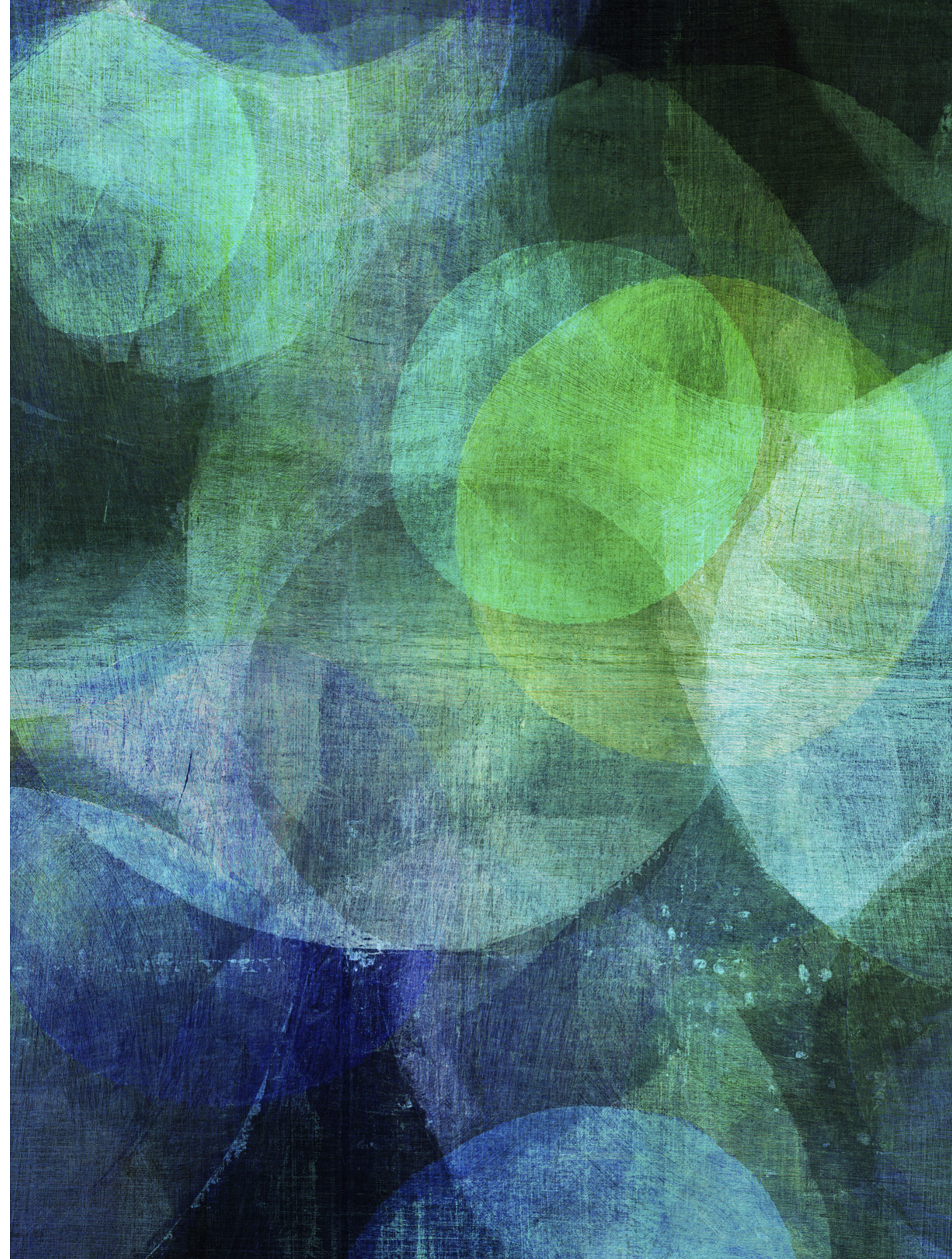
Ocean Protocol is our current competitor as they have built decentralised data exchange already. IOTA could be a competitor in the immediate future as they have built a large scale decentralised data marketplace. We don't fear any of these competitors as we have a unique value proposition that is our convergence of cryptographic primitives and random oracles and conjugated consensus algorithms. Our competitive advantage would be our focus and expertise in data engineering and data governance.



WHAT IS NEW ABOUT WHAT YOU ARE MAKING?

*Our implementation of blending
Pendersen commitments and Zero
Knowledge Proofs is one of its first
kind with reference to a 2012
MIT Research Paper.*

*Our implementation of Random
Access Oracles using IPLD and
IPFS DAG is also quite novel.*



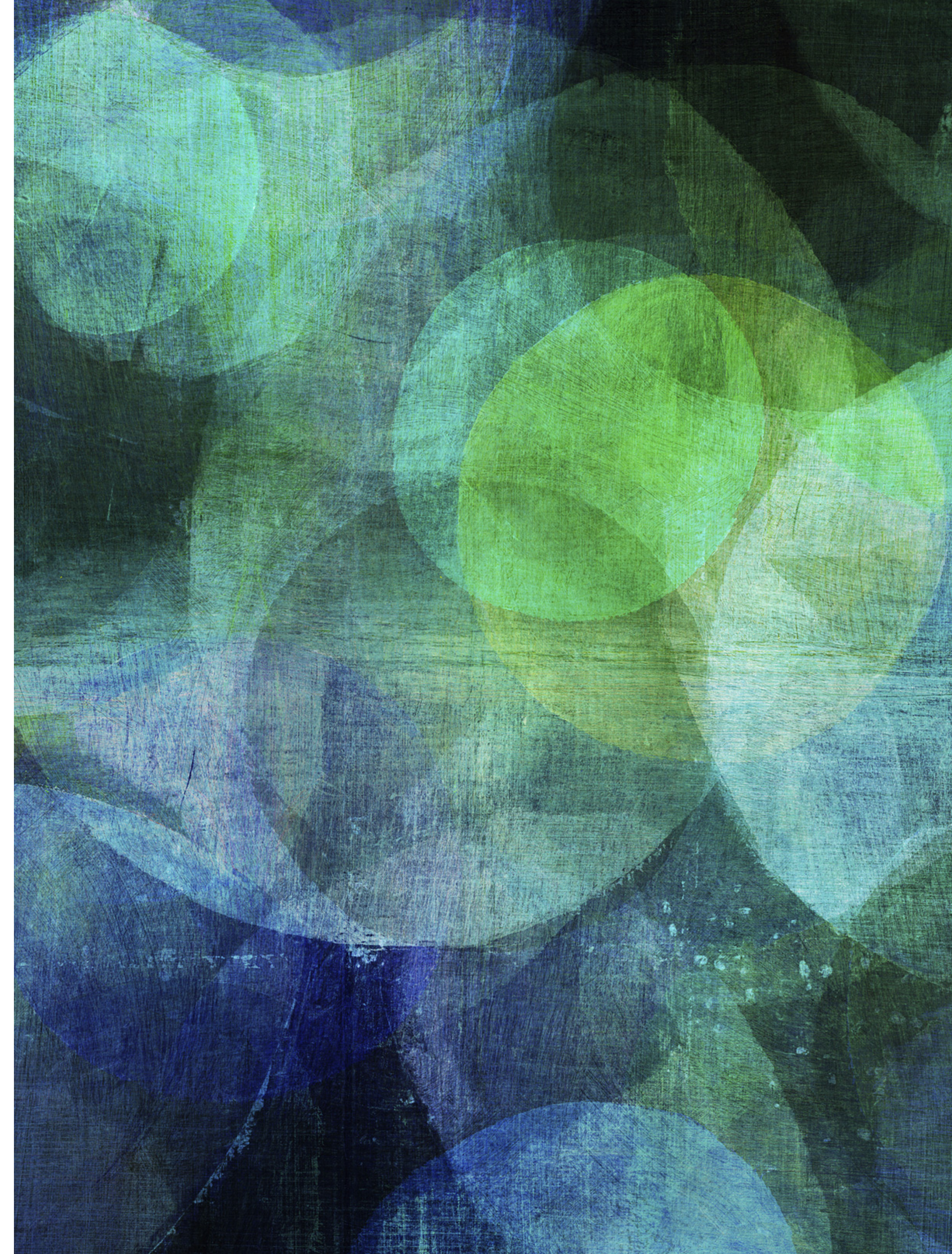
WHAT IS NEW ABOUT WHAT YOU ARE MAKING?

Our design of interactive oracle proofs for the decentralised oracles and data sources is one of its first kind in the world of distributed ledgers. Our implementation of ZK STARKS as interactive oracle proofs using Random Oracle Model is also a novel technique.



WHAT SUBSTITUTES DO PEOPLE RELY ON BECAUSE THE PROPER SOLUTION DOES NOT EXIST YET (OR USERS DO NOT KNOW ABOUT IT)?

Currently all the organisations and entrepreneurs are relying on distributed ledgers with limited data management capabilities. Most of the existing distributed ledgers lack the ability to separate good data and bad data. Hence it is a garbage-in-garbage-out scenario for most of the DLTs. The DLTs provide advanced cryptographic and consensus algorithms with limited data provenance and data lineage capabilities.



WHY DID YOU PICK THIS IDEA TO WORK ON?

We have been working on building a distributed ledger for data streams from sensors, satellites, maps, cameras, and various other physical data sources. We could not find any existing ledger providing these features. Hence we have decided to build a new ledger of our own.



DO YOU HAVE THE EXPERTISE IN THIS AREA?

Yes. We have been working in the space of data science, data analytics, data management and data streams for more than a decade. We also are working with distributed ledger technologies since last five years. We have also acquired necessary capabilities in cryptography and consensus algorithms required for this project. Our team has dedicated data scientists and distributed computing experts.



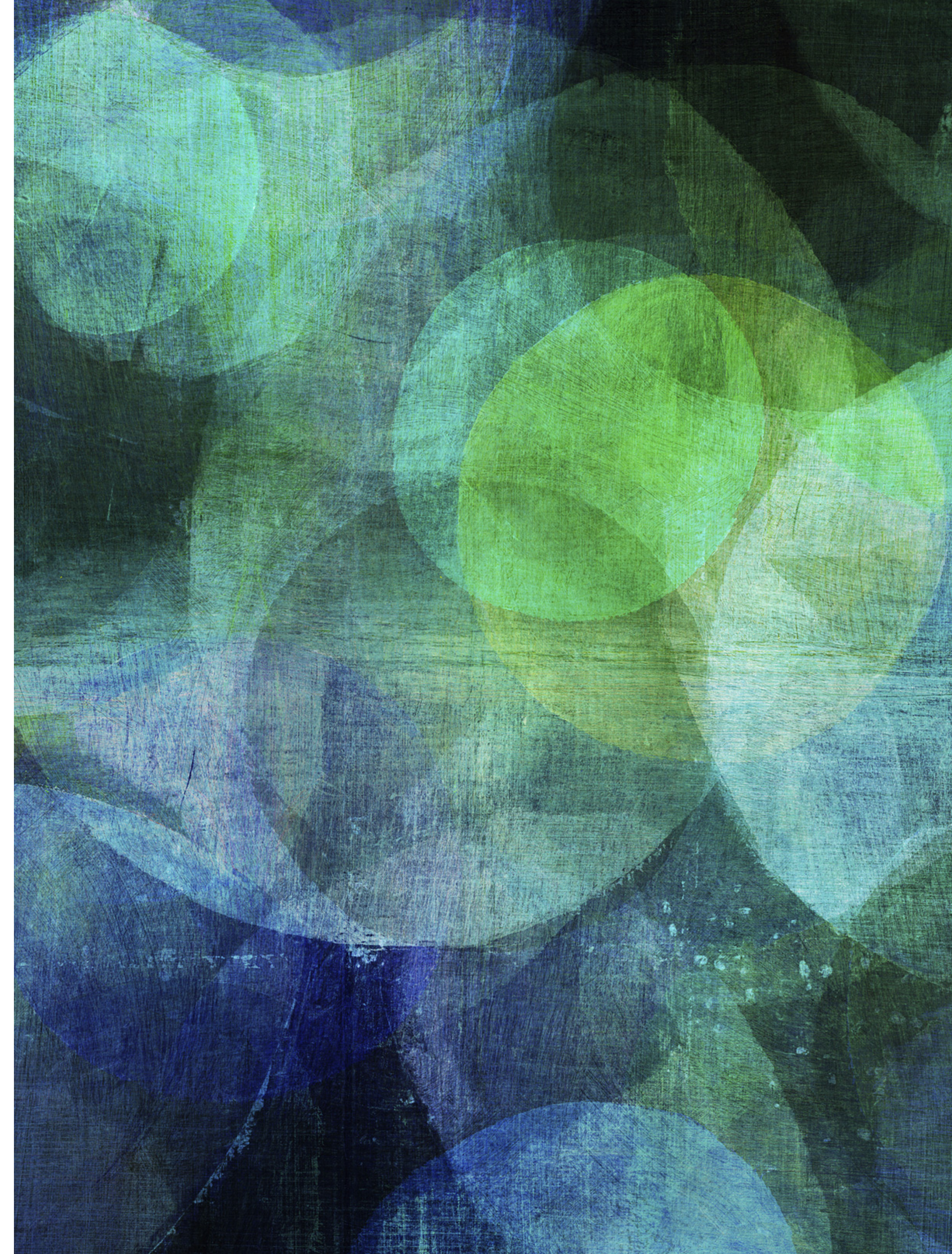
HOW DO YOU KNOW THAT PEOPLE REALLY NEED WHAT YOU ARE MAKING?

We have connected with governments, public sector and private sector companies across US, Europe, and Asia working with data streams and data fusion projects and validated the need for data provenance and data lineage in their projects and platforms. All of them were seeking for an end to end solution that could be implemented in energy sector, defence sector, automotive sector etc.



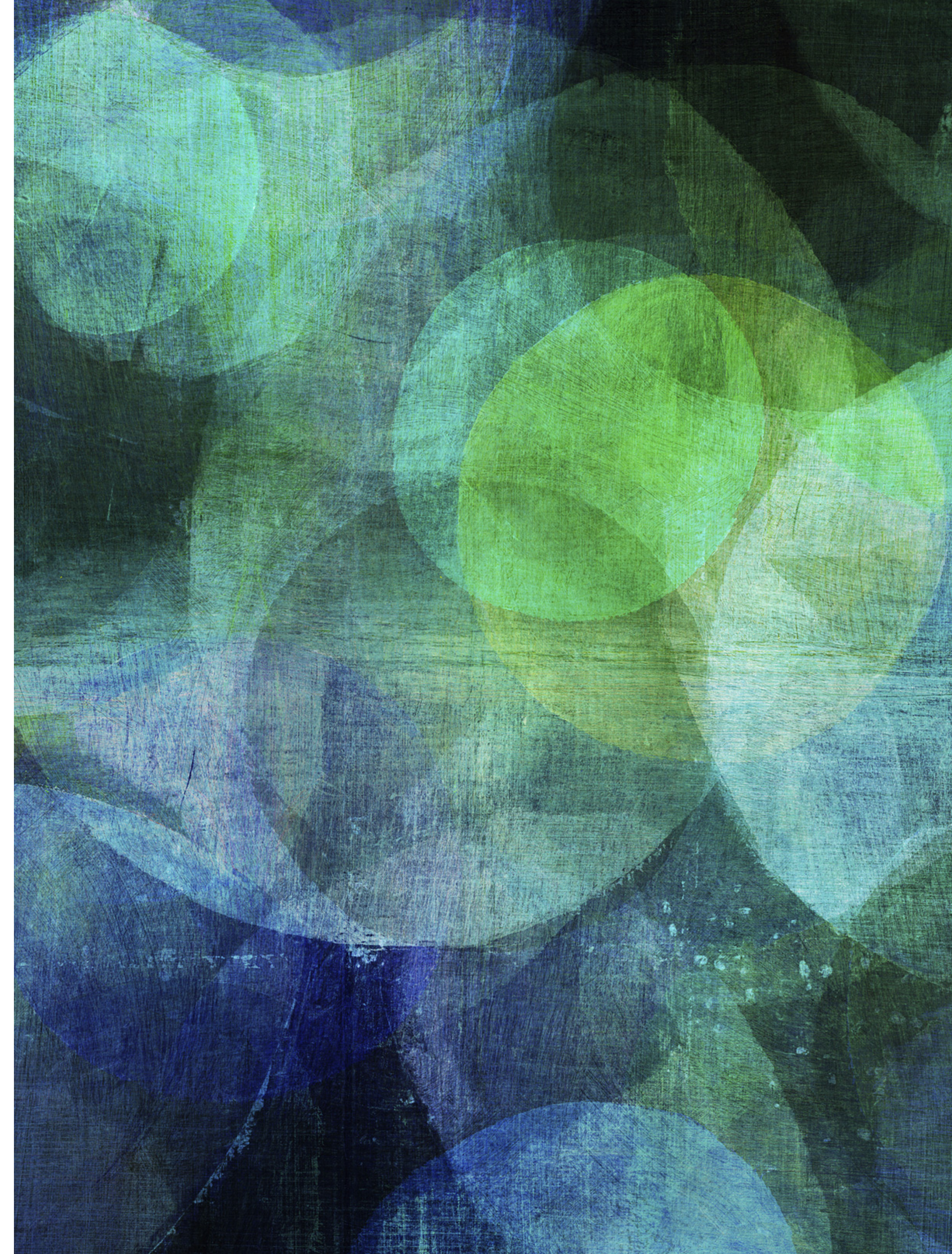
WHAT DO YOU UNDERSTAND ABOUT YOUR BUSINESS THAT THE OTHER COMPANIES DO NOT GET?

We have a deep understanding about data provenance and data lineage issues across Public and Private Sector projects from our two decade long implementation experience across the globe. We Also have a deeper knowledge about the data management needs in complex projects in finance, healthcare, retail, government sector together with great insights about the power of cryptography and consensus algorithms that empowers distributed ledgers. This convergence of knowledge and experience is our competitive advantage and unique value proposition.



HOW DO (OR WILL) YOU MAKE THE MONEY? HOW MUCH?

We are currently a non profit organisation. Hence our purpose and focus is to contribute all the revenue from fusion ledger to the engineering of fusion ledger and fusion ledger focused research and education activities. Our proposed business model is to create secure and streamlined - trusted and transparent data stream oracles and data proof verification and data commitment revealing ledgers. This will be a new era of decentralised and distributed data monetisation through fusion ledger. There will be a freemium model and a subscription based access to the event streams and data streams produced by the fusion ledger. We are targeting to make 1K USD from each data oracle and 10K USD from each data stream. We are targeting to sell 100 oracles and ten data streams within two years of inception.



HOW DO YOU PLAN TO ONBOARD USERS?

The data consumers and data verifiers and data providers will be onboard through a multi signature wallet powered by post quantum safe one time unique digital signature. This will ensure world class security and scalability. We will campaign across governments, private and public sector consortiums to onboard large scale data providers, data consumers and data verifiers. This will provide a data monetisation platform with attractive rewards and incentives for data providers, data verifiers and data consumers.



HOW DOES YOUR SOLUTION USE BLOCKCHAIN?

Fusion Ledger will provide cryptographic proofs and commitments from data streams through decentralised oracles. These proofs and commitments can be verified only through a distributed ledger that can process these interactive oracle proofs and commitments. The on-boarding of data consumers, data providers and data verifiers are also through the smart contracts that verifies the user registration through one time unique digital signatures generated from multi signature wallets.



WHAT ADVANTAGES DOES BLOCKCHAIN PROVIDE TO YOUR SOLUTION OVER USING TRADITIONAL SYSTEMS?

Blockchain Technology provides us a decentralised, distributed, scalable and streamlined ledger for verifying unique digital signatures, cryptographic proofs, commitments, random oracles etc. in an efficient and effortless manner in comparison to existing complex technologies.



**HAVE YOU INCORPORATED
OR FORMED A LEGAL
ENTITY YET?**

YES



WHO WRITES THE CODE OR PROVIDES OTHER TECHNICAL WORK FOR YOUR PRODUCT? WAS ANY OF IT DONE BY A NON-FOUNDER?

Our technology is designed by our co-founder and CTO. He is implementing the technology himself with the support of the developers who are legally part of the entity by employment contracts.



DO YOU WANT TO SHARE ANYTHING ELSE WITH US?

Our co-founders and collaborators have been working in the world of blockchain technologies and cryptocurrencies since 2012. We are really committed to a decentralised future of society and economy. We are championing Blockchain Education across India.



The background of the image features a repeating pattern of the EPIC logo. Each logo consists of two stacked squares: a teal square on top with the letter 'E' and an orange square on the bottom with the letter 'P'. To the right of these squares is a single teal square containing the letter 'C'. This pattern is repeated across the entire image, creating a textured, grid-like effect.

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