

# Edge Computing meets Web3: An Introduction to Ocean Protocol

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[oceanprotocol.com](https://oceanprotocol.com)

@trentmc0

slides: [trent.st/content/eve.pdf](https://trent.st/content/eve.pdf)

# Outline

- Intro to Ocean
  - Basics
  - Ocean Market
  - Ocean Ecosystem
- Ocean and Edge Computing: Compute-to-Data
- EVE \* Ocean Opportunities



ocean

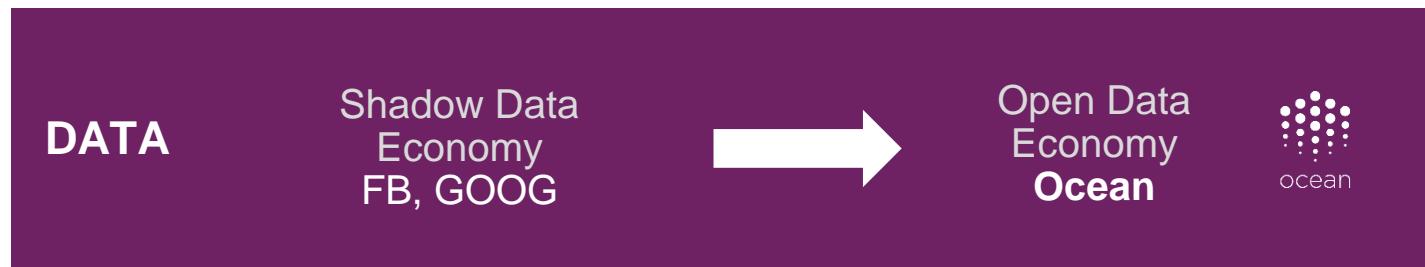


# Intro to Ocean: Basics



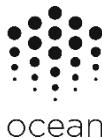
# Ocean Mission: open up data, while maintaining privacy

Towards self-sovereign data for individuals and groups.



*Data is a \$400B industry  
in Europe alone*

*How: Use crypto tools to  
make data an asset class*



# What is Ocean Protocol?

Ocean is...

1. **A community / ecosystem** of individuals and orgs driving to the mission (initiated by Ocean Protocol Foundation)
2. **A set of tools** as public infrastructure to facilitate the mission
3. **A token** (OCEAN) with incentives to grow & sustain the ecosystem



# Ocean Tools: How

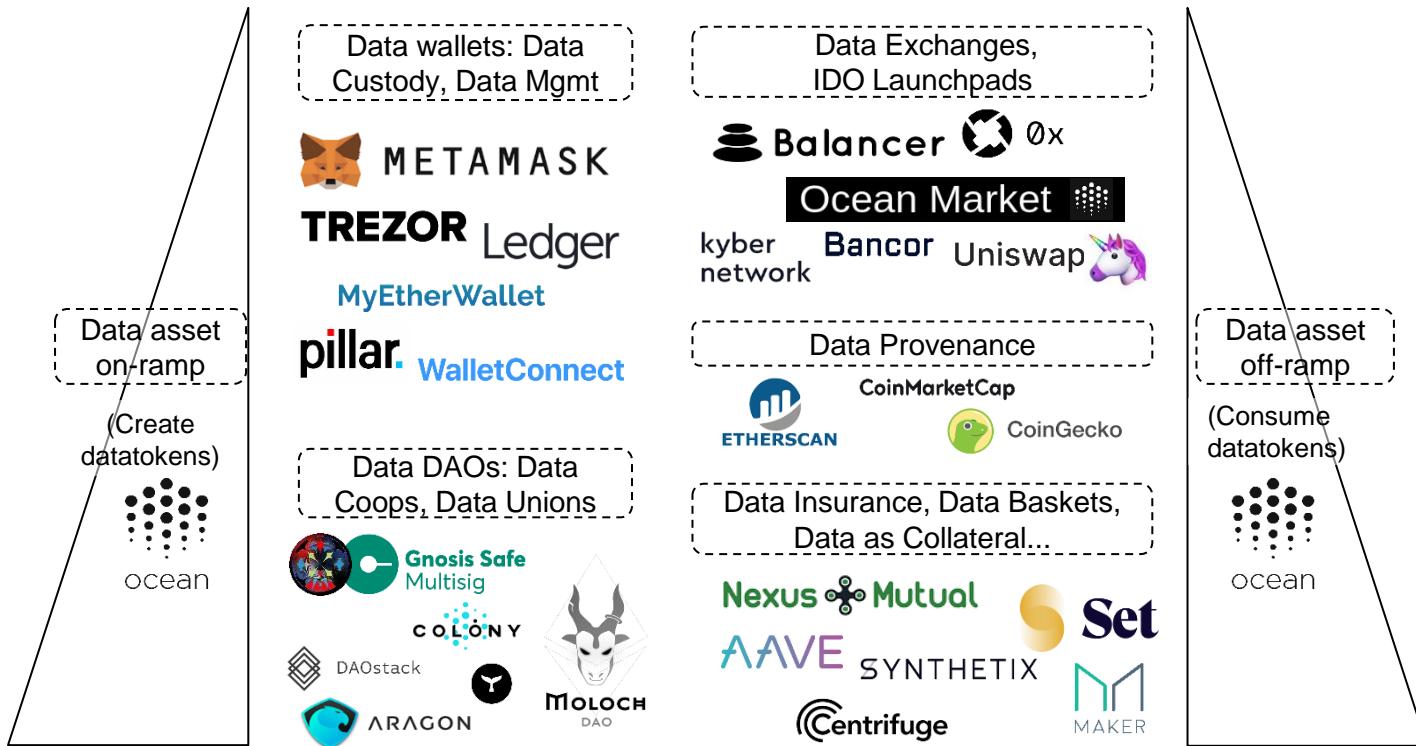
- **Datatokens** - tokenized access control
- **Ocean Market** - a data exchange webapp
- **Deployed to >1 chains** - Eth mainnet, Polygon, Moonriver, ..
- **Edge computing (Compute-to-Data)** - preserve privacy, etc



ocean

# Ocean Datatokens

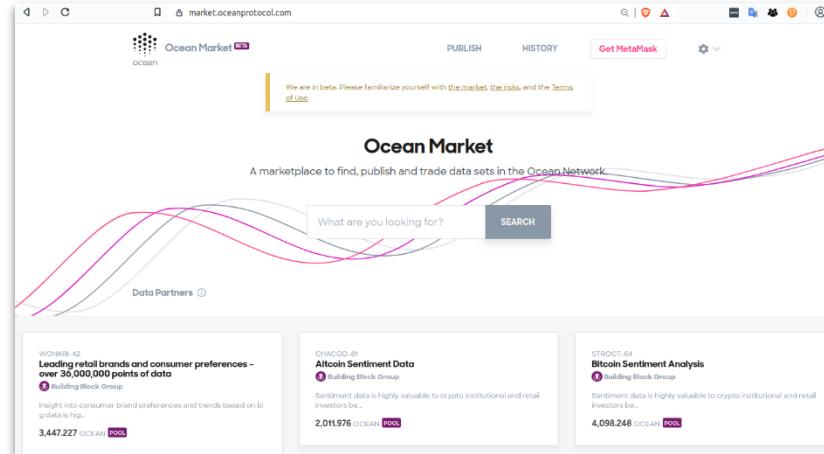
Ocean makes it easy to publish data services (deploy and mint ERC20 datatokens), and to consume data services (spend datatokens). Crypto wallets, exchanges, and DAOs become *data wallets*, exchanges, and DAOs.

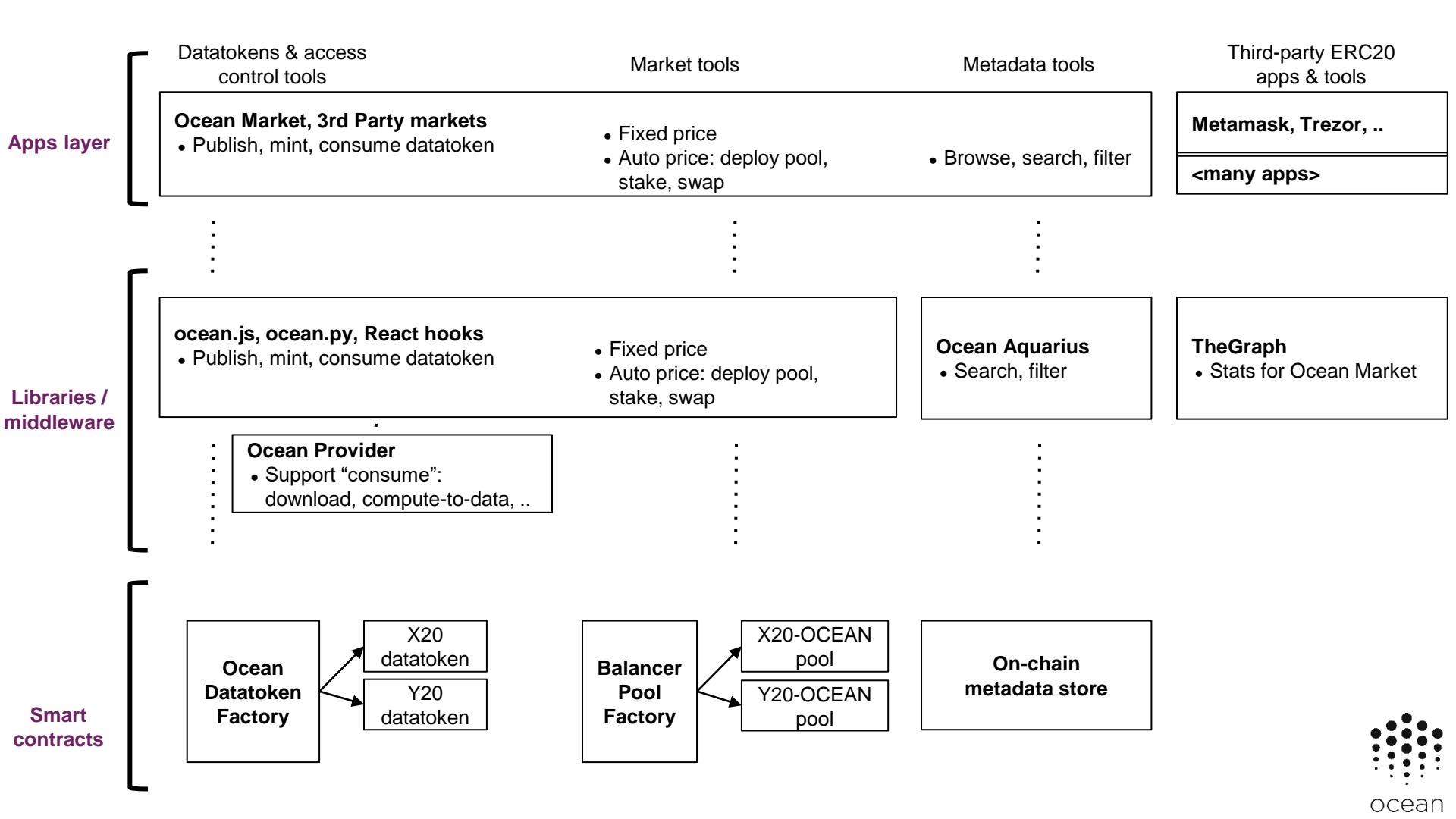


# Ocean Market

market.oceanprotocol.com

- It's a decentralized exchange (DEX), tuned for data.
- Webapp + datatokens + AMMs (Balancer)
- Actions:
  - publish data
  - buy & sell data
  - consume data
  - stake on data (curate)







# Intro to Ocean: Ocean Market

# Ocean Market: Splash Page

The screenshot shows the Ocean Market splash page at market.oceanprotocol.com. The page features a large, stylized wavy graphic in the background. On the left side, there's a sidebar with the text "Bookmarks" and "Your bookmarks will appear here." Below this, under "Highest Liquidity", are three cards representing different datasets:

- QUICRA-0**  
DataUnion.app - Image & Annotation Vault  
DataUnion.app
- LUMSTA-42**  
Product Pages of 1'044'709 Products on Amazon.com (pro...  
Innovation Atelier SA
- EXCANE-93**  
EVO/2MP/TRFC/DE/200K Weekly Collector  
Evotegra GmbH

At the bottom of each card, it says "210.354 OCEAN POOL" and "82,862.46 OCEAN POOL" respectively. The rightmost card also includes "1,511.099 OCEAN POOL". The top of the page has a navigation bar with links for PUBLISH and PROFILE, a search bar, and a status message "Reconnecting...".



# Ocean Market: Publish Flow, for an Initial Data Offering

The screenshot shows the first step of the publish flow on the Ocean Market platform. It features a clean, modern design with a white background and light gray accents. At the top right is a large blue "PUBLISH" button. On the left, there's a small logo and the text "Ocean Market BETA". Below the main title "Publish" is a sub-instruction: "Highlight the important features of your data set to make it more discoverable and catch the interest of data consumers." A note below states: "Given the beta status, publishing on Rinkeby first is strongly recommended. Please familiarize yourself with the [market](#), the [risks](#), and the [Terms of Use](#)." The form itself includes fields for "Title\*", "Description\*", "File\*", "Sample file", and "Access Type\*". Each field has a placeholder and a brief explanatory text below it.

**PUBLISH**

**Publish**

Highlight the important features of your data set to make it more discoverable and catch the interest of data consumers.

Given the beta status, publishing on Rinkeby first is strongly recommended. Please familiarize yourself with the [market](#), the [risks](#), and the [Terms of Use](#).

**Title\***  
e.g. Shapes of Desert Plants

Enter a concise title.

**Description\***

Add a thorough description with as much detail as possible. You can use [Markdown](#).

**File\***  
e.g. <https://file.com/file.json>

Please provide a URL to your data set file. This URL will be stored encrypted after publishing.

**Sample file**  
e.g. <https://file.com/samplefile.json>

Please provide a URL to a sample of your data set file. This file should reveal the data structure of your data set, e.g. by including the header and one line of a CSV file. This file URL will be publicly available after publishing.

**Access Type\***

This screenshot shows the continuation of the publish flow. It includes sections for "Access Type\*", "Datatoken Name & Symbol\*", "Author\*", "Tags", and "Terms & Conditions". The "Access Type\*" section contains a dropdown menu with the option "---". The "Datatoken Name & Symbol\*" section has a placeholder "- C". The "Author\*" section has a placeholder "e.g. Jelly McJellyfish". The "Tags" section has a placeholder "e.g. logistics, ai". The "Terms & Conditions" section displays the full legal text of the Ocean Marketplace Terms and Conditions. At the bottom, there's a checkbox for "I agree to these Terms and Conditions" and two buttons: "SUBMIT" and "RESET FORM".

Please provide a URL to a sample of your data set file. This file should reveal the data structure of your data set, e.g. by including the header and one line of a CSV file. This file URL will be publicly available after publishing.

**Access Type\***

---

Choose how you want your files to be accessible for the specified price.

**Datatoken Name & Symbol\***

- C

The datatoken for this data set will be created with this name & symbol.

**Author\***

e.g. Jelly McJellyfish

Give proper attribution for your data set.

**Tags**

e.g. logistics, ai

Separate tags with comma.

**Terms & Conditions\***

Ocean Marketplace Terms and Conditions (this "Agreement") is made and entered into by and between Ocean Protocol Foundation Ltd., with office at The Commerce @ Irving, 1 Irving Place, #08-11, Singapore, 369546 Singapore ("Ocean") and the legal entity set forth in the Account Information ("Customer"). It governs Customer's access to and use of the Ocean Marketplace (as defined below) and takes effect on the date of its acceptance by Customer (the "Effective Date"). Customer represents being lawfully able to enter into contracts and having legal authority to bind Customer's entity.

**DEFINITIONS**

"Service" \*\*\* means all websites, software and services offered and operated by

I agree to these Terms and Conditions

**SUBMIT** **RESET FORM**

# Example Data Asset, for Fixed Price

The screenshot shows the Ocean Market interface with a data asset listed for sale.

**Top Navigation:** Ocean Market (Beta), PUBLISH, HISTORY, Get MetaMask, Settings.

**Title:** eBay DATASET - 10 Million Data Points (1,000,000 Product Listings)

**Left Panel (Data Reservoir):**

- Dataset Summary:** Exceptional Whale Token – EXCWHA-70 ↗ Published by 0x98EA\_16E4 — Etherscan ↗
- Logo:** DATA RESERVOIR
- Description:** This dataset has a massive total of over 10 million data points from over 1,000,000 product listings on eBay using the electronics category. This dataset is from the first week of November 2020.
- Update Frequency:** Updated monthly

**Right Panel (Marketplace):**

- Options:** USE, POOL, TRADE
- Price:** 2,639.166 OCEAN POOL = €1,211.94
- Buy Button:** BUY
- Note:** For using this data set, you will buy 1 EXCWHA-70 and immediately spend it back to the publisher and pool.
- Status:** No account connected. Please connect your Web3 wallet.

**Bottom Left (Text):** What's included in the dataset?

The dataset is in xlsx format and each line shows 10 data points with the date & time scraped. The following is included in this dataset:

- \*Seller name
- \*Seller rating
- \*Item category
- \*Item ID

**Bottom Right (Ocean logo):** ocean

# Example Data Asset, with Automatic Price Discovery (via AMM)

The screenshot shows the Ocean Market interface with the following elements:

- Header:** Ocean Market BETA, ocean
- Navigation:** PUBLISH, HISTORY, Get MetaMask, Settings
- Title:** 🐬 AtlantisStream.io - Realtime Consumer Data Streams
- Thumbnail:** A graph showing two overlapping bell curves, one pink and one grey.
- Dataset Details:**
  - Name:** Atlantis Streams
  - Token:** Meretricious Manatee Token – MERMAN-13
  - Published by:** 0x4f40\_50B3 — Etherscan
  - Description:** Atlantis Stream is a crowdsourced dataset of real-time consumer data streams.
  - Notice (11/17/2020):** Atlantis Stream is currently pre-alpha, and will be migrating to compute-to-data when it becomes available. Stay up to date on any of our official channels below:
  - Official Channels:** Website, Newsletter, Telegram, Twitter, Discord, Github
  - Business Inquiries:** Contact our founder, Email us at [team@atlantisstream.io](mailto:team@atlantisstream.io)
  - How it works:** A brief description of the data asset's functionality.
- Price Discovery:** A modal window titled "USE" shows:
  - OCEAN POOL:** 289.698 OCEAN POOL = €132.88
  - BUY:** A button to purchase the data asset.
  - Note:** For using this data set, you will buy 1 MERMAN-13 and immediately spend it back to the publisher and pool.
  - No account connected:** A message prompting the user to connect their Web3 wallet.



# Example Data Asset: A Data Union

The screenshot shows the Ocean Market BETA interface. At the top, there is a navigation bar with the Ocean logo, "Ocean Market BETA", "PUBLISH", "HISTORY", a "Connect Wallet" button, and a settings icon.

## Swash - Consumer Browsing Data

**SwashData Tech Oy**

Tasty Lobster Token – TASLOB-45 ↗  
Published by  **SwashData Tech Oy** — Home ↗ Twitter ↗ Etherscan ↗

Swash is creating the world's first **Data Union**. It crowdsources users' surfing data through a browser plugin (available on Chrome, Firefox, Brave, Edge, and more) and shares profits with users. This lets Swash provide data buyers with unrivaled zero-party consumer data at scale, from all over the web, guaranteeing data quality and user consent. The increasing number of users will grow the value of Swash data assets over time.

**Use cases**

Market intelligence, Consumer insights, E-commerce analytics, AI/ML, and Advertising optimisation

**UPDATE: November 21th 2020:**

- Number of data points: 800K (+100k since last update)
- Data Union members: 1600 (+100 since last update)
- Geo coverage: Worldwide

**USE** **POOL** **TRADE**

**31,958.954 OCEAN POOL**  
= €14,448.80

**BUY**

For using this data set, you will buy 1 TASLOB-45 and immediately spend it back to the publisher and pool.

**No account connected**  
Please connect your Web3 wallet.



# Ocean is multi-chain

[blog.oceanprotocol.com/ocean-makes-multinetwork-even-simpler-c3ec6c0cbd50](https://blog.oceanprotocol.com/ocean-makes-multinetwork-even-simpler-c3ec6c0cbd50)

The screenshot shows the Ocean Market v3 interface on a web browser. The top navigation bar includes links for 'PUBLISH' and 'PROFILE'. A message at the top center reads: 'We are in beta. Please familiarize yourself with [the market](#), [the risks](#), and the [Terms of Use](#).'. The main title 'Ocean Market' is displayed prominently, with the subtitle 'A marketplace to find, publish and trade data sets in the Ocean Network'. On the left, there's a decorative graphic featuring two overlapping bell curves, one pink and one grey, with the text 'Bookmarks' and 'Your bookmarks will appear here.' above it, and 'Highest Liquidity' below it. To the right, three data set cards are shown:

- QUICRA-0**: DataUnion.app - Image & Annotation Vault. Owner: DataUnion.app. Description: Notice This dataset and the software stack behind it are under constant development... Price: 692.868 OCEAN POOL. Token: ETH.
- LUMSTA-42**: Product Pages of 1'044'709 Products on Amazon.com (processed). Owner: Innovation Atelier SA. Description: Result of scraping of Amazon.com product page data over H1 2018, obtained using ne... Price: 83,942.031 OCEAN POOL. Token: ETH.
- EXCANE-93**: EVO/2MP/TRFC/DE/200K Weekly Collector. Owner: Evotegra GmbH. Description: German Traffic Data for Machine Learning ... Price: 1,523.022 OCEAN POOL. Token: ETH.

On the right side of the interface, there is a 'Networks' panel with two sections: 'Main' and 'Test'. The 'Main' section contains checkboxes for ETH (checked), Polygon (checked), and BSC (checked). The 'Test' section contains checkboxes for ETH Ropsten, ETH Rinkeby, Polygon Mumbai, Moonbase Alpha, and GAIA-X Testnet. A large pink arrow points from the bottom right towards the 'Main' networks section. The bottom right corner features the 'ocean' logo.



# Fine-grained permissions

[blog.oceanprotocol.com/fine-grained-permissions-now-supported-in-ocean-protocol-4fe434af24b9](https://blog.oceanprotocol.com/fine-grained-permissions-now-supported-in-ocean-protocol-4fe434af24b9)

How to handle data exchange for

- 🏥 Medical data only for credentialed EU researchers
- 🚗 Selling automotive data within a consortium
- 🇩🇪🇸🇬 Sharing data across offices in a multinational ?

@oceanprotocol fine-grained permissions handles this



Ocean Protocol @oceanprotocol · Sep 22

TECHNICAL UPDATE | Fine-Grained Permissions have now been launched on the Ocean Market that will offer the enterprises and other users more precise ways to specify and manage access. This new update addresses issues of access control along two main levels:

```
graph TD; User -- "1. User requests access to browse/consume/publish" --> Keycloak[Keycloak]; Keycloak -- "3. Request role for Ethereum Address" --> RBAC[RBAC Server]; RBAC -- "4. Response: User role" --> Market[Market]; RBAC -- "2. Request permission" --> Market; Market -- "5. Response: true / false" --> RBAC; Market -- "5. Market access allowed or denied" --> User;
```

5 41 136

The screenshot shows the Ocean Market interface with a dataset titled "Sample Files". It includes sections for "Licensing", "Edit Metadata", "Edit Advanced Settings", "Data Author", "Owner", "DID", "Metadata History", and "Deny ETH Address". A green arrow points to the "Edit Advanced Settings" button. Another green arrow points to the "Deny ETH Address" section, which contains a text input field with an example address and an "ADD" button. A pink arrow points to the "ADD" button in the "Deny ETH Address" section.



# Example Data Asset: Music Samples (from a Platinum-Selling Artist)

The screenshot displays the Ocean Market BETA interface. At the top, there is a navigation bar with the Ocean logo, the text "Ocean Market BETA", and buttons for "PUBLISH", "HISTORY", "Get MetaMask", and settings.

The main content area features a title card for a data asset:

## PVLACE 808 Mafia Melody Compositions / Samples

Denis Berger  
Irksome Cormorant Token – IRKCOR-52 ↗  
Published by 0x65e0...87A0 – Etherscan ↗

You gain exclusive access to a weekly updated folder that already include 15 melody compositions by Multi-Platinum, Billboard #1, BMA & Grammy Nominated Music Producer PVLACE of 808 Mafia.

Productions Credits include following artists Migos, Future, Young Thug, Lil Baby, Rich The Kid and many more for full productions credits check following website: <https://genius.com/artists/Pvlace>

Updates will be made every Friday on 6PM UTC Time and will include 3 more melody compositions

The melodies are royalty-free for everybody purchasing it and can be used for your own compositions. Melody are marked with the specific BPM

For verification of this market listing feel free to reach out on my verified social media profiles. <https://www.instagram.com/pvlace808mafia/> <https://twitter.com/pvlace808mafia>

**Sample Data**  
[DOWNLOAD SAMPLE](#)

Tags: music, compositions, pvlace, 808-mafia, fl-studio, cubase, ableton, music-production

On the right side, there is a modal window titled "html" showing a summary of the purchase:

733.634 OCEAN POOL  
= € 337.18

**BUY**

For using this data set, you will buy 1 IRKCOR-52 and immediately spend it back to the publisher and pool.

No account connected  
Please connect your Web3 wallet.





# Intro to Ocean: Ocean Ecosystem

# Ocean Market: Data Hunters

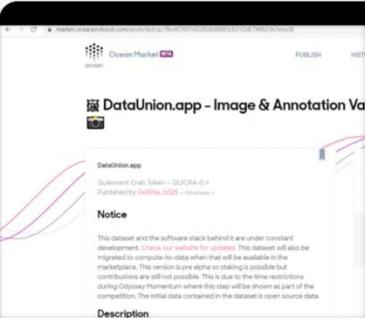
Several startups launched in <1 mo

 **DataUnion.App** @DataunionA · Nov 15

There is a first review on YouTube about the dataset:  
[youtu.be/CtETKKnxfk](https://youtu.be/CtETKKnxfk)

Thank you for that @profit\_ai

#OceanProtocol



 **opendata| Data Brokers** @databrokers1 Follows you

 **datawhale** @realdatawhale · Nov 25

Our proprietary staking rating formula for "Directory" will be based on metrics that don't lie: numbers.

The highest weightage for the rating will be based on number of sales, number of transactions & decentralization.

Our TREPEL-36 sold more than all top pools combined 



**dataapplications**  
Solving the worlds data challenges and creating a better future

 **Datapplications**  
Data applications for you

ive to provide businesses & researchers with high quality, es new market insights, & drives innovation.

20  
Followers



 **DATA RESERVOIR**

treasures  
103E2ef5Ab

**Data Reservoir** @DataReservoir Follows you

Provider of valuable datasets on the Ocean Marketplace.

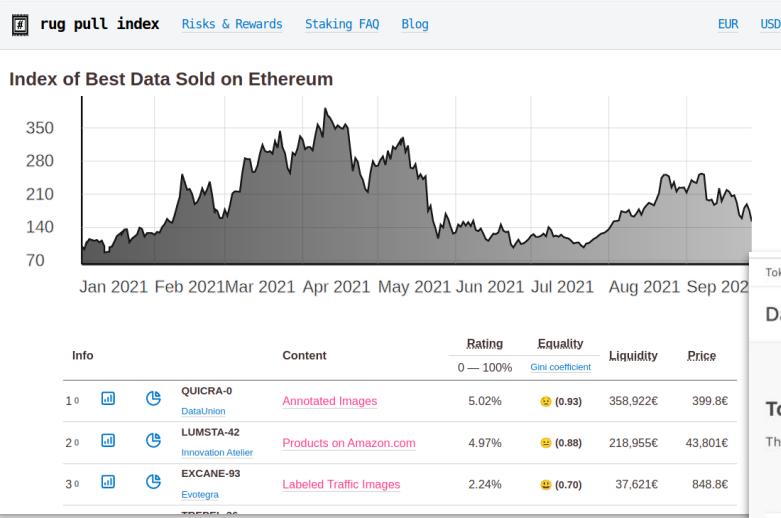
Joined November 2020

70 Following 329 Followers



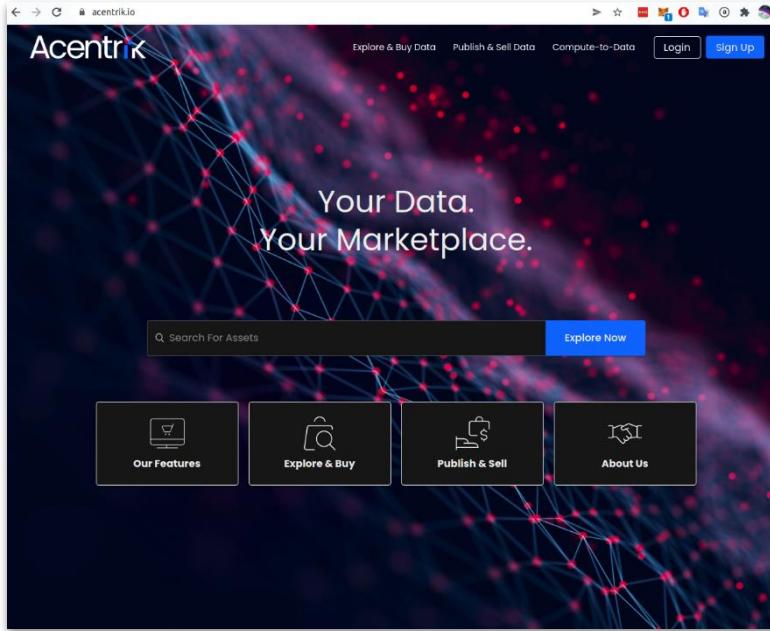
# Ocean Market Data Indexes

## Quality Metrics from the Community, Free & For Sale



# For an *economy*, 1000s of data marketplaces

And the forks have begun:)



A screenshot of the BDP Data Market website. The header includes the BDP logo, 'BDP Data Market', and 'HISTORY' and 'Connect Wallet' buttons. A beta notice states: 'We are in beta. Learn how the Data Market works, ways to earn, and the risks. By connecting your wallet, you agree to our Terms &amp; Conditions and Privacy Policy.' The main title is 'A Web3 Marketplace for Commercially Valuable Data'. Below it is a subtext: 'Use, stake, earn, and trade datatokens from professional data providers.' A search bar with placeholder 'What are you looking for?' and a 'SEARCH' button follows. The page then displays sections for 'Bookmarks' (empty) and 'Highest Liquidity'. Three data products are listed: 1. 'Transactional Data to Analyze &amp; Predict Sales &amp; Subscriptions - W...' (6x891, 1,096B) with a value of '7,713.091 BDP (200)' and a timestamp '3 months ago'. 2. 'ED Corporation Actions - FAANG Stocks' (6x891, 1,096B) with a value of '2,531.18 BDP (200)' and a timestamp 'about 1 month ago'. 3. 'Blockchain Workforce Composition for 1,500+ Companies' (6x891, 1,096B) with a value of '2,403.168 BDP (200)' and a timestamp '8 months ago'. The Ocean logo is in the bottom right corner.

# Riddle & Code: Drive & Stake

Mobility data marketplaces for all participants to access and benefit from vehicle-generated data

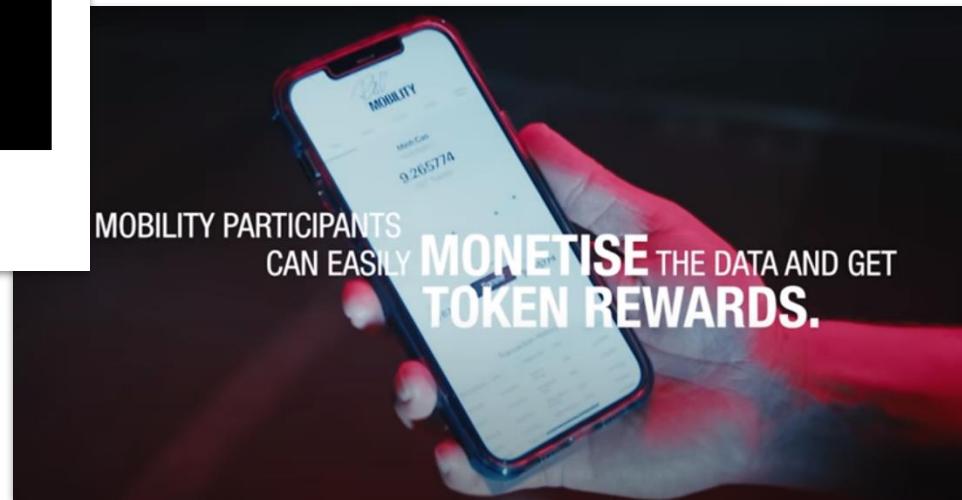
The screenshot shows the homepage of riddleandcode.com. At the top left is the Riddle & Code logo. The main title is "DRIVE&STAKE - DATA TOKENIZATION IN THE MOBILITY SECTOR". Below the title is a paragraph about the company's solution. On the left side, there is a navigation menu with sections for HOME, PLATFORM, CUSTODY, ENERGY, MOBILITY, MATERIALS, COMPANY, ABOUT, MANAGEMENT, SUPERVISORY BOARD, NEWS & EVENTS, PARTNERS, RESEARCH, CAREERS, BLOG, SEARCH, and CONTACT. There are also links for GitHub and social media icons. At the bottom are two buttons: "LET'S TALK" and "PRESS RELEASE".

**DRIVE&STAKE - DATA TOKENIZATION IN THE MOBILITY SECTOR**

RIDDLE&CODE developed Drive&Stake - a decentralised, end-to-end solution for the creation of automated mobility data marketplaces that enables all participants to access and benefit from vehicle-generated data.

LET'S TALK

PRESS RELEASE



# Drive & Stake is Compute-to-Data \* SGX

[blog.oceanprotocol.com/compute-to-data-is-now-available-in-ocean-market-58868be52ef7](https://blog.oceanprotocol.com/compute-to-data-is-now-available-in-ocean-market-58868be52ef7)

Trent McConaghy  
@trentmc0

Did you know that the [@riddleandcode](#) - [@oceanprotocol](#) stack integrates two complementary privacy-preserving technologies?

- Ocean Compute-to-Data (C2D) -> data stays with owner
- Intel SGX -> trusted execution environment

### OUR PARTNERS

**EFS**  
  
ocean

**ELoop**  


**intel.**  


EFS - the leading consultancy in the mobility sector - brings its understanding of how OEMs functions and expertise in determining the strategy leading to the best practical solutions.

Leveraging Ocean protocol that allows businesses and individuals to exchange and monetize data, Drive&Stake overcomes the tradeoff between the benefits of using private data and the risks of exposing it.

Focusing on green mobility solutions & environment, ELOOP, collaborating with RIDDLE&CODE, tests different use cases related to connected EV cars, including CO2 footprint, charging station management and data monetisation.

RIDDLE&CODE utilises Intel Software Guard Extensions (Intel SGX) to deliver the highest level of security for the solution.

**RIDDLE&CODE** @riddleandcode · Nov 2

Drive&Stake, the industry-first marketplace that unlocks vehicle-generated data launches today. Together with [@oceanprotocol](#), [#EFS](#) & [@eloopcarsharing](#), we empower all participants in the mobility ecosystem to share, access & collect tokens for staking vehicle-generated data. 

RIDDLE&CODE  
@riddleandcode

Drive&Stake, the industry-first marketplace that unlocks vehicle-generated data launches today. Together with [@oceanprotocol](#), [#EFS](#) & [@eloopcarsharing](#), we empower all participants in the mobility ecosystem to share, access & collect tokens for staking vehicle-generated data. 



THE MOBILITY SECTOR IS UNDERGOING A PROCESS OF MASSIVE TRANSFORMATION.

2:01 11.7K views

11:04 AM · Nov 2, 2021 · Twitter Web App



# DeltaDAO: Gaia-X Demonstrator

<https://portal.minimal-gaia-x.eu>

The screenshot shows the MVG Portal Demonstrator homepage. It features a header with the Gaia-X logo and navigation links for Publish, History, Bookmarks, Connect Wallet, and a search bar. Below the header, there's a section titled "MVG Portal Demonstrator" with a sub-section "How does it work?". This section includes a brief description of the platform being built on Ocean Protocol, a "TRY THE TUTORIAL" button, and a "Try it yourself" section with a network visualization.

This screenshot focuses on the "How does it work?" section of the MVG Portal Demonstrator. It provides a detailed explanation of how the platform uses Ocean Protocol's trustless, decentralized, and privacy-preserving data sharing feature. It highlights the tradeoff between the benefits of using private data and the risks of exposing it. A "TRY THE TUTORIAL" button is visible at the bottom.

## Recently Published

<a href="#">INCRA-81</a>		<a href="#">DATA SET</a>	
<b>Sensor Data</b>			
Bill Gleem			
Test data for the hackathon			
2 OCEAN			
<a href="#">INSRA-26</a>		<a href="#">DATA SET</a>	
<b>Shady's Brain</b>			
rvb6v8... 28n			
<a href="#">OBSTA-1</a>		<a href="#">DATA SET</a>	
<b>My First Gaia-X Data Set</b>			
obt34... EFB6			

The screenshot shows the "Publish" page of the MVG Portal Demonstrator. It has a header with the Gaia-X logo and navigation links. The main content area is titled "Publish" and contains a sub-section "Highlight the important features of your data set or algorithm to make it more discoverable and catch the interest of data consumers." Below this, there are tabs for "DATA SET" (selected) and "ALGORITHM". A "Publish" button is visible on the right.

The screenshot shows the MVG Catalogue Demonstrator homepage. It features a header with the Gaia-X logo and navigation links. The main content area is titled "MVG Catalogue Demonstrator" with a sub-section "Browse and discover Data and their Self-Descriptions in the Gaia-X Test Network." Below this, there's a section for "18 results" with filters for DATASETS, ALGORITHMS, and CATEGORIES. A table lists 18 datasets and algorithms, each with a thumbnail, title, description, and download link. The table includes columns for SORT, Published, and Ocean count.

<a href="#">Demonstrator Data</a>		<a href="#">A European Data Economy in 2021</a>	
INCRA-81		<a href="#">DATA SET</a>	2 OCEAN
A dataset published through the tutorial			
DETMAC-1		<a href="#">DATA SET</a>	1 OCEAN
<b>Weather forged -- test</b>			
ZEAPEN-90		<a href="#">DATA SET</a>	1 OCEAN
Sensor Data		<a href="#">DATA SET</a>	1 OCEAN
INSRA-26		<a href="#">DATA SET</a>	1 OCEAN
FULL - Copernicus Sentinel Data Fusion with CNES Orfeo toolbox (Algorithm)		<a href="#">DATA SET</a>	1 OCEAN
CHAHAD-63		<a href="#">DATA SET</a>	1 OCEAN
<b>Weather forged -- test</b>			
OBSTA-1		<a href="#">DATA SET</a>	1 OCEAN
QUICK - Copernicus Sentinel Data Fusion with CNES Orfeo toolbox (Algorithm)		<a href="#">DATA SET</a>	1 OCEAN
MAMICO-15		<a href="#">DATA SET</a>	1 OCEAN



# Raven Protocol: More AI/ML algs

**Sherman Lee** @SHERM8N

Publishing ML algos on [@oceanprotocol](#) is very satisfying.

Anyone in the world can run them on any dataset with minimal effort thanks to Compute to Data.

Do we call these #DeAI legos?

SupplyDefi @SupplyDefi · Sep 14  
@raven\_protocol x @oceanprotocol  
Building together 🏠 with federated learning on the radar 🎉  
\$OCEAN \$RAVEN  
Screenshot from the ocean marketplace

about 2 hours ago — updated about 2 hours ago

Wine quality dataset is a classification dataset to train classification algorithms like Logistic Regression, KNN Classifier, SVM, and other algorithms

[dataset](#) [wine-dataset](#)

DATA AUTHOR  
Raven Protocol & Ocean Protocol

OWNER  
0xAcca\_1f83 – Explorer

DID  
did:op:12b7cd0A6e7d01b484A18d3B39805a60B43ABcBF

1:28 PM · Sep 17, 2021 · Twitter for iPhone

Raven Protocol 1K Followers About Follow Edit

## Machine Learning Series: Using Logistic Regression for Classification in Ocean's Compute-to-Data

5. Walk-through: Publishing Logistic Regression Algo

After learning how to publish a dataset, one may want to do some kind of action on that data. This is the innovation of Ocean's Compute-to-Data. Users can easily select an algorithm to start a compute job. Let's walk through how to publish a machine learning algorithm that can use the dataset we previously published. The algorithm of choice? You guessed it, Logistic Regression.

### 1. Setup Polygon Network on MetaMask

Polygon is where we are publishing the datasets and algorithms for its speed & cost. One could also use Ethereum or Binance Smart Chain if they wished. Ocean already has great documentation on setting up Polygon: <https://docs.oceanprotocol.com/tutorials/polygon-bridge/> <https://blog.oceanprotocol.com/ocean-on-polygon-network-8abad19cbf47>

### 2. Open Ocean Market Publish Page

Fire up the Ocean Market UI and select algorithm: <https://market.oceanprotocol.com/publish>

### 3. Publish

Highlight the important features of your data set or algorithm to make it more discoverable and catch the interest of data consumers.

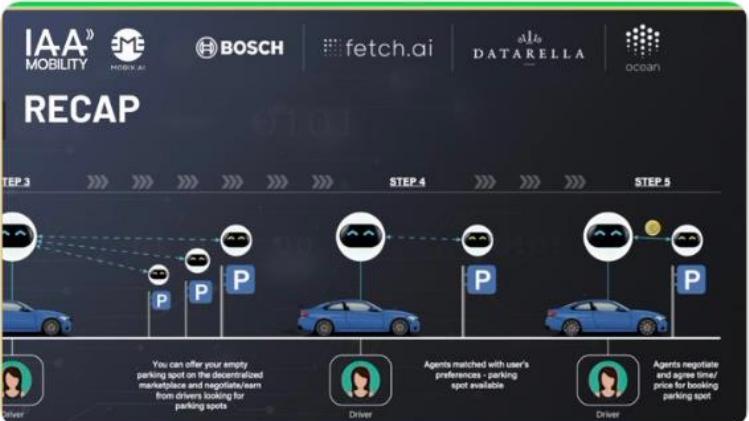


# Datarella / Mobix + Bosch + Fetch.ai

 MOBIX  
@MOBIX\_AI

A conversation between @Fetch\_ai powered Autonomous Agents on Deep Parking, MOBIX Micromobility and @oceanprotocol powered GDPR-compliant marketing at @IAAmobility -together with @BoschGlobal and @Datarella

[mobix.ai/2021/09/19/a-c...](http://mobix.ai/2021/09/19/a-c...)



The diagram illustrates a five-step process for parking spot matching:

- STEP 3:** A user offers an empty parking spot via decentralized micromobility and negotiation system.
- STEP 4:** Autonomous Agents matched with user's preferences - parking spot available.
- STEP 5:** Agents negotiate and agree time/price for taking parking spot.

Logos at the top of the slide include IAA MOBILITY, MOBIX, BOSCH, fetch.ai, DATARELLA, and ocean.

11:19 AM · Sep 19, 2021 · Twitter for iPad

60 Retweets 5 Quote Tweets 199 Likes



# UTU: Recommendations

<https://defi-portal.utu.io/ocean>

The screenshot shows the DeFi Recommendation Portal interface. At the top, there's a navigation bar with a logo, a search bar containing "defi-portal.utu.io/ocean", and tabs for "Ocean" and "DeFi". Below the navigation is a "CONNECT" button. The main area is titled "Ocean Market" and displays a table of data assets:

NAME	STATUS	PUBLISHER	YOUR NETWORK	TIMES CONSUMED
100K+ Historical match results of top European Football Club Mc Daymond	Purgatory	Mc Daymond		0
Analysis of the Leading Brands Mentioned in Twitter Stravito	Purgatory	Stravito		0
World's Health Statistics Data Influxion	Active	Data Influxion		0
Tesla User Data in Los Angeles Trayvon Kirsh - University of California Berkeley	Active	Trayvon Kirsh - University of California Berkeley		1

This is a detailed view of a data asset from the Ocean Market. The left sidebar lists "DATA ASSETS" with "AtlantisStream.io - Realtime Consumer Data Streams" selected. The main panel shows the "DATA ASSET DETAIL" for "AtlantisStream.io - Realtime Consumer Data Streams". It includes:

- Title:** AtlantisStream.io - Realtime Consumer Data Streams
- View on Ocean Market** link
- By:** Atlantis Streams
- 4 Data assets**
- Updated:** 3 months ago
- Status:** Active
- Description:** Atlantis Stream is a crowdsourced dataset of real-time consumer data streams. Notice (11/17/2020) Atlantis Stream is currently pre-alpha, and will be migrating to compute-to-data.

The right side of the screen displays summary statistics under "Usage in your network" and "Signals".

**Usage in your network:**

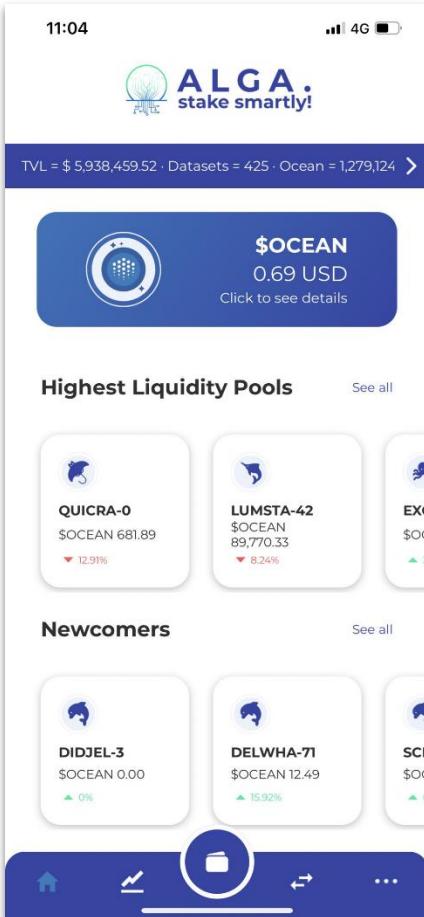
USAGE OF THIS DATA ASSETS	
<b>Consumers</b>	<b>Liquidity providers</b>
<b>0</b> In your network consumed this data asset	<b>0</b> In your network provided liquidity for this data asset

**Signals:**

Total consumption <b>351.23</b> OCEAN 4 times	Total liquidity <b>6,065.453</b> OCEAN 1 pools
Swap volume <b>82,889.423</b> OCEAN 1 pools	Monthly activity <b>0</b> CONSUMPTIONS



# Data Whale: Data Ratings, Data Wallet



The Data Whale Ocean Marketplace Directory & Pool Ratings website displays the following information:

- Header: market.oceanprotocol.com/asset/did:op:fcB47f5781F14Ed7E032BD395113b84C897aA23f
- Section: Data Whale Ocean Marketplace Directory & Pool Ratings
- ETH tab
- Sub-section: DATA SET | Tranchent Pelican Token – TREPEL-36
- Published By: Data Whale Curation & Management  
11 months ago -- updated 30 days ago
- Description: The Directory provides you with valuable Insights to the top Data Token liquidity pools on the Ocean Protocol Marketplace.
- Text: Watch our full YouTube overview by clicking the banner below.
- Video thumbnail: DATA WHALE
- Section: The Directory Highlights

  - 1. The most sold dataset on the Ocean Protocol Marketplace (70+ sales).
  - 2. 15'000'000 \$OCEAN traded across almost 7'000 pool transactions.
  - 3. Price Growth Potential: up to 500%+ (nfa).
  - 4. All-Time-High ROI: 777x.
  - 5. Has been traded on Uniswap [here!](#)
  - 6. All the most important information on where to stake on the Ocean

- Bottom right: No account connected. Please connect your Web3 wallet.
- Right sidebar: USE, POOL, TRADE
- Pool details: 70.067 OCEAN POOL ≈ €40.56  
html 7.56 KB
- Call-to-action: BUY FOR 1 YEAR
- Note: For using this dataset, you will buy 1 TREPEL-36 and immediately spend it back to the publisher and pool.



# Ocean Pearl: Project Tracker→OceanDAO frontend

**We are on track with the newest projects powered by Ocean Protocol.**

Community-based project tracking platform for the Ocean Protocol ecosystem with an early focus on the OceanDAO community.

[Explore](#)

### Ocean Pearl x DAO

All infos about the current funding round of the Ocean Dao.

Funding round Round 12	# Amount proposals 16 projects
Voting begins in 3 days	Total Amount \$2,607 USD

[See all listed proposals →](#)

### Project overview

See what the community has to offer.

[View all](#)

<b>VORN</b> Build & Integrate	<b>Ocean Market Analytics</b> Analytics	<b>Aggregare</b> Blockchain	<b>Ocean Missions</b> Blockchain
Integrate the ocean wallet into our new Data NFT marketplace.	Integrate the Ocean Marketplace with Ocean Protocol Analytics.	A platform for end users to share processes and service data between them.	We connect data providers (data scientists producing data assets from their data) and data consumers.
<b>Disrupt MLS</b> Build & Integrate	<b>Ocean Protocol UG...</b> Data Exchange	<b>OceanDAO Grants An...</b> DAO	
Integrate the ocean wallet into our new Data NFT marketplace.	Open the centralization of the Ocean Protocol ecosystem.	Create Ocean Protocol Community Council through community nomination.	Build framework to get up to date rights on the Ocean DAO grants to the service of day.
<b>Ocean Pearl</b> DAO	<b>Newsletter for the Spo...</b> Community	<b>HealthLink</b> Connectivity	<b>Onshore Ocean</b> Build & Integrate
We bootstrap a community-based project tracking platform for the Ocean ecosystem until its	With this initiative, take to create a reference point for the Spanish-speaking community to be...	A grant is requested to engage and grow an existing community of doctors and healthcare...	Extending Ocean Protocol with an accessible living and local application marketplace.

**DAO Voting**

An overview of the highest voted proposals decided by the community.

Amount proposals 16 proposals	Funding amount 0 USD	Amount Requested 9,307 USD	Total Votes 0 OCEAN	Will be burned 0 USD
-------------------------------	----------------------	----------------------------	---------------------	----------------------

Round 12  
2 days 16 hours 41 minutes 54 seconds  
time until voting for proposals begins

**Proposals with funding**

All data is received from the OceanDAO Antelope which can be found [here](#).

Name	Votes	Funding	Completed Proposals
This list is empty right now. Check back later.			

Round 12  
2 days 16 hours 41 minutes 54 seconds  
time until voting for proposals begins

**Proposals without funding**

Name	Votes	Yes Votes needed	Funding	Completed Proposals
#1 Data Whole Build & Integrate	0 Yes Votes 0 No Votes	1	12,500 USD	7
#2 Alarm Regenerative Marketplace Build & Integrate New Entrants	0 Yes Votes 0 No Votes	1	3,000 USD	0
#3 Healthcare Data Guild Build & Integrate New Entrants	0 Yes Votes 0 No Votes	1	3,000 USD	0



# DataUnion: AI Image Labeling Union

 **DataUnion Foundation**  
Unleash Data

added at  
April 19th, 2021

[copy project link](#)

Description  
We want to give everyone the ability to use their data for a better future and their own profit.

[read full proposal](#)

---

**DAO proposal**

↳ Funding Round  
Round 9

↳ Requested Funding  
17500 USD

Project Wallet Address  
0x655efe6eb2021b8cefef22794d90293aec37bb325

[vote here](#)

Round	Yes Votes	No Votes	Granted Funding	Granted	<a href="#">View full proposal</a>
3	740138	-	10000	yes	<a href="#">port</a>
4	188499	-	6500	yes	<a href="#">port</a>
5	1014808	500	7500	yes	<a href="#">port</a>
6	1749185	-	27200	yes	<a href="#">port</a>
7	1040709	470103	32000	yes	<a href="#">port</a>
8	1501293	2690452	-	no	<a href="#">port</a>

  
**DataUnion**  
EVERY EFFORT COUNTS

[Alpha](#) [Datasets](#) [Contribute](#) [Datatoken](#) [Vision](#) [Solution](#) [Team](#) [Contact](#)

TAKE PHOTOS,  
ADD LABELS,  
ANNOTATE IMAGES  
& GET CRYPTO REWARDS  
[TRY OUR ALPHA APP](#)



# Opscientia: Data DAO around Open Science



## Opscientia

@opscientia Follows you

We're a community-owned open science ecosystem that unlocks data silos revolutionises collaboration 🤝 and democratises funding 💡

⌚ Singapore, Barcelona ⌚ opsci.io 📅 Joined February 2021

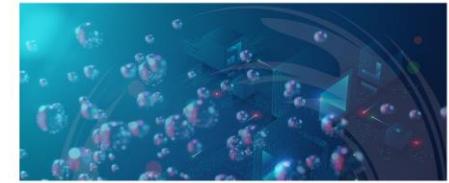
119 Following 294 Followers

The screenshot shows the 'Open Science Wallet' interface. At the top, there are buttons for 'Upload' and 'Public'. Below this, a dataset card for 'Multi-echo fMRI replication sample of autobiographical memory, prospection and theory of mind reasoning tasks' is displayed. The card includes the names 'Elizabeth DuPre', 'Wen-Ming Luh', and 'R. Nathan Spreng'. Below the card are two small buttons labeled 'Brains' and 'fMRI'. To the right of the card is a 'Download' button. Another dataset card for 'ASL\_Philips\_PCASL\_2DEPI' is partially visible below it, listing 'Sjoerd B. Vos' and 'David L. Thomas'.

The screenshot shows a 'Please Wait' message with the text 'pushing file to bucket ...'. Below this, there are fields for 'Title' (containing 'Logo'), 'Authors' (containing 'Alex'), and 'Tags' (containing 'Logo, Opscientia'). A 'Submit' button is located at the bottom of these fields. Below this section, there are two sections: 'My Datasets:' and 'Private Access Datasets:', each containing a dataset card identical to the one in the previous screenshot.

## Opscientia DAO Wins Multiple Awards at the EthGlobal Hackathon

Alexandra McCarroll [Follow](#) Aug 26 · 2 min read



Opscientia's [data wallet prototype](#) for research data management to promote open science impressed many at the 2021 Web3Weekend ETHGlobal hackathon!



# Algovera: AI community \* Ocean

algovera.ai

The screenshot shows the Algovera website. At the top, it says "Distributed communities building AI." Below that, a post from "AlgoveraAI @AlgoveraAI · Dec 1" reads: "We're starting our financial data science hacking sessions today at 5 pm UTC. If you're interested in the intersection of machine learning and DeFi, come build something with us. At the end, we'll share ownership of the algorithm with the contributors [calendar.google.com/event?action=T](https://calendar.google.com/event?action=T)...". The post has 1 comment, 1 retweet, 6 likes, and a share button. Below this, another post from "AlgoveraAI @AlgoveraAI · Dec 1" says: "Really interesting session & great team so far with a good mix of data science, DeFi & commercial perspectives. We talk about some of the current difficulties with DeFi analytics and explore ways that deep learning algorithms could help". This post also has 1 comment, 1 retweet, 6 likes, and a share button. At the bottom, there is a video thumbnail for "youtube.com Algovera DeFi Hacking W1: Difficulties with DeFi A..." with a play button in the center.

The screenshot shows a GitHub repository page for "AlgoveraAI / onshore". The "Code" tab is selected. The main list contains the following items:

File	Description
coco2017-sample	add notebooks and code for C2D
imagenette2-sample	add notebooks and code for C2D
images	add notebooks and code for C2D
1-imagenette-classification.ipynb	update notebooks to latest versions
2-coco-keypoints.ipynb	add notebooks and code for C2D
3-train-imagenette.ipynb	fix bug in notebook
4-publish-model.ipynb	update notebooks to latest versions
5-run-compute.ipynb	update notebooks to latest versions
99-publisher-add-trusted-algorithm...	update notebooks to latest versions
config.ini	add notebooks and code for C2D
create-coco-sample.ipynb	update notebooks to latest versions



# Vantage Crypto: WSS Integration, Data Market

 Ocean Vantage  
Build & Integrate

added at May 2nd, 2021 [copy project link](#)

Description  
Facilitate data offerings, staking and data consumption on the Ocean Protocol network by empowering users with the ability to analyze any numerical data on the Ocean Protocol network and monetize their processed analytical datasets through an Ocean streamlined Analytics platform.

[read full proposal](#)



 VANTAGE CRYPTO (api)

Crypto-Market Analytics for modern analysts

Advanced market data & Next-generation analytics [Learn More](#)



 Vantage Signals  
Next generation quantitative analytics and signalling platform

Advanced market metrics, buy only the specific data you need!

Serving some 3.5 million data points producing 5 billion records daily.

We offer a first of its kind Modular API data subscription service. We enable our API users to choose what data they want, how they want it and how much of it they want.

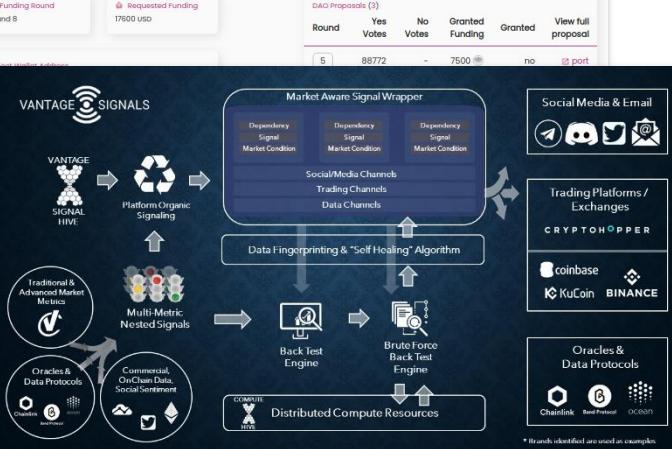
The order book and order flow data we collect is non-persistent. This data is not available from most exchanges after it is collected, this data is hard to find. We provide two different API interfaces, one for real-time analytics and the other for bulk data backtesting.

 CoinMarketFlow.com  
Advanced Digital Asset Screener for innovative traders and API customers

 Vantage Triggers for Cryptohopper  
Super power your hopper triggers with Vantage Triggers!



[Subscribe](#) [Learn More](#)



 VANTAGE SIGNALS

Vantage Signals  
Next generation quantitative analytics and signalling platform

Modular API Data  
Buy only the specific data you need, at a HUGE DISCOUNT

 CoinMarketFlow.com  
Advanced Digital Asset Screener for innovative traders and API customers

 Vantage Triggers for Cryptohopper  
Super power your hopper triggers with Vantage Triggers!

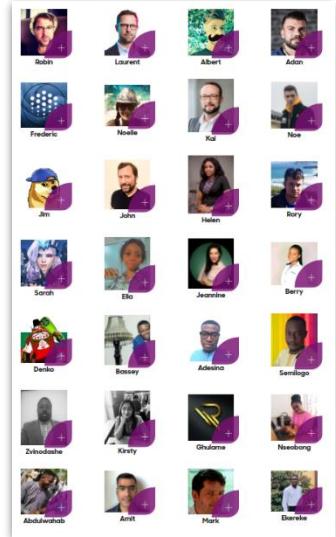
**NO CODING REQUIRED** Focus on financial analysis without having to learn to code. Users don't need to script anything to use our platform, we provide advanced features with an Intuitive GUI.





# Ocean Ambassadors

## Outreach



Bounty for OP Material Translations in Local Language  
Oct 15 | Oct 15 | 6 |

[Manage] Ocean Ambassadors Twitter  
Apr 21 | Apr 21 | 1 |

Manage Ambassador Outreach  
Oct 15 | Oct 15 |

Check Inn Members Credentials  
Oct 15 | Oct 15 |

Admin - mod Telegram  
Oct 15 | Oct 15 | 3 |

Admin - mod Discord  
Oct 15 | Oct 15 | 3 |

Organize a Live Event (Talk/Conference), hosted & partnership with Goldfingr In Club  
Oct 15 | Oct 15 | 1 |

University presentation  
Oct 15 | Oct 15 |

The background of the board features a large, clear blue ocean wave crashing towards the shore.

## Tech

Done - Turtle  
Oct 15 | Oct 15 | 1/7 |

1 [Create] Awesome Ocean Protocol List  
Apr 21 | Apr 21 | 1 |   
● 1/2 |

5 [Implement] Project Tracker (Ocean Pearl)  
Oct 15 | Oct 15 | 3 |   
● 0/2 | EP | MK |

3 [Implement] OpenMined Integration  
Oct 15 | Oct 15 |

1 Define Ocean Tech Ship as an Incubator  
Oct 15 | Oct 15 |

Recurring Activities  
Oct 15 | Oct 15 |

The background of the board is a solid dark blue.



# OceanDAO: 100+ projects granted

[oceanpearl.io/projects](https://oceanpearl.io/projects)



Projects

Dao Proposals

Login via Wallet

## Project overview

See what the community has to offer.

**Evotegra**  
Unleash Data

Extend the EVO/2MP/TRFC/DE/200K Dataset with new classes like pedestrian, car, motorcycle...

**Ocean Vantage**  
Build & Integrate

Facilitate data offerings, staking and data consumption on the Ocean Protocol network by...

**Project Coral**  
Outreach

Project Coral is an outreach and community building initiative to bootstrap an Open Science Data...

**Coral Market**  
Build & Integrate

Coral Market is open-source application for GDPR-compliant self-sovereign scientific data...

**Ocean Pearl**  
Outreach

We bootstrap a community-based project tracking platform for the Ocean ecosystem with an...

**RugPullIndex**  
Build & Integrate

When the Ocean Protocol first launched their dynamically priced data set pools (a fork of Balancer...

**Algovera Onshore**  
Build & Integrate

Kaggle for Data Scientists utilizing Ocean Protocol.

**Onshore OCEAN**  
Build & Integrate

Kaggle for Data Scientists utilizing Ocean Protocol.

**DataUnion Foundation**  
Unleash Data

We want to give everyone the ability to use their data for a better future and their own profit.

**Data Whale**  
Build & Integrate

Data Whale is a startup that is inspired by the Ocean Protocol eco-system. We develop a variet...

**RAZ Finance**  
Build & Integrate

RAZ simplifies ESG and investment data management while making the influence of impact on...

**Ocean Greek Commun...**  
Outreach

Create an Ocean Protocol Newsletter/Blog for the Greek Community

**Longtail Financial**  
Build & Integrate

Our goal is to build a protocol for data consumption and trading that is effective and efficient.

**DeFi Pulse for Datatoken**  
Research Data Icons

We are building a database of DeFi protocols for the Datatoken.

**RetailLife**  
Build & Integrate

Improve the user experience & social interaction of the Ocean Protocol by making data consumption and sharing of data easier.

**Go to Market Analysis**  
Protocol

We want to understand which products are most successful in the market and how to make them more successful.

**The Pelican**  
Protocol

A decentralized protocol for the data economy.

**AI Synthetic Data Dene...**  
Protocol

We are building a synthetic data generation system for Ocean Protocol.

**detoxDAO**  
Protocol

DetoxDAO is a decentralized, open-source, complex data collection, processing, and analysis platform.

**Green Light**  
Protocol

A protocol for the protection of data privacy in the Ocean Protocol.

**Homomorphic Encrypt...**  
Protocol

Homomorphic encryption based solution to preserve intellectual property rights in privacy...

**Disrupt MLS**  
Protocol

Disrupt the centralization of household inventory data on the MLS.

**Walkers Reserve Curre...**  
Protocol

High-quality environmental datasets from leading institutions in Walkers on climate change.

**Duggle**  
Protocol

Duggle is a data union of peers with annotations on Ocean.

**The Currents Project**  
Protocol

Our goal is to build a decentralized project for data consumption and trading.

**SecondLook**  
Protocol

SecondLook is a decentralized, open-source, complex data collection, processing, and analysis platform.

**Decentralized Identity**  
Protocol

Decentralized Identity is a protocol for the current trend of identity theft.

**Degen Triggers**  
Protocol

Issue alerts and earn the extra when your pool share increases by 10%.

**Homo - Securely Mon...**  
Protocol

Homo allows service providers to monetize their web services using Ocean Protocol.

**Datadote.ai**  
Protocol

We empower internet users to monetize their own data and provide data scientists with...

**Resilient ML**  
Protocol

Resilient ML team will utilize a robust, interpretable machine learning pipeline, which has been...

**Dotpeek**  
Protocol

Increase public interest for datasets by linking them to relevant social media comments.

**Oceans Deri**  
Protocol

Introducing the Ocean Protocol to the crypto ecosystem in order to facilitate...

**Currents Project**  
Protocol

Our goal is to build a decentralized project for data consumption and trading.

**Project Appleseed**  
Protocol

By enabling just a few of the major open-source sub-communities the Ocean Protocol would...

**Vortex4LPs**  
Protocol

Introducing the latest material SwapPool changes to cover more liquidity pools.

**OurNet**  
Protocol

The construction of a global, decentralized data bank of locally based organizations and...

**DIMO Electric Vehicle**  
Protocol

Develop a webapp to onboard more users, allowing them to share data directly with...

**Data Funnel**  
Protocol

The objective of this proposal is to onboard data into the Ocean ecosystem.

**Alternate Future Summit**  
Protocol

Alternate Future summit is an initiative that will include a hackathon on Solana Island.

**Analytics Translation**  
Protocol

An AI capable translation function to translate the current terms to be noted soon from the blockchain.

**Moon Jelly**  
Protocol

An AI capable translation function to translate the current terms to be noted soon from the blockchain.

**Equality Pool Handling**  
Protocol

Ensuring a fairer reward distribution for equality pool participants.

**Build Ocean**  
Protocol

An open community for crowd funded media platform for sharing and creating Ocean content.

**oceaniaSPC Simulations**  
Protocol

The project creates a web solution to simulate the condition and recovery of ecosystems.

**Unbankable.me**  
Protocol

Unbankable.me is building the first consumer banking decisions, uses one of their managers...

**Nano Senior Powered ...**  
Protocol

Creating and establishing a new dataset on Ocean that makes work with regular input.

**Local Network Egress Tr...**  
Protocol

10x reduce egress traffic by implementing the Kubernetes configuration in order to increase...

**Ocean Academy**  
Protocol

Introducing an AI capable education platform designed for next gen...

**VideoWild**  
Protocol

An AI capable video analysis platform using Ocean Protocol and EOSIO.

**Fair Data**  
Protocol

Introducing the ability for consumers and vendors...





Here's some highlights of [@OceanDAO\\_](#) since day one:

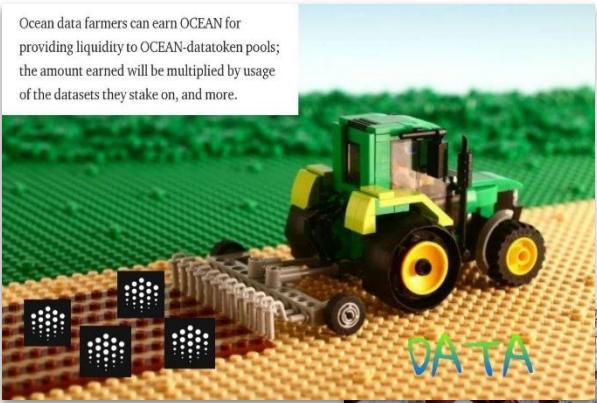
- 106 projects funded, building and strengthening Ocean's ecosystem and the data economy
- 121,672,417 OCEAN Voted
- 194,868 OCEAN burned since Round 8

More on OceanDAO here: [oceanprotocol.com/dao](http://oceanprotocol.com/dao)



# Community Memes / Art

Ocean data farmers can earn OCEAN for providing liquidity to OCEAN-datatoken pools; the amount earned will be multiplied by usage of the datasets they stake on, and more.



Donnie  
@DonnieBigBags

WHAT DID YOU UNLEASH @trentmc0

I was looking forward to a relaxing week of farming \$OCEAN @oceanprotocol

A horde of degens with an insatiable thirst for data have appeared.

No sign of slowing down either. After the election this is going to go CRAZY.

[t.me/Farm\\_Ocean](https://t.me/Farm_Ocean)

Farm Ocean #6 Statistics

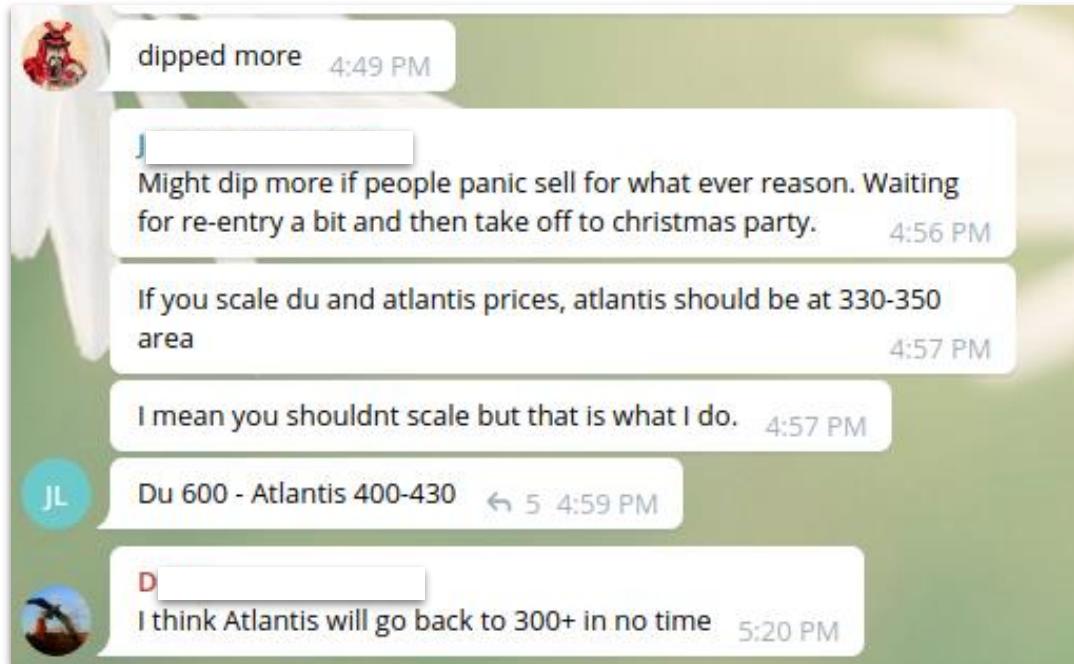
Overview 27 Oct 2020 – 3 Nov 2020

Value	Change	Members	Messages	Growth
1.4K +1K (344 Yrs)	61.4K (95.9k)	1.2K +1.1K	1.2K +1.1K	1.0%
1.7K +1K	Viewing Members	25 Oct 2020 – 3 Nov 2020		

Growth 25 Oct 2020 – 3 Nov 2020

A child in a yellow jacket is running away from a group of zombies, with a chart showing the growth of Farm Ocean members over time.

# A Crypto Telegram Chat... For Data Assets



# Some Ocean Collaborations



gaia-x



XPRIZE®

Reflexer

WORLD  
ECONOMIC  
FORUM

GITCOIN

energy web  
FOUNDATION

BINANCE

DAIMLER

FORESIGHT  
INSTITUTE

Gridgularity

Chainlink

Balancer

RADICALXCHANGE

MOBI

MESSARI

NEW ORDER

Filecoin

ocean

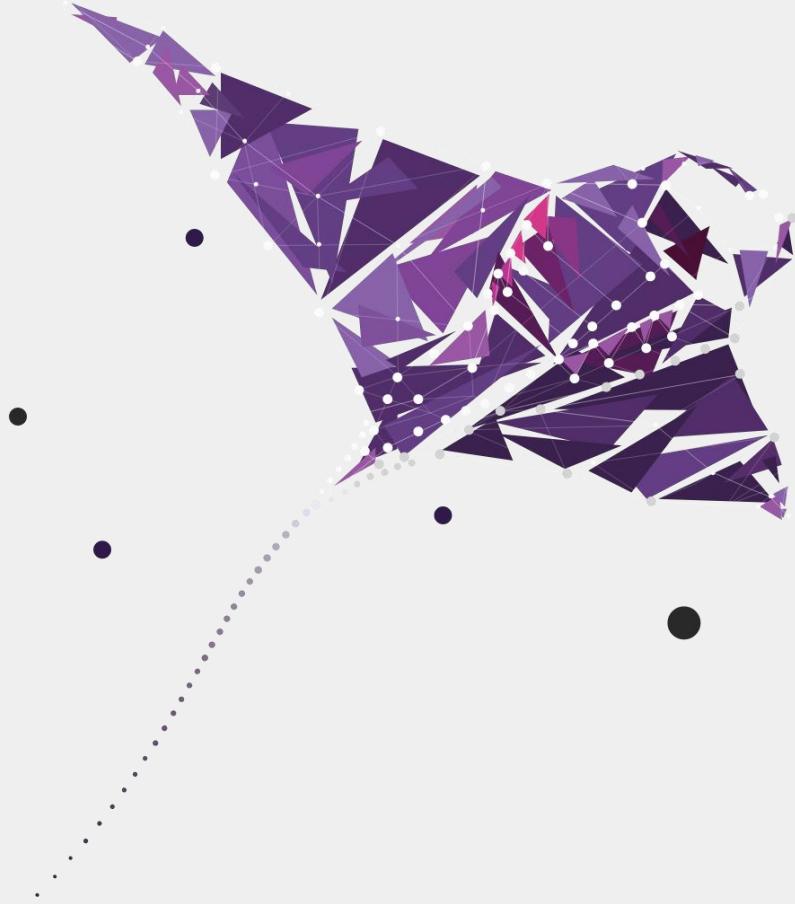
# Birth of an Open Data *Economy*

For the first time ever...

- Data marketplaces open to the world, on a public utility network substrate
- A new way for data creators to share data and to earn
- Automatic price discovery for data, via market mechanisms
- The protocol cast **data as an asset, and people went for it.** Initial Data Offerings etc.

Then...

- An ecosystem has formed around it
- 100+ projects, dozens of collaborators big and small



# Ocean and Edge Computing: Compute-to-Data

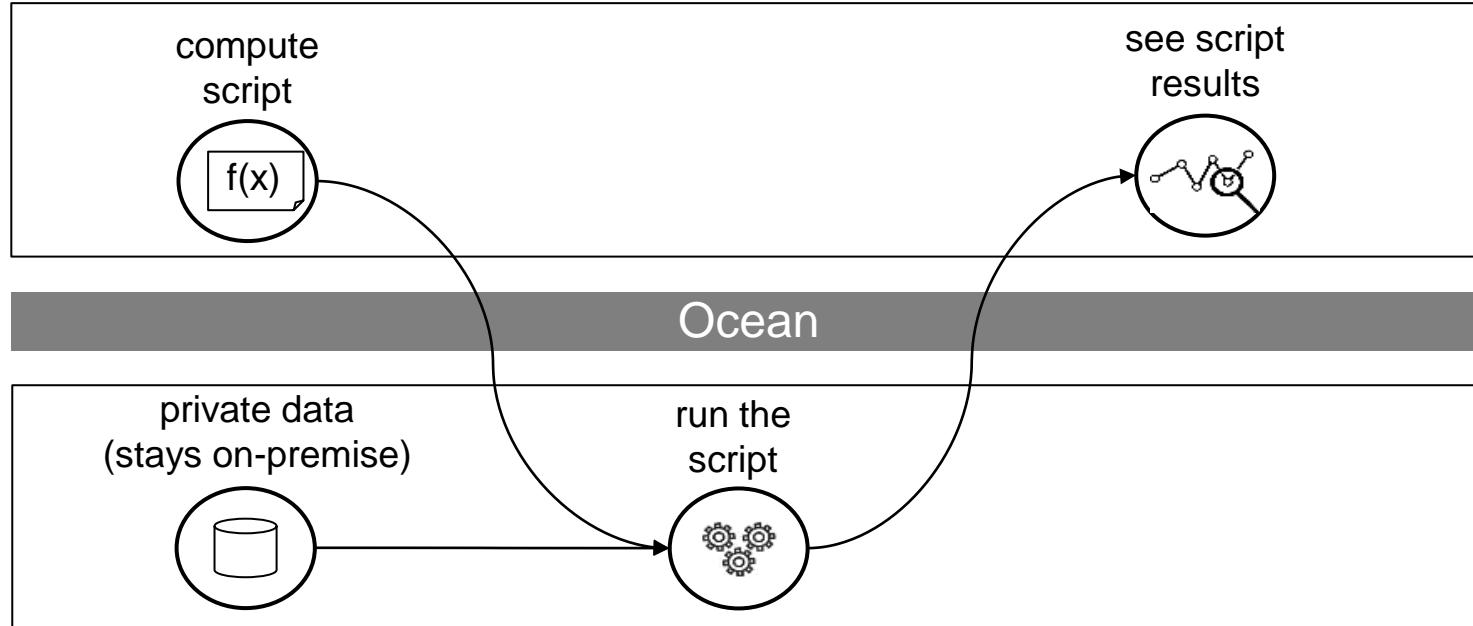
# Ocean Data Service 1/3: Static Uri

- Publisher encrypts the uri
- Uri gets decrypted upon ‘consume’
- Available in backend and frontend (Ocean Market)
- Works for...
  - static files
  - dynamically-updated files
  - for Web2 REST APIs
  - and more. Super-flexible.



# Ocean Data Service 2/3: Compute-to-data

Buy & sell private data, while preserving privacy



# Data Services 2/3: Future

Towards hundreds of specialized data services

- **Edge computing services** - EVE
- **Federated learning & analytics** - via Raven Protocol
- **Web3 data services** - Chainlink, TheGraph Curators, Streamr, etc
- **Web2 streaming data** - WebSockets, GraphQL Subscriptions, etc
- **More privacy-preserving / off-chain compute** - Secret, ZK-Snarks, MPC, HE, ..



# Compute-to-Data In Ocean Market

[blog.oceanprotocol.com/compute-to-data-is-now-available-in-ocean-market-58868be52ef7](https://blog.oceanprotocol.com/compute-to-data-is-now-available-in-ocean-market-58868be52ef7)

The collage consists of five screenshots from the Ocean Market interface:

- Publish Page:** Shows the 'Publish' section where users can highlight features of their data set or algorithm. It includes a note about beta status and links to the market, risks, and terms of use.
- Algorithm Detail Page:** Displays the details for a 'Random Forest Classifier v1.0' algorithm published by 'OxAcca..ff83'. It shows the title, description, tags ('random-forest', 'classifier'), data author ('Raven Protocol & Ocean Protocol'), owner ('OxAcca..ff83'), and Docker image ('oceanprotocol/algo\_dockers:python-panda').
- Market Search Results:** Shows a search results page with 31 results. One result is highlighted: 'Apply pandas filter' by 'OxAcca..ff83'. Another result shown is 'Logistic Regression v1.0' by 'OxAcca..ff83'.
- Job Status Overlay:** A modal window titled 'Job finished' for a task named 'Daily Fishing Effort (01.01.2020)'. It shows the job ID 'EFFTUR-46', the DID 'op:2E761103C8A52F1309Bb438Fc65d56303F884698', and a button to 'GET RESULTS'.
- Job History:** A sidebar showing a history of jobs. The first job listed is 'Job finished' for 'Daily Fishing Effort (01.01.2020)' with job ID 'EFFTUR-46' and DID 'op:2E761103C8A52F1309Bb438Fc65d56303F884698'. It also lists a previous job for 'Count data points (fixed price)' with job ID 'a7\_2c6b' and DID 'op:2f63347ab3e6d59c5235546752c4082f10672EF'.



# C2D Quickstart via Ocean.py: Overview

[github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md](https://github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md)

## Quickstart

### Simple Flow

This stripped-down flow shows the essence of Ocean: simply cre

[Go to simple flow](#)

### Marketplace flow

In this flow, a data asset is posted for sale in a marketplace, and pool.

[Go to marketplace flow](#)

### Compute-to-Data flow

This flow uses Ocean Compute-to-Data (c2d) to compute results

[Go to c2d flow](#)



Here are the steps:

1. Setup
2. Alice publishes data asset
3. Alice publishes algorithm
4. Alice allows the algorithm for C2D for that data asset
5. Bob acquires datatokens for data and algorithm
6. Bob starts a compute job
7. Bob monitors logs / algorithm output

### 3. Alice publishes algorithm

For this step, there are some prerequisites needed. If you want to replace the sample algorithm, you will need to do some dependency management. You can use one of the standard Ocean algorithms or use the image name and tag in the container part of the algorithm metadata. This docker image needs to be pulled first e.g. in the case of Python, OS-level library installations, pip install needs to be run. See more about docker image publishing.

In the same Python console:

```
# Publish ALG datatoken
ALG_datatoken = ocean.create_data_token('ALG1', 'ALG1', alice_wallet, blob=ocean_datatoken.blob)
ALG_datatoken mint(alice_wallet.address, toWei(100), alice_wallet)
print(f"ALG_datatoken.address = '{ALG_datatoken.address}'")

# Specify metadata and service attributes, for "GPR" algorithm script.
# In same location as Brinain test dataset. GPR = Gaussian Process Regression
ALG_metadata = {
    "main": {
        "type": "algorithm",
        "script": "GPR.py"
    }
}
```

### 6. Bob starts a compute job

Only inputs needed: DATA\_did, ALG\_did. Everything else can get computed as needed.

In the same Python console:

```
DATA_did = DATA_ddo.did # for convenience
ALG_did = ALG_ddo.did
DATA_DDO = ocean.assets.resolve(DATA_did) # make sure we operate on the right asset
ALG_DDO = ocean.assets.resolve(ALG_did)

compute_service = DATA_DDO.get_service('compute')
algo_service = ALG_DDO.get_service('access')

from ocean_lib.web3_internal.constants import ZERO_ADDRESS
from ocean_lib.models.compute_input import ComputeInput

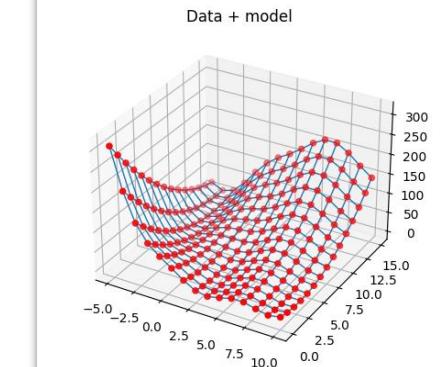
# order & pay for dataset
```

You can use the result however you like. For the purpose of this example, let's plot it.

```
import numpy
from matplotlib import pyplot

X0_vec = numpy.linspace(-5., 10., 15)
X1_vec = numpy.linspace(0., 15., 15)
X0, X1 = numpy.meshgrid(X0_vec, X1_vec)
b, c, t = 0.1291845091439806, 1.5915494309189535, 0.039788735772973836
u = X1 - b*X0**2 + c*X0 - 6
r = 10.* (1. - t) * numpy.cos(X0) + 10
Z = u**2 + r

fig, ax = pyplot.subplots(subplot_kw={"projection": "3d"})
ax.scatter(X0, X1, model, c="r", label="model")
pyplot.title("Data + model")
pyplot.show() # or pyplot.savefig("test.png") to save the plot as a .png file
```



# C2D Quickstart via Ocean.py: Where to find

[github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md](https://github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md)



## Quickstart

### Simple Flow

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[Go to simple flow](#)

### Marketplace flow

In this flow, a data asset is posted for sale in a marketplace, and pool.

[Go to marketplace flow](#)

### Compute-to-Data flow

This flow uses Ocean Compute-to-Data (c2d) to compute results

[Go to c2d flow](#)

# C2D Quickstart: Steps

[github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md](https://github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md)

1. Setup
2. Alice publishes data asset
3. Alice publishes algorithm
4. Alice allows the algorithm for C2D for that data asset
5. Bob acquires datatokens for data and algorithm
6. Bob starts a compute job
7. Bob monitors logs / algorithm output

# C2D Quickstart: Step 2: Publish dataset

[github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md](https://github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md)

```
# Publish DATA datatoken, mint tokens
from ocean_lib.web3_internal.currency import to_wei

DATA_datatoken = ocean.create_data_token('DATA1', 'DATA1', alice_wallet, blob=ocean.config.metadata_cache_uri)
DATA_datatoken.mint(alice_wallet.address, to_wei(100), alice_wallet)
print(f"DATA_datatoken.address = '{DATA_datatoken.address}'")

# Specify metadata & service attributes for Branin test dataset.
# It's specified using _local_ DDO metadata format; Aquarius will convert it to remote
# by removing `url` and adding `encryptedFiles` field.
DATA_metadata = {
    "main": {
        "type": "dataset",
        "files": [
            {
                "url": "https://raw.githubusercontent.com/trentmc/branin/main/branin.arff",
                "index": 0,
                "contentType": "text/text"
            }
        ],
    }
},
```

# C2D Quickstart: Step 3: Publish algorithm

[github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md](https://github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md)

```
# Publish ALG datatoken
ALG_datatoken = ocean.create_data_token('ALG1', 'ALG1', alice_wallet, blob=ocean.config.metadata_cache_uri)
ALG_datatoken.mint(alice_wallet.address, to_wei(100), alice_wallet)
print(f"ALG_datatoken.address = '{ALG_datatoken.address}'")

# Specify metadata and service attributes, for "GPR" algorithm script.
# In same location as Branin test dataset. GPR = Gaussian Process Regression.
ALG_metadata = {
    "main": {
        "type": "algorithm",
        "algorithm": {
            "language": "python",
            "format": "docker-image",
            "version": "0.1",
            "container": {
                "entrypoint": "python $ALGO",
                "image": "oceanprotocol/algo_dockers",
                "tag": "python-branin"
            }
        },
        "files": [
            {
                "url": "https://raw.githubusercontent.com/trentmc/branin/main/gpr.py",
                "index": 0
            }
        ]
    }
}
```

# C2D Quickstart: Step 4: dataset allows algorithm

[github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md](https://github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md)

```
from ocean_lib.assets.trusted_algorithms import add_publisher_trusted_algorithm
add_publisher_trusted_algorithm(DATA_ddo, ALG_ddo.did, config.metadata_cache_uri)
ocean.assets.update(DATA_ddo, publisher_wallet=alice_wallet)
```

# C2D Quickstart: Step 5: get data & alg assets

[github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md](https://github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md)

```
bob_wallet = Wallet(  
    ocean.web3,  
    os.getenv('TEST_PRIVATE_KEY2'),  
    config.block_confirmations,  
    config.transaction_timeout,  
)  
print(f"bob_wallet.address = '{bob_wallet.address}'")  
  
# Alice shares access for both to Bob, as datatokens. Alternatively, Bob might have bought these in a market.  
DATA_datatoken.transfer(bob_wallet.address, to_wei(5), from_wallet=alice_wallet)  
ALG_datatoken.transfer(bob_wallet.address, to_wei(5), from_wallet=alice_wallet)
```

# C2D Quickstart: Step 6: start compute

[github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md](https://github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md)

```
# order & pay for dataset
dataset_order_requirements = ocean.assets.order(
    DATA_did, bob_wallet.address, service_type=compute_service.type
)
DATA_order_tx_id = ocean.assets.pay_for_service(
    ocean.web3,
    dataset_order_requirements.amount,
    dataset_order_requirements.data_token_address,
    DATA_did,
    compute_service.index,
    ZERO_ADDRESS,
    bob_wallet,
    dataset_order_requirements.computeAddress,
)
```



```
# order & pay for algo
algo_order_requirements = ocean.assets.order(
    ALG_did, bob_wallet.address, service_type=algo_service.type
)
ALG_order_tx_id = ocean.assets.pay_for_service(
    ocean.web3,
    algo_order_requirements.amount,
    algo_order_requirements.data_token_address,
    ALG_did,
    algo_service.index,
    ZERO_ADDRESS,
    bob_wallet,
    algo_order_requirements.computeAddress,
```



```
compute_inputs = [ComputeInput(DATA_did, DATA_order_tx_id, compute_service.index)]
job_id = ocean.compute.start(
    compute_inputs,
    bob_wallet,
    algorithm_did=ALG_did,
    algorithm_tx_id=ALG_order_tx_id,
    algorithm_data_token=ALG_datatoken.address
)
print(f"Started compute job with id: {job_id}")
```

# C2D Quickstart: step 7: see output

[github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md](https://github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md)

In the same Python console, you can check the job status as many times as needed:

```
ocean.compute.status(DATA_did, job_id, bob_wallet)
```

This will output the status of the current job. Here is a list of possible results: [Operator Service Status description](#).

Once you get `{'ok': True, 'status': 70, 'statusText': 'Job finished'}`, Bob can check the result of the job.

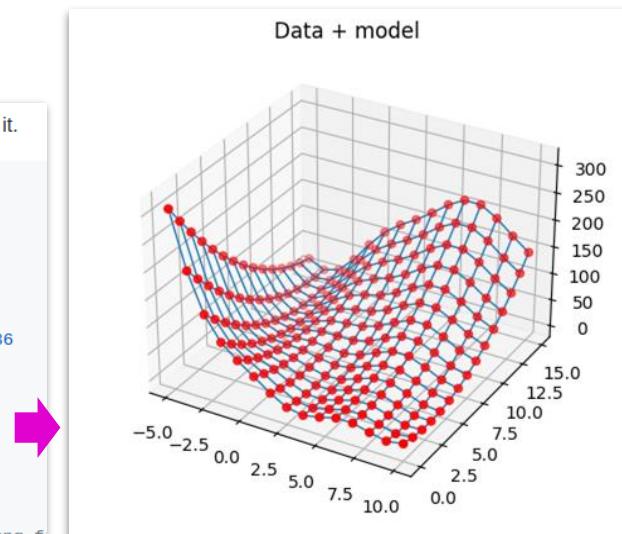
```
result = ocean.compute.result_file(DATA_did, job_id, 0, bob_wallet) # 0 index, means we retrieve the
import pickle
model = pickle.loads(result) # the gaussian model result
```

You can use the result however you like. For the purpose of this example, let's plot it.

```
import numpy
from matplotlib import pyplot

X0_vec = numpy.linspace(-5., 10., 15)
X1_vec = numpy.linspace(0., 15., 15)
X0, X1 = numpy.meshgrid(X0_vec, X1_vec)
b, c, t = 0.12918450914398066, 1.5915494309189535, 0.039788735772973836
u = X1 - b*X0**2 + c*X0 - 6
r = 10.*(. - t) * numpy.cos(X0) + 10
Z = u**2 + r

fig, ax = pyplot.subplots(subplot_kw={"projection": "3d"})
ax.scatter(X0, X1, model, c="r", label="model")
pyplot.title("Data + model")
pyplot.show() # or pyplot.savefig("test.png") to save the plot as a .png file
```



# C2D Quickstart via Ocean.py: Recap

[github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md](https://github.com/oceanprotocol/ocean.py/blob/main/READMEs/c2d-flow.md)

## Quickstart

### Simple Flow

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[Go to simple flow](#)

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In this flow, a data asset is posted for sale in a marketplace, and pool.

[Go to marketplace flow](#)

### Compute-to-Data flow

This flow uses Ocean Compute-to-Data (c2d) to compute results

[Go to c2d flow](#)



Here are the steps:

1. Setup
2. Alice publishes data asset
3. Alice publishes algorithm
4. Alice allows the algorithm for C2D for that data asset
5. Bob acquires datatokens for data and algorithm
6. Bob starts a compute job
7. Bob monitors logs / algorithm output

### 3. Alice publishes algorithm

For this step, there are some prerequisites needed. If you want to replace the sample algorithm, you will need to do some dependency management. You can use one of the standard Ocean algorithms or use your own. Use the image name and tag in the `container` part of the algorithm metadata. This docker image needs to be installed e.g. in the case of Python, OS-level library installations, pip install the dependencies and then publish the image. For more about docker image publishing, see the documentation.

In the same Python console:

```
# Publish ALG datatoken
ALG_datatoken = ocean.create_data_token('ALG1', 'ALG1', alice_wallet, blob=ocean.Blob())
ALG_datatoken mint(alice_wallet.address, toWei(100), alice_wallet)
print(f"ALG_datatoken.address = '{ALG_datatoken.address}'")

# Specify metadata and service attributes, for "GPR" algorithm script.
# In same location as Brinain test dataset. GPR = Gaussian Process Regression
ALG_metadata = {
    "main": {
        "type": "algorithm",
        "script": "GPR.py"
    }
}
```

### 6. Bob starts a compute job

Only inputs needed: DATA\_did, ALG\_did. Everything else can get computed as needed.

In the same Python console:

```
DATA_did = DATA_ddo.did # for convenience
ALG_did = ALG_ddo.did
DATA_DDO = ocean.assets.resolve(DATA_did) # make sure we operate on the right asset
ALG_DDO = ocean.assets.resolve(ALG_did)

compute_service = DATA_DDO.get_service('compute')
algo_service = ALG_DDO.get_service('access')

from ocean_lib.web3_internal.constants import ZERO_ADDRESS
from ocean_lib.models.compute_input import ComputeInput

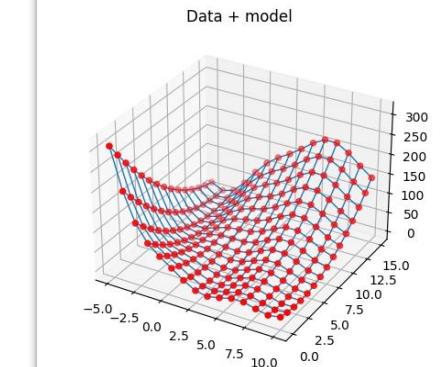
# order & pay for dataset
```

You can use the result however you like. For the purpose of this example, let's plot it.

```
import numpy
from matplotlib import pyplot

X0_vec = numpy.linspace(-5., 10., 15)
X1_vec = numpy.linspace(0., 15., 15)
X0, X1 = numpy.meshgrid(X0_vec, X1_vec)
b, c, t = 0.1291845091439806, 1.5915494309189535, 0.039788735772973836
u = X1 - b*X0**2 + c*X0 - 6
r = 10.* (1. - t) * numpy.cos(X0) + 10
Z = u**2 + r

fig, ax = pyplot.subplots(subplot_kw={"projection": "3d"})
ax.scatter(X0, X1, model, c="r", label="model")
pyplot.title("Data + model")
pyplot.show() # or pyplot.savefig("test.png") to save the plot as a .png file
```



# Algovera C2D \* Jupyter: Publish Model

<https://github.com/AlgoveraAI/onshore/blob/main/notebooks/4-publish-model.ipynb>

The screenshot shows a GitHub repository page for 'AlgoveraAI / onshore' (Public). The repository has 2 stars, 1 fork, and 0 issues. The 'Code' tab is selected. A specific file, '4-publish-model.ipynb', is shown. The commit history shows a single commit by 'richardblythman' updating notebooks to latest versions. The notebook contains 260 lines (260 sloc) and 7.87 KB. The code in the notebook is as follows:

```
In [1]: from IPython.display import Image

In [2]: from ocean_lib.ocean.ocean import Ocean
from ocean_lib.config import Config

config = Config('config.ini')
ocean = Ocean(config)

print(f"config.network_url = '{config.network_url}'")
print(f"config.block_confirmations = {config.block_confirmations.value}")
print(f"config.metadata_cache_uri = '{config.metadata_cache_uri}'")
print(f"config.provider_url = '{config.provider_url}'")

config.network_url = 'https://rinkeby.infura.io/v3/d163c48816434b0bbb3ac3925d6c6c80'
config.block_confirmations = 0
config.metadata_cache_uri = 'https://aquarius.oceanprotocol.com'
config.provider_url = 'https://provider.rinkeby.oceanprotocol.com'
```

# Algovera C2D \* Jupyter: Run Compute

<https://github.com/AlgoveraAI/onshore/blob/main/notebooks/5-run-compute.ipynb>

The screenshot shows a Jupyter Notebook interface with several code cells and their outputs.

- In [32]:**

```
DATA_did,
compute_service.index,
ZERO_ADDRESS,
wallet,
dataset_order_requirements.computeAddress,
)
```
- In [32]:**

```
# order & pay for algo
algo_order_requirements = ocean.assets.order(
    ALG_did, wallet.address, service_type=algo_service.type
)
ALG_order_tx_id = ocean.assets.pay_for_service(
    ocean.web3,
    algo_order_requirements.amount,
    algo_order_requirements.data_token_address,
    ALG_did,
    algo_service.index,
    ZERO_ADDRESS,
    wallet,
    algo_order_requirements.computeAddress,
)
```
- In [33]:**

```
compute_inputs = [ComputeInput(DATA_did, DATA_order_tx_id, compute_service.index)]
```
- In [34]:**

```
job_id = ocean.compute.start(
    compute_inputs,
    wallet,
    algorithm_did=ALG_did,
    algorithm_tx_id=ALG_order_tx_id,
    algorithm_data_token=alg_token.address
)
print(f"Started compute job with id: {job_id}")
```

Started compute job with id: 94ed86622a6342178303dc4126e6c2d2
- In [37]:**

```
ocean.compute.status(DATA_did, job_id, wallet)
```

Out[37]: {'ok': False, 'status': 31, 'statusText': 'Data provisioning failed'}
- In [ ]:**

```
result = ocean.compute.result_file(DATA_did, job_id, 0, wallet) # 0 index, means we retrieve the results from the first
```



# EVE \* Ocean Opportunities



# Possible EVE \* Ocean integration 1

Run an EVE-OS node that serves up streaming data as http or wss, and publish on Ocean Market



http  
or  
wss

A screenshot of the Ocean Market 'Publish' page. It features a title 'Publish' and a sub-instruction: 'Highlight the important features of your data set to make it more discoverable and catch the interest of data consumers.' Below this is a large input field for 'Title' containing 'e.g. Shapes of Desert Plants'. There's a 'Description' input field and a 'File' input field containing 'e.g. https://file.com/file.json'. A note below the file field says, 'Please provide a URL to your data set file. This URL will be stored encrypted after publishing.' There's also a 'Sample file' input field with 'e.g. https://file.com/samplefile.json' and a note: 'Please provide a URL to a sample of your data set file. This file should reveal the data structure of your data set, e.g. by including the header and one line of a CSV file. This file URL will be publicly available after publishing.' At the bottom is an 'Access Type' dropdown menu.

PUBLISH

## Publish

Highlight the important features of your data set to make it more discoverable and catch the interest of data consumers.

Given the beta status, publishing on Rinkeby first is strongly recommended. Please familiarize yourself with [the market](#), [the risks](#), and the [Terms of Use](#).

**Title\***  
e.g. Shapes of Desert Plants

**Description\***  
Enter a concise title.

**File\***  
e.g. <https://file.com/file.json>

Please provide a URL to your data set file. This URL will be stored encrypted after publishing.

**Sample file**  
e.g. <https://file.com/samplefile.json>

Please provide a URL to a sample of your data set file. This file should reveal the data structure of your data set, e.g. by including the header and one line of a CSV file. This file URL will be publicly available after publishing.

**Access Type\***

A screenshot of the Ocean Market 'EVE Data Streams' page. It shows a list of streams under the heading 'Atlantis Streams'. The first item is 'Meretricious Manatee Token – MERMAN-13' published by '0x4f40\_50B3'. A note below says, 'Atlantis Stream is a crowdsourced dataset of real-time consumer data streams.' There's a 'Notice (11/17/2020)' section with the text: 'Atlantis Stream is currently pre-alpha, and will be migrating to compute-to-data when it becomes available. Stay up to date on any of our official channels below:' followed by a list of links: Website, Newsletter, Telegram, Twitter, Discord, and Github. At the bottom is a 'How it works.' section.

PUBLISH

## EVE Data Streams

### Atlantis Streams

Meretricious Manatee Token – MERMAN-13 [↗](#)  
Published by [0x4f40\\_50B3](#) – Etherscan [↗](#)

Atlantis Stream is a crowdsourced dataset of real-time consumer data streams.

**Notice (11/17/2020)**

Atlantis Stream is currently pre-alpha, and will be migrating to compute-to-data when it becomes available. Stay up to date on any of our official channels below:

- [Website](#)
- [Newsletter](#)
- [Telegram](#)
- [Twitter](#)
- [Discord](#)
- [Github](#)

For business inquiries:

- [Contact our founder](#)
- [Email us at \[team@atlantisstream.io\]\(mailto:team@atlantisstream.io\)](#)

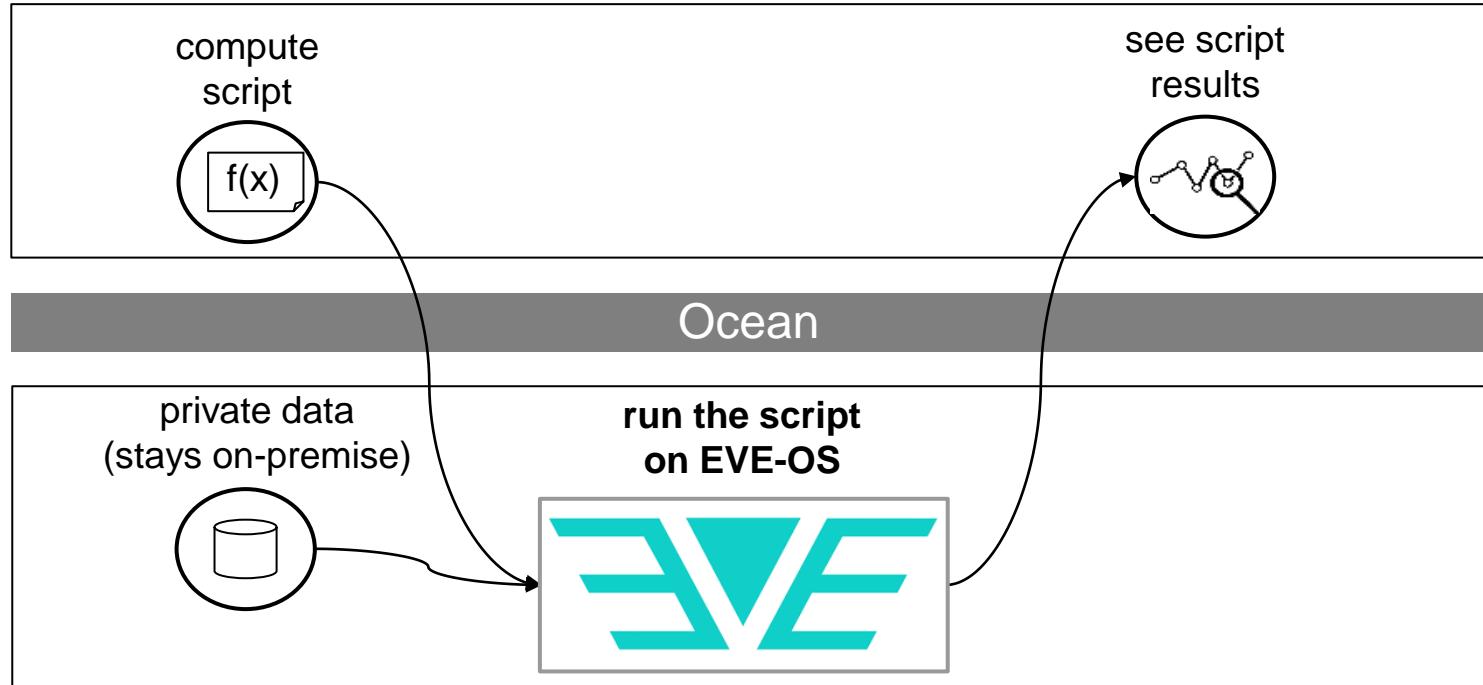
**How it works.**



ocean

# Possible EVE \* Ocean integration 2

Run EVE-OS inside Ocean C2D, to do compute at the edge while keeping data private



# EVE \* Ocean

- **Possible integrations:**
  - Run an EVE-OS node that serves up streaming data, and publish on Ocean Market
  - Run EVE-OS inside Ocean C2D, to do compute at the edge while keeping data private
- **Then EVE work could draw on benefits of Ocean infrastructure:**
  - Buy / sell / access datasets - backend interface, GUI interface
  - Buy / sell / access algorithms & compute
  - Fine-grained permissions for above, to handle GDPR, internal data sharing, ..
  - Data wallets & DAOs - secure management of above, for individuals & groups
  - Provenance in when/where data & compute is used
  - Quickly roll your own data market, algorithm market, data union, etc
  - Interface to DeFi - data exchanges, loans, data-backed stablecoins, ..
- Bonus: PR from both EVE & Ocean communities
- Bonus: Funding opportunities available via OceanDAO



# Funding for EVE \* Ocean, via OceanDAO

\$200K+ available per month. Anyone can apply

<https://oceanprotocol.com/dao>

OCEANDAO

## OceanDAO Grants

OceanDAO offers community grants curated by OCEAN holders, towards growing the Ocean ecosystem. Funding is available for building software that uses Ocean, unleashing data, outreach, and improving OceanDAO itself.

**SUBMIT PROPOSAL**   **VIEW PROPOSALS**   **VOTE**

### Grant Proposal Template

#### Part 1 - Proposal Submission (\*Mandatory)

Name of Project:

(>=1 words)

Proposal in one sentence:

(1 sentence)

Description of the project and what problem is it solving: (You can give more details in "proposal details" section farther down.)

(1 paragraph)

Grant Deliverables: (Target deliverables for the funding provided.)

- (Grant Deliverable 1)
- (Grant Deliverable 2)
- (Grant Deliverable 3)
- ...



An abstract graphic in the top-left corner features a central purple and magenta polygonal cluster. From this center, several dotted lines radiate outwards towards the bottom-left. A single solid black dot sits on one of these lines near the bottom edge.

# Conclusion

# What is Ocean?

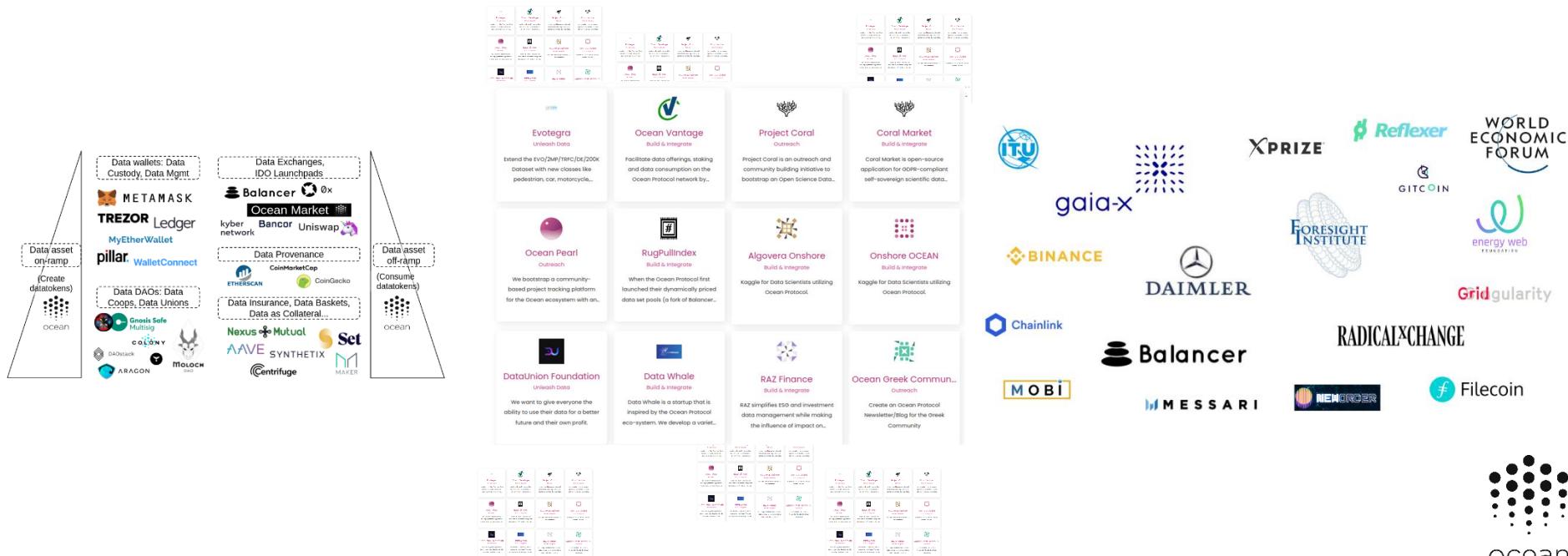
Ocean is...

1. **A community / ecosystem** of individuals and orgs driving to the mission (initiated by Ocean Protocol Foundation)
2. **A set of tools** as public infrastructure to facilitate the mission
3. **A token** (OCEAN) with incentives to grow & sustain the ecosystem



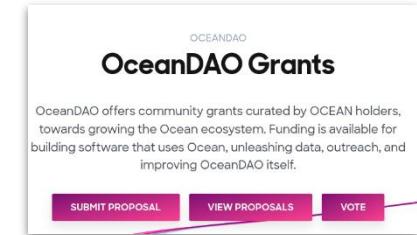
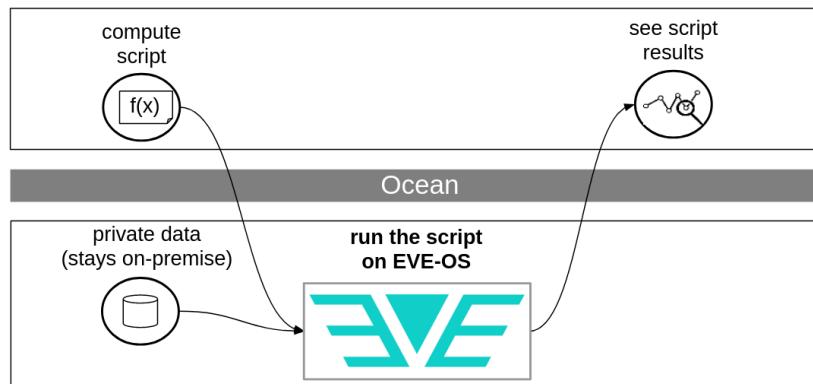
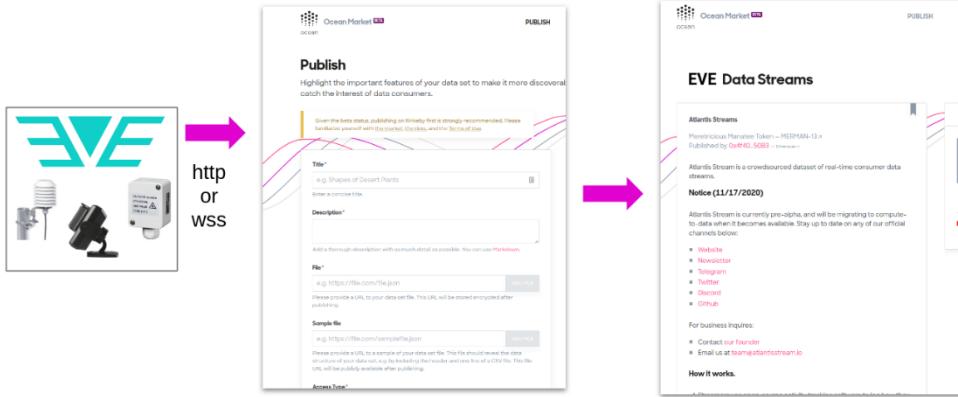
# We are at the birth of an Open Data Economy

- For the first time ever, **data as an asset**, on open yet privacy-preserving data markets
- Leveraging the tools of crypto, from data wallets to DAOs to DEXes
- An ecosystem has formed. 100+ projects, dozens of collaborators big and small



# There's opportunity in Ocean \* EVE

EVE-OS for data from the edge; EVE-OS running C2D. Grants available!



<https://oceanprotocol.com/dao>

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# Resources

Site [oceanprotocol.com](https://oceanprotocol.com)

Code [github.com/oceanprotocol](https://github.com/oceanprotocol)

Chat [discord.com/invite/TnXjkR5](https://discord.com/invite/TnXjkR5)

