DataBroker DAO

A peer to peer marketplace of IoT sensor data. Powered by Ethereum, MultiChain and SettleMint.

WHITE PAPER

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Abstract

This paper introduces DataBroker DAO, a peer to peer marketplace created to provide IoT sensor owners with a clear path to data monetization and data consumers with a decentralised market to buy IoT sensor data.

With DataBroker DAO, we aspire to unleash long-tail creativity with the use of sensor data to facilitate the conversion of incredible ideas into value adding services. By providing a distributed foundational layer for the buying and selling of IoT sensor data, we expect that unimagined uses of data that exist in the hearts and minds of entrepreneurs, researchers and organisations around the world, will emerge to create incredible value adding services that enrich the quality of life in our cities and our societies as a whole.

The global market for IoT sensors has surpassed 600 billion USD per year including the purchase, installation and maintenance of sensors and the acquisition of software packages to interpret and enrich the data. The data resulting from this investment is for primary usage by the sensor owner or enhanced with value-added insights and resold.

Whether for primary usage or for enrichment and re-sale, the data remains grossly under-utilised and the utility for society locked away in organisational silos. By connecting data owners with 3rd party data consumers directly, DataBroker DAO provides a marketplace where IoT sensor data can be fully valorised outside of the primary silos in which it is locked today.

In this sense, DataBroker DAO can be likened to a "secondary market" for IoT sensor data and has been referred to as an "eBay" or "Amazon" for IoT sensor data.

The data sold on the platform is recorded on a permissioned DLT and subsequently anchored to a public blockchain to ensure that the integrity of the data is maintained for buyers. Non-public DLT technology is used to provide a highly scalable and cost-effective data storage solution. The core marketplace functionality is powered by an Ethereum smart contract, written in the Solidity programming language, which enables the listing of specific

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¹ State of the Market: Internet of Things 2016, Verizon

data for sale by IoT sensor owners and the purchase of the data by data consumers.

In this paper, we introduce the DATA Token, the utility token deployed in DataBroker DAO. The DATA Token is used by data consumers to purchase access to sensor data available on the DataBroker DAO platform.

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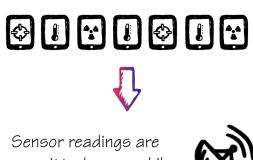
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The challenge

Individuals, companies, researchers and governments are spending hundreds of billions each year on buying and maintaining IoT sensors. The growth of the investment and applications in IoT is truly staggering, and yet, all data captured by these devices is locked up in silos and walled gardens.

9 billion IoT sensors worldwide



Sensor readings are transmitted over mobile, LoRa, Sigfox... networks



and locked away forever in data silos and walled gardens



all 600 billion dollars worth, per year...

The amount of money spent on IoT is truly staggering as is the number of devices already deployed. By 2016, the global market for IoT sensors surpassed 600 billion USD per year, which is expected to grow to 1.2 trillion USD per year by 2019. This include the purchase, installation and maintenance of sensors and the software packages to interpret and enrich the data. By 2016, there were no fewer than 9 billion sensors deployed globally, which is expected to grow to 33 billion by 2019².

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² State of the Market: Internet of Things 2016, Verizon

And, whether for primary usage or enrichment and direct resale, the data remains grossly under-utilised and the utility for society locked away in closed organisational silos. Stifling innovation and holding back society as a whole.

Our solution

With the DataBroker DAO, we aspire to unleash this long-tail creativity and facilitate the conversion of powerful ideas into value adding services. As with the financial markets, where the importance and value of company data have been apparent for decades, giving rise to Bloomberg Market Data, Thomson Reuters, FactSet and a host of vendors, the same opportunity will emerge for IoT sensor data.

Doing so with a distributed foundational layer for the buying and selling of IoT sensor data we expect that unimagined uses of the data will emerge to create incredible value adding services that enrich the quality of life in our cities and our societies as a whole.

DataBroker DAO is the first marketplace for IoT Sensor data that will connect sensor owners with purchasers of the data directly, utilising existing infrastructure from telecommunication providers operating sensor connectivity networks based on GSM, LoRa, SigFox or via a proprietary gateway of the sensor owner.

In a sense, the DataBroker DAO can be likened to a "secondary market" for IoT sensor data and has been referred to as an "eBay" or "Amazon" for IoT sensor data.

Stakeholders

There are a number of stakeholders in the DataBroker DAO including sensor owners, network operators, data processors and data buyers. Below is a definition of each of these stakeholders.

Sensor Owners

Sensor owners are the stakeholders who have purchased IoT sensors and make the data emitted from their sensors available for sale via the DataBroker

DAO platform. This is a diverse group who have generally purchased sensors in order to improve the efficiency of their operations.

The key role of Sensor Owners in DataBroker DAO is to sell the data from their sensors on the platform.

Data Buyers

Data Buyers are those stakeholders who will purchase data on the platform. This purchase may be to use the data in its raw form for their own purposes or to purchase the data with the intention of transforming/enriching the raw data to be resold via DataBroker DAO (see Data Processor below).

The use of the data purchased by Data Buyers can be quite straightforward, for instance, purchasing temperature and rainfall data provisioned by a neighboring office building to have accurate local readings to the more complex, like purchasing data to train one's AI.

Data Processors

Data Processors are those Data Buyers who purchase data with the explicit intention of enriching the data and reselling it. The enrichment may take many forms and Data Processors can be be categorized by the level of insight provided³:

- Simple data services are the most common. Data brokers collect data from multiple sources and offer it in collected and conditioned form data which would otherwise be fragmented, conflicted and sometimes unreliable.
- Smart data services provide conditioned and calculated data, with analytical rules and calculations applied to derive further insight from the collected data and aid the decision-making process.
- Adaptive data services apply analysis to a customer's request-specific data combined with data in a context store. This is a more advanced form of service.

It is estimated that there are more than 5,000 data processing companies worldwide relying on a vast array of open datasets published by government agencies and non-governmental organizations⁴ (Moore, 2016) in combination

³ Moore, S. (2016, June 8). How to Choose a Data Broker.

⁴ How to Choose a Data Broker. Moore, S. (2016, June 8).

with their proprietary datasets and algorithms to enrich publicly available data.

These range from specialised boutiques, such as CB Insights, Fico, Intelius, etc. to large global consultancies such as McKinsey, Deloitte, PWC. It is estimated that 75 percent of analytics solutions will incorporate at least ten or more data sources from second-party partners or third-party providers by 2019⁵.

It is expected that Data Processors will make up the majority of Data Buyers on the DataBroker DAO platform.

Network Operators

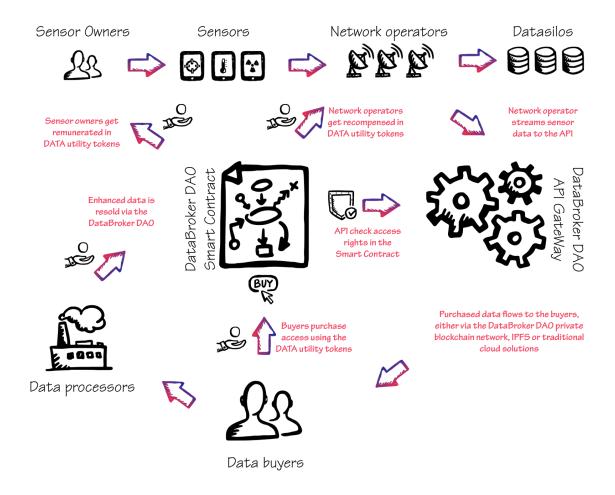
The data emitted by the billions of devices deployed globally flow across a wireless sensor network (WSN) operated generally (but not exclusively) by large telecommunications companies in each country. This may be a traditional GSM network, a LORA network or an alternative such as SigFox.

The key role of Network Operators in DataBroker DAO is to expose the gateway they operate to enable sensor owners to sell their data on the platform.

The diagram below demonstrates how these stakeholders interact in DataBroker DAO.

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⁵ How to Choose a Data Broker. Moore, S. (2016, June 8).



Who "wins" in this story?

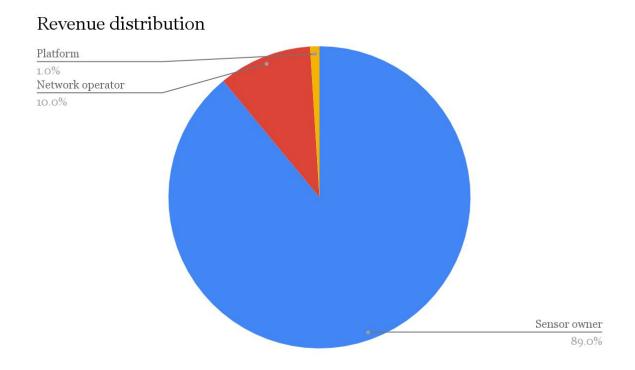
Sensor owners (data providers) are able to directly monetise their data to generate passive income that will turn a sunk cost into a potential money maker and at least the opportunity to recoup some of their investments in IoT sensors (purchase, installation, maintenance, software licenses to interpret the sensor data). A sensor owner will earn 89% of the amounts received.

Data buyers and data processors get data as a service so do not need to make the upfront investment in hardware to get the data they require. Another advantage for both buyer types is that DataBroker DAO provides access to data that would otherwise be trapped in the data silos of sensor owners.

Network providers: gain scale and speed in the adoption of their network as the telecom connected to DataBroker DAO can present a win-back to their enterprise accounts, a clear USP. They create new monthly plans for sensor

owners which represent an entirely new revenue stream. These network operators are the gateway through which the data flows to the DAO, and as such, they are also paid out immediately for each sale in the platform and will receive 10% of the fee.

The DAO takes the remaining 1% of all funds received on the platform to cover operating costs.

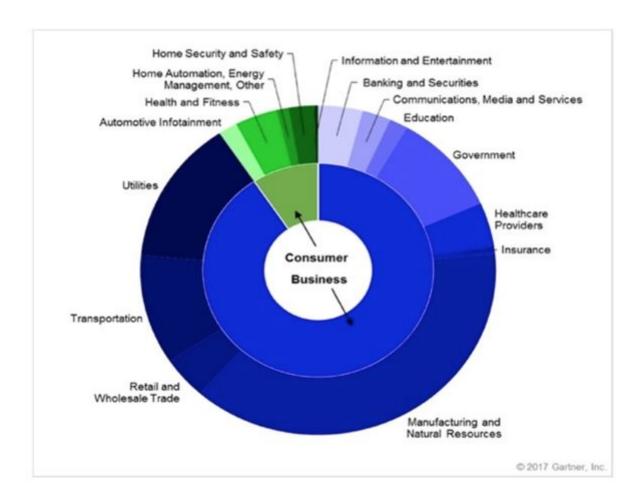


Who "loses" in this story?

Sensor manufacturers: potentially fewer hardware sales, however, hardware margins are in a "race to the bottom" and are already razor thin. Sensor providers already make most of their money via software and services. From this perspective, the producer can pull resources and capital out of unprofitable hardware manufacturing and allocate these to successful SaaS offerings. From our discussions with manufacturers, they are very enthusiastic about this prospect.

Who will sell data?

There are a number of data sellers identified and the overview of the sectors already investing in sensors from Gartner highlights the key potential sellers of data for the years to come. The diagram below identifies the 2 groups (business, consumer) and the sub- groups that constitute each. It is clear that the business group is the main driving force in sensor deployment globally.



The business group is led by the following sectors:

Manufacturing and Natural Resources: the so-called industrial IoT consists of companies that are deploying sensors in order to improve operations. Their primary purpose for deploying sensors is to improve the efficiency of operations to reduce their cost base. DataBroker DAO presents the opportunity to sell selected data that will not reveal to competitors specifics of their manufacturing process.

Transportation: the data for transportation consists of both traffic and vehicle specific data. Traffic data includes for instance congestion and for instance data for shipping of goods like temperature sensors in food shipping containers. This also includes sensors for managing public transportation such

as trains and busses. Vehicle specific data includes a wide array of sensors in cars and trucks both personally owned vehicles and fleets measuring everything from CO₂ emissions to speed to preventative maintenance.

Utilities and Government: Utility providers deploy sensors for "smart" utilities en-masse to deliver more efficient utility services to their clients including smart grids and smart meters primarily for electricity and water. Government sensors are also wide ranging including everything from water level sensors to detect flooding, air quality monitoring to smart street lights.

In addition to these sellers which represent the bulk of currently deployed sensors, we identify 2 additional growth areas in the coming years:

Smart City Initiatives: a roadblock for getting smart city initiatives off the ground is the upfront cost of populating the town with sufficient sensors to be meaningful. The DataBroker DAO platform provides a means to turn what is today a sunk cost and a perpetual maintenance expense into an investment with a 2-3 year payback period and a continuous income stream after that.

Agricultural sector: in Belgium today, 10% of farmers are "techie". They have a drone flying around and 5-20 sensors deployed and some other automation in place. The sensors include for instance wind, temperature, barometric pressure, humidity, PH level in the soil. They use these to manage their farm and spend between 10-50k euro per year, and DataBroker DAO will provide the possibility to recoup some of this cost.

Who will buy data?

Any company looking to commercialise a product that is data driven is provided with the opportunity to develop the product without having to invest in the hardware. The potential buyers are extremely broad.

From the agricultural example above, two potential buyers jump out:

 with > 1000 temperature sensors from nearly all regions of the country, the data is more accurate and granular than the national weather service. They are a potential buyer as are tv and radio stations who, by buying data directly on the marketplace, cut out the national weather service in their purchase from the farmers. with >1000 PH level sensors covering most parts of the country, fertiliser companies would view this as a "honeypot" for their sales people.

In short

The stakeholders in the IoT space have a lot to gain:

- Sensor owners can monetize their data and turn a sunk cost into a
 potential money maker and at least the opportunity to recoup some of
 their investments in IoT sensors.
- Network operators gain scale and speed in the adoption of their network as connected telcos can present a win-back to their enterprise accounts, a clear USP.
- Sensor manufacturers can stop the "race to the bottom" for production and pull resources and capital out of manufacturing and allocate these to more successful SaaS offerings.

At the same time, the new types of buyers have unprecedented access to data and options to monetize their own data:

- Smart City Initiatives can limit the upfront cost of populating the town with sufficient sensors and turn the expense into an investment with a 2–3 year payback period and a continuous income stream after that.
- Academics get access to the data from thousands of sensors and can buy data directly on the marketplace. This will result in a boost in the number of potential spin outs from academia as projects no longer have as high startup costs associated with buying and deploying a network of sensors.
- Data processors (brokers) are presented with a vast array of additional data to be enriched and sold to their customers.

Obstacle to success

The biggest obstacle to the success of DataBroker DAO and the full valorisation of IoT sensor data is on the supply side of the equation. That is the

adoption of the marketplace by data sensor owners who are generating data. DataBroker DAO enables sensor owners to sell their data directly to interested 3rd party data consumers and are thus provided with the opportunity to recoup their sunk costs for IoT sensor hardware and software (>600 billion USD today) incentivising them to provide access to their proprietary data.

Completeness of DataBroker DAO

In it's 2016 report⁶, McKinsey identifies 6 key pillars to the construction of an IoT sensor data marketplace.

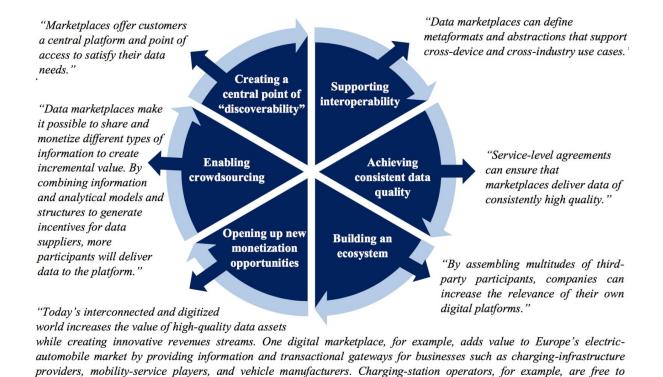


Figure 3: Own Figure based on Six key enablers (McKinsey - 2016)

Below is an assessment of the current beta version of DataBroker DAO based on these 6 pillars:

determine their own pricing structures based on data available about customer habits and market trends.'

• Creating a central point of "discoverability": the DAO pulls together data that is otherwise locked in organisational silos controlled by the sensor owners.

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⁶ Johannes Deichmann, K. H. (2016, October). *Creating a successful Internet of Things data marketplace*.

- Supporting interoperability: the DAO defines standard metaformats for data descriptions and will integrate several processes to bring actual data into standardised formats in the next iteration of the platform.
- Achieving consistent data quality: data streams come directly from the gateway so there is no point in the process that is open to manipulation of data. In the next iteration of the platform, a reputation system that allows data buyers to provide feedback on data quality will be added to further enhance the controls on data quality.
- Building an ecosystem: the DAO brings the stakeholders in the IoT sensor data market together. It is the foundational layer of the ecosystem.
- Opening up new monetization opportunities: Sensor owners are incentivised through direct remuneration from data buyers. In a future iteration, the platform will introduce additional data enrichment and display options that service providers can monetise through the platform. The roadmap includes graphical packages from mapping to charts.
- Enabling crowdsourcing: Sensor data is crowd-sourced directly from sensor owners.

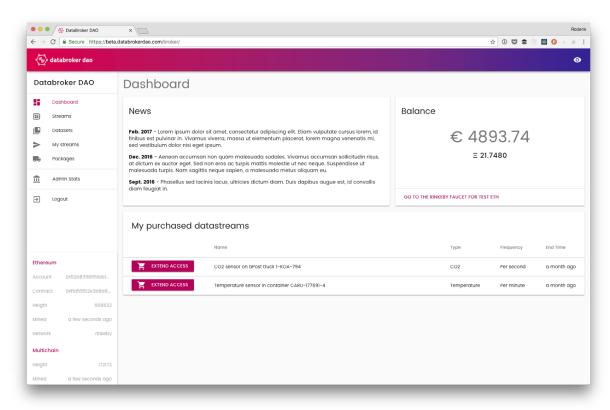
The proof is in the pudding

Check out the beta version at https://beta.databrokerdao.com

The past few months the team has been hard at work to build the complete working platform. Leading up to the token sale we will open-source more and more of the code underlying the platform.

The core features of the platform are:

Wallet functionality

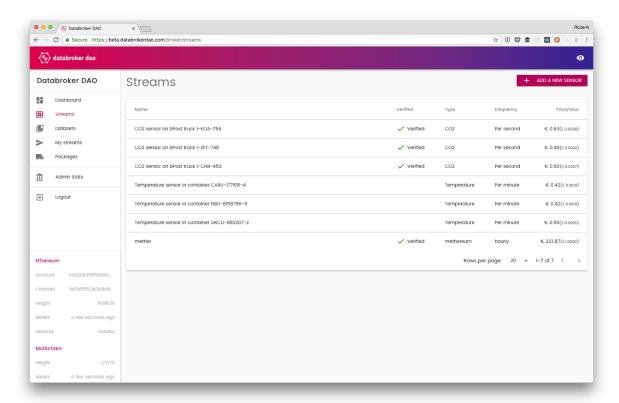


The platform will interact with normal Ethereum addresses and MultiSig contracts for its core functionalities. Currently we do not integrate with any services, but for a public network deploy we would integrate with services like Shapeshift and exchanges to make the flow from fiat/crypto currencies to and from the DATA token as easy as possible.

The wallet views encourage people to keep their funds in DATA tokens if they expect to use them any time soon and not incur the transaction fees from converting. While this seems a non issue for experiences crypto traders, the

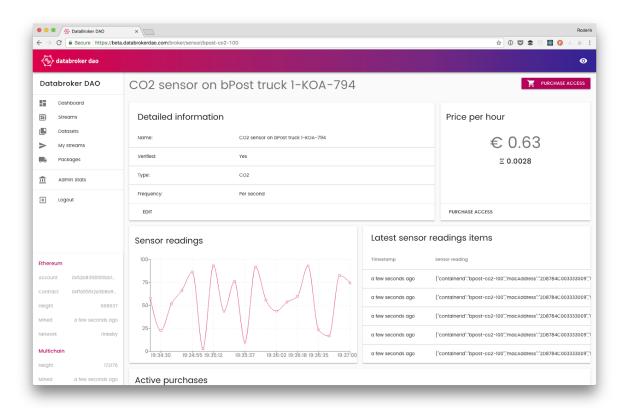
target audience for the token are people and organisations that are currently embedded in a fiat world. Liquidity is a good thing, but value stored in the token itself is important as well.

Sensor data stream listings



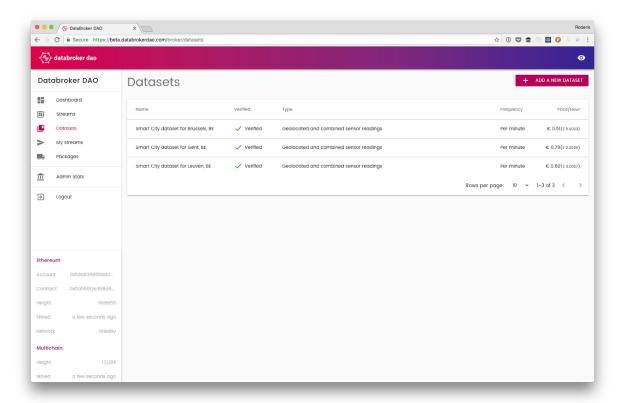
Sensors are being listed in the application for discovery of data. The current implementation is by design rudimentary and not built for billions of sensors. We were focusing on proving the platform and the implementation of discoverability, curation and reputation on a scale of billions of sensors is a monumental feat (e.g. the iOS app store). In the roadmap we have set aside time to build on this base and develop a solution at scale.

Sensor details



The main object in this ecosystem in the sensor itself. The detail pages give all information needed to determine if a sensor is what the buyer is looking for. Depending on the type of sensor these pages might be extended with cards containing geolocation information, reputation scoring, comments, similar sensors and more.

Dataset listings



A lot of the added value in sensors only comes after analysing, aggregating and enhancing the data streams from sensors. The datasets in the platform function like a tertiary market where sensor buyers can do all kinds of smart things with the data, and resell them in easily consumed datasets.

The DATA token

The DATA token is a utility token in the Databroker DAO platform. The DATA token is a ERC20 compliant token with 18 decimals. The token will serve as the credits to buy and sell sensor data within the platform.

Using a token over fiat or ETH allows us to use the divisibility that is needed to operate micro transactions in a market with over half a trillion individual devices that produce data in the range of every second.

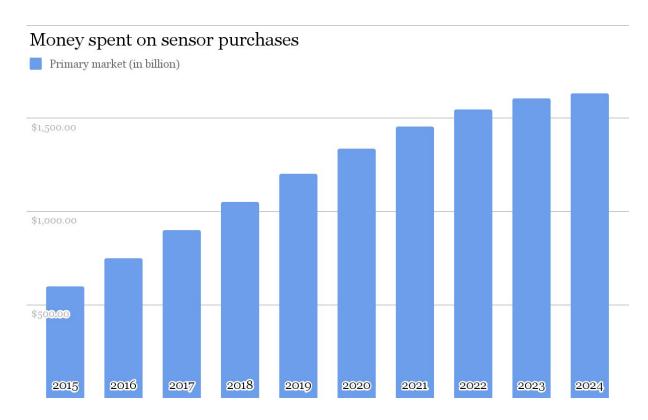
Having this abstraction layer on top of ETH also prevents the token to be subject to the large fluctuations of the ETH price. The volatility of the DATA token will be more limited and can be controlled in a limited fashion with some market making using reserved funds and tokens.

Apart from the initial use in the platform, the token is based upon the MiniMe standard that allows us to migrate in the future to a token with more capabilities. In the roadmap you will find that we are actively exploring using it for e.g. governance.

Size of the market

To determine the market potential and future worth of the token we need to look deeper at the potential market for IoT data.

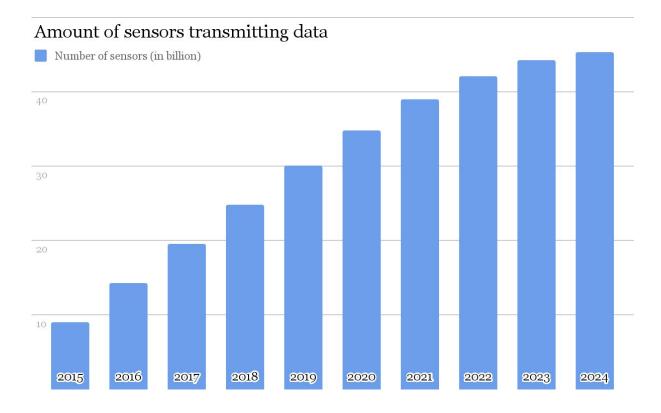
The market size of the primary market for IoT sensors grew from a 600 billion euro in 2015, to a staggering 900 billion in 2017. The market is projected to reach 1.3 trillion in 2020⁷ and up to 1.6 trillion in 2024.



These numbers translate to 9 billion sensors in 2015, to 19 billion in 2017, 34 billion in 2020⁸ up to 45 billion in 2024. A staggering amount.

⁷ State of the Market: Internet of Things 2016, Verizon

⁸ State of the Market: Internet of Things 2016, Verizon



An important distinction about DataBroker DAO's potential market size is that we are not looking for the size of the sensor market itself, but the market for the data they emit. Sensor owners purchase sensors for primary usage because they believe that what they can do with the data is more valuable than the cost of acquiring, deploying and maintaining the sensors.

The market for sensors does however provide a clear indication of the amount of data that is available for sale today and in the years to come. Estimating the market size for the data is then a function of estimating the demand for the available data.

We are cautious with our estimates of the potential market size for this data. In our economic models, we use the assumption that the value of the IoT data market is only 30% of the primary market value. This assumption translates into a market potential in 2017 of 270 billion USD, growing to 500 billion USD in 2024.

Again, to err on the side of caution, we factor in an adoption rate of DataBroker DAO by Sensor Owners of 0.5 percent in 2024. Half a percent of the 45 billion sensors in 2024 amounts to 225 million sensors connected to

DataBroker DAO generating 2.5 billion USD in yearly transactions on the platform.

To put the 2.5 billion USD value into context, the Data Processing and Brokering market is estimated to generate 150 billion USD today in revenues⁹ and is expected to double in the next 4 years. DataBroker DAO will provide a new source of data supporting the further growth of this market with previously unaccessible and/or costly data.

We can draw a useful parallel comparison to the financial sector where publicly traded companies produce their annual statements for statutory reporting to regulators and shareholders (primary purpose). On the back of the pile of data generated, a whole host of companies, like Thomson-Reuters, FactSet and Interactive Data emerged to aggregate the data adding a layer of professional and consulting services on top. In doing so, they leverage the data produced for primary purposes (reporting to regulators and shareholders) to create an entirely new business and a host of value added services by leveraging the data.

Initial value of the DATA token

The goal is to have 1 DATA token covers the average value of the data from a sensor for one week. This allows us enough granularity (at 18 decimals) to work with micropayments, even after significant growth and price increases.

We determine the corresponding price per token by looking at the market predictions in the previous section for 2024. At that time we project to have 2.5 billion USD flowing through the platform for 225 million sensors.

The average sensor has a value of ~12 USD per year, ~1 USD per month, or 0,25 USD per week and as such the value of 1 DATA token should equate initially to this number.

We determine the maximum number of tokens issued to be 225 million, the amount of sensors on the platform in 2024.

⁹ Committee on commerce, science and transportation. (2013, December 18). a review of the data broker industry: collection, use, and sale of consumer data for marketing purposes.

Token sale

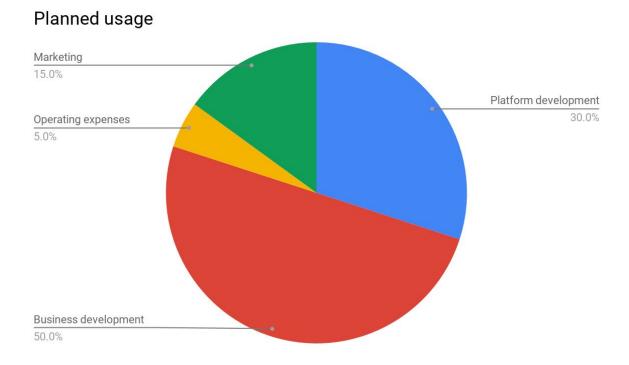
The token sale is split up in three phases. These phases include realistic targets to build and more importantly grow the platform over the next years.

The baseline as described above is a platform with a functional beta version built, market tested across the globe the last few months and with significant interest from both suppliers and consumers of data.

Early token sale

The goal of this early token sale is to bring the platform up to v1.0 readiness, and more importantly onboard a sizeable group of both consumers and suppliers of data.

The proceeds of the early token sale will be spent on growing the team to 8-10 people ranging from business developers, community and development profiles. Additional spending will be allocated to operational costs like infrastructure, office space, marketing and legal expenses.



During this early token sale we will be offering 5% of the tokens (11.2500.00) at a rate of 1200 tokens per ETH (a 20% bonus compared to the main sale).

We will allow overfunding of this goal to a maximum 15% of the tokens, allowing Databroker DAO to grow faster in preparation of the main token sale.

The early token sale starts on September 18st, 2017 at 10:00 CET and will run for 4 weeks unless the 15% hard cap is reached.

Unsold tokens will be sold in the main token sale.

During the early token sale, a referral system is in effect. Contributions via a referral link will result in a bonus of 5% of the tokens sold via a referral link. These tokens are part of the platforms reserve and do not increase or affect the total amount of tokens, nor the maximum amount of tokens offered.

Main token sale

The next phase for the platform will be global expansion and additional service offerings. Most of the funds will go into the business development to onboard the estimated amounts of sensors, network operators and consumers.

During the main token sale we will be offering a maximum of 60% of the tokens (minus the overfunded token percentage sold in the early token sale) at a rate of 1.000 tokens per ETH.

While these dates are flexible, we estimate to move into this phase some 6 to 8 months after the early token sale closes.

Again the referral system will be in effect. Contributions via a referral link will result in a bonus of 5% of the tokens sold via a referral link. These tokens are part of the platforms reserve and do not increase or affect the total amount of tokens, nor the maximum amount of tokens offered.

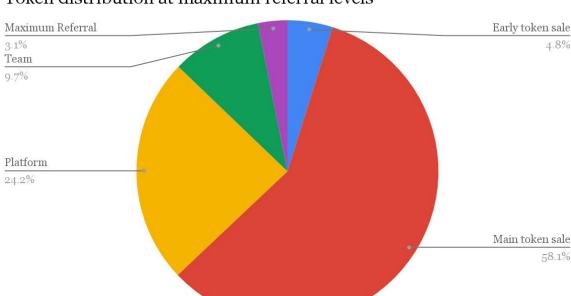
Reserved tokens and ETH

The platform will retain 25% of all tokens, minus all tokens needed for the referral scheme, plus all unsold tokens.

The purpose of these tokens is twofold. On the one hand, a reserve of tokens allows for follow-up sales to accelerate growth and allows the platform to do some limited market making. Crucial since the liquidity of a utility token is

paramount in the functioning of the platform. At the same time, some of the raised ETH will also be kept in reserve for these market making purposes.

An additional 10 percent of the tokens are reserved for the team fund. The majority of the team fund will be distributed to team members joining the platform and will be vested in stages over 3 years, and the unvested tokens return to the fund in case the team member leaves the team. The rest is distributed to current team members and advisors.



Token distribution at maximum referral levels

ETH price fluctuations.

All numbers in this white paper will be recalculated with a market value of ETH before the start of each sale period.

ETH raised is hedged over a basket of other crypto, fiat currencies and traditional low-risk financial instruments to minimise the effect of price fluctuations. This hedging might occur even during the sale events.

Technical roadmap

Network operator integrations

The main road to mass adoption is integrating with network operators that enable the onboarding of millions of sensors in one go. The DataBroker DAO platform will be integrated with the gateways of these network operators.

We will be working on both common standards and libraries to ease integration, and perform the initial integrations for the first operators to join.

Discovery, reputation and curation

Having billions of sensors on a platform is great from a supply perspective, but it makes discoverability of just the sensors you need difficult. Significant work will go into solving just that by looking at innovative ways to cater to users needs and providing user friendly filtering and search capabilities.

The quality of the data is a similar challenge, where we need to look for ways to evaluate and score the trustworthiness of the data. Using a combination of statistical and reputation tools combined with human curation.

Data enhancement integrations

Having easy access to large amounts of data opens up a wealth of options for many startups across the globe. Enhancement and aggregation will provide even more valuable data than the raw data itself.

The team will look for, and work with partners to provide valuable services based on the raw data by providing libraries and integrations for commonly used tools. Integration with AI tools (like provided by the large cloud providers, or Tensorflow) come to mind.

DAO governance

The "DAO" in the DataBroker DAO name is not a marketing ploy. We believe that a platform at such a crucial crossroads between IoT and blockchain, with a global and wide variety of involved parties, will need a non traditional governance model.

Though the community has learned a lot since initial DAO governance experiments, there is still a long way to go. Especially since a lot of the partners in this ecosystem are more enterprise minded at this time.

At this point in time we decided that best practices and adoption in this model is still a moving target and we will focus on working together with the community and industry to try and determining a working model for all parties involved.

The distributed stack

DataBroker DAO has been built to be production ready in 2017. Since it's inception early 2017, there has been a flood of interesting new and distributed projects that we all hope come into fruition the next few years.

As a best practice, the team is constantly evaluating these solutions and we plan to integrate the ones that help DataBroker forward or provide some sort of network effect that enhances the current offering.

A non exhaustive list of these potential integrations are the governance tools of Aragon, IOTA and Acorn as a network operators, and direct integrations with traditional (Shapeshift) and distributed token exchanges like Omega One.

At the same time there are several competing standards for identity management are in development (e.g. uPort) but none of them have enough market share or adoption yet to make it feasible to use them.

The team

Some history

The DataBroker DAO was conceptualised at SettleMint in late 2016. The dynamics of the market and the opportunities it brings immediately sparked the development of the first proof of concepts.

After the first beta was completed in February, it has been on the road to tradeshows, pitch competitions and blockchain challenges across the world to test its market viability. We have demoed the platform in London, Dublin, Berlin, Singapore, Dubai, Jeddah, Salt Lake City, New York, Paris and Tokyo. The result was astounding, people love the idea and the product, and interest from manufacturers and network operators has been encouraging.

In June, the decision was made that the project itself has too much potential to not run with a dedicated team and that a token sale was better suited to the project than traditional VC rounds.

About SettleMint

SettleMint is a Belgian based startup focussed on creating tools to make building blockchain applications easy by any IT team.

All the work and R&D is encapsulated in a distributed middleware called Mint which consists of 4 SDK. Notary, which deals with anything related to recording information on blockchain, but also IPFS and swarm. Provenance for supply chain tracking. Ballot box for voting and last but not least Marketplaces for functionality ranging from tokens to exchanges of digitally traded products. All the while supporting a wide range of public and private blockchain solutions like Ethereum, Bitcoin, Multichain, BigchainDB and the Hyperledger projects.

Mint is used in the DataBroker DAO. The marketplaces SDK and smart contract templates are used for the marketplace part of the project, while the Notary SDK is used in the archiving and sharing of the dat part of the project. A yearly licence fee will be payed out of the revenue of the platform as compensation.

Teammembers



Matthew Van Niekerk

Born and raised in Canada with Dutch roots, Matthew moved to Japan after completing his economics degree. In Japan he founded and subsequently exited two companies. Moving on to get an MBA in Belgium, he joined a large financial institution, performing a variety of roles ranging from COO of the consumer finance business line to head of platform innovation for the brokerage and crowdfunding platform. In 2016, he left the bank and co-founded SettleMint.



Roderik van der Veer

Born in The Netherlands and raised in Belgium, Roderik has always been fascinated by technology. After building one of the largest ecommerce computer store sites in Belgium in 1999, he worked in the IT development sector and as CTO grew a traditional marketing agency into a digital powerhouse. He exited this business to focus on blockchain technologies when he co-founded SettleMint in 2016.



Els Meyvaert

As the only born and raised Belgian and after getting an degree in communication, Els worked as account manager in various financial institutions until she moved back to her first love, communication. As account director, she handled communication for the largest FMCG group in Belgium before joining SettleMint.



Dylan Damsma

The most recent addition to the team, who also happens to be from The Netherlands, has built up extensive experience in digital marketing and growth marketing working as Marketing technologist at Mindvalley, Customer Success Manager at AutopilotHQ and besides that launching a successful crypto community named "Cryptominded".

Advisors

Expert advisors in telecommunications, IoT device manufacturing, smart cities, cryptography and smart contracts are currently reviewing the whitepaper and the underlying smart contracts for DataBroker DAO. When their input is collected and added to the whitepaper, they will be listed here. If you have expertise in one of these domains and are interested in joining the review process, please contact us at hello@databrokerdao.com.

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