

JORNADAS TECNICAS INDUSTRIAL TRACK 4.0 2022



EL POTENCIAL PARA LA INDUSTRIA DEL USO DE PORTALES ABIERTOS DE DATOS COMPARTIDOS: MVG GAIA-X

Sara Madariaga, Head of Arsys Lab, Arsys Internet

ESPACIO DE DATOS

- Los datos son un activo fundamental para las empresas.
- Muchas organizaciones se muestran recelosas al compartir sus datos, a pesar de ser conscientes de las ventajas:
 - Eficiencia en la cadena de suministro.
 - Enriquecimiento de analíticas internas.
 - Entrenamiento de sistemas de machine learning / IA.
 - Nuevas oportunidades de negocio.
 - Optimización de tiempo y costes.
- PROBLEMA: confianza.

ESPACIO DE DATOS (2)

- Ecosistema donde diversos actores comparten datos de manera voluntaria y segura, con mecanismos comunes de gobernanza, organizativos, normativos y técnicos.
 - Cada participante mantiene control sobre sus datos.
 - Habilita políticas de acceso y uso de la información.
 - Asegura la identidad de los participantes.
 - Permite crear roles: productor / consumidor de datos, proveedor de servicios, desarrollador de componentes, operador de servicios esenciales, ...
 - Puede certificar los componentes software empleados.
 - Estandariza descripciones y taxonomías.

GAIA-X WEB3 ECOSYSTEM

- Portal web de intercambio de datasets y algoritmos
 - Basado en blockchain (Ocean Protocol).
 - Asegura disponibilidad, transparencia, integridad y autenticidad por diseño.
 - Integra el paradigma “compute-to-data”.
 - Integra el Trust Framework definido por Gaia-X.
 - Self-descriptions.
 - Validación.
- Veamos cómo funciona: desafiando el efecto demo ;)

REFERENCIAS

- Este portal está siendo utilizado por varios proyectos del ecosistema de Gaia-X, incluyendo:
 - Minimal Viable Gaia-X demonstrator ([MVG](#)).
 - European Production Giganet ([EuProGigant](#)).
 - [Gaia-X 4 MovelID](#), parte de la familia [Gaia-X 4 Future Mobility](#).
 - [Portal de investigación](#) de la Universitat de Lleida.
- Ha sido desarrollado por la empresa alemana [deltaDAO](#) y liberado como código abierto, disponible en [GitHub](#).

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ACCESO

https://minimal-gaia-x.eu

gaia-x

Catalogue Publish Verify Ecosystem **Reconnecting...**

Pontus-X Gaia-X Web3 Ecosystem

0x4c02...8521
0x4c0227d02EDBb0C75F85782D4e8506eD77108521 ⓘ
GAIA-X Testnet ⓘ

0 Sales 1 Published

PUBLISHED DOWNLOADS COMPUTE JOBS

DATA SETS ALGORITHMS EDGE DEVICES DOWNLOAD COMPUTE

ENTORC-49
Test_Oct20
Test for demo purposes

DATA SET

GAIA-X Testnet

Setup MetaMask

To interact with the portal, you need to install and create an account with MetaMask

Hola de nuevo
La Web descentralizada espera

Contraseña

Desbloquear

¿Olvidó su contraseña?

¿Necesita ayuda? Comuníquese con Soporte de MetaMask

CATÁLOGO

[Catalogue](#)[Publish](#)[Verify](#)[Ecosystem](#) ▾[TEST](#)

0x4c02...8521

 Search for service offerings

395 results

[DATA SETS](#)[ALGORITHMS](#)[EDGE DEVICES](#)[DOWNLOAD](#)[COMPUTE](#)[SORT](#)[Relevance ▾](#)[Published](#)**CALSHA-66****Count Lines**

0x4c0...2E17

Count the lines of the first input file

1 OCEAN

ALGORITHM

GAIA-X Testnet

DILOTT-28**safeFBDC - Aggregation Algorithm**

0x0aec...8cdf

This service can only be consumed by authorized members of safeFBDC. Other processing requests ...

5 OCEAN

ALGORITHM

GAIA-X Testnet

ALGORITHM

GAIA-X Testnet

PARBAR-25**safeFBDC - AML Analysis Dataset**

0x0aec...8cdf

DATA SET

TENSHA-17**Privacy Preserving Business Analysis Dataset**

DATA SET

DATA SET

DAZPLA-77**Active Cloud Archive - Netorium AG**

0x04bB...C6BA

DESCRIPCIÓN DE UN SERVICIO (GAIA-X)

Mobility: Mobile Road Damage Detection EDGE

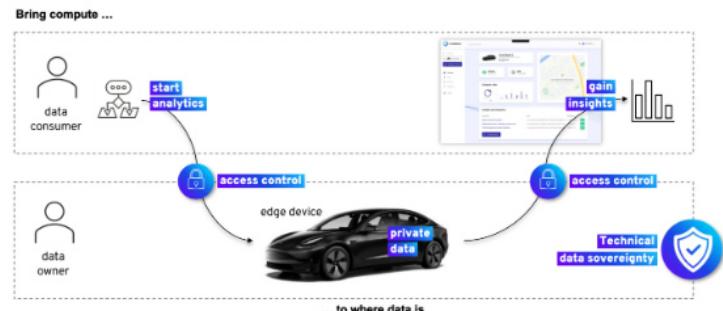
GAIA-X Testnet

DATA SET Empowered Prawn Token — EMPPRA-30

Published By [deltaDAO AG](#)
about 1 month ago — updated 22 days ago

Service Self-Description
version: 22.06
last check: less than a minute ago

About the use case



This use case demonstrates how algorithm and data providers can train and monetize their machine learning scripts by making them available in Gaia-X. At the same time consumers in Gaia-X can use existing and well-trained models for classification, analysis and forecasting without the need to share their data and/or acquire personnel or expensive services. The product can be used directly from the Gaia-X market.

Object detection is considered to be one of the most challenging tasks in the computer vision field. The algorithm YOLOv5 is a Convolutional Neural Network (CNN) for performing object detection in real-time. CNNs are classifier-based systems that can process input images as structured arrays of data and identify patterns between them (view image below). YOLO has the advantage of being much faster than other networks and still maintains accuracy.

Data providers approve AI algorithms to run on their data and then Compute-to-Data orchestrates remote computation and execution on data to train AI models while preserving the privacy of the data. Compute-to-Data (CtD) allows for privacy-preserving data-sharing, remote computation and data monetization and is a core feature and strong advantage of Ocean Protocol. CtD keeps the data on-premises and allows data consumers to run remote compute jobs on the data. Data owners keep full control as the data never leaves their premises and is only ever accessed by algorithms. CtD resolves the tradeoff between using private data and the risks of exposing it. Newly monetized data creates new revenue streams for data publishers. CtD is directly integrated into the Minimal Viable Gaia-X and third-

USE

plain 95.55 KB 1 OCEAN ≈ 0,17 €

Select an algorithm to start a compute job

Search by title, datatoken, or DID...

Mobility: Mobile Road Damage Detection Algorithm INVSHA-19 | did:op:4b42dfc40Ae829968De8142eb35f38a8b046D5FA

You will pay 2 OCEAN

BUY COMPUTE JOB

For using this dataset, you will buy 1 EMPPRA-30 and immediately spend it back to the publisher and pool. Additionally, you will buy 1 INVSHA-19 for the algorithm and spend it back to its publisher and pool.

Compute to data is not available because the edge device is not online.

Your Compute Jobs
No results found

Service Self-Description

```
{
  "selfDescriptionCredential": {
    "@context": [
      "https://www.w3.org/2018/credentials/v1",
      "https://registry.lab.gaia-x.eu/v206/api/shape"
    ],
    "type": [
      "VerifiableCredential",
      "ServiceOfferingExperimental"
    ],
    "id": "https://delta-dao.com/.well-known/serviceRoadData.json",
    "credentialsSubject": {
      "id": "did:op:00dd3550532A6dA0d0427E8ECbE4f40F315C1F3B",
      "gx-service-offering:providedBy": "https://delta-dao.com/.well-known/participantDeltaDAO.json",
      "gx-service-offering:name": "EMPPRA-30 Data for Road Damage Detection",
      "gx-service-offering:description": "This data service offering consists of image data for object detection and annotation.",
      "gx-service-offering:serviceModel": "subscription",
      "gx-service-offering:servicePrice": [
        {
          "gx-service-offering:servicePriceCurrency": "Ocean",
          "gx-service-offering:servicePriceValue": "1"
        }
      ],
      "gx-service-offering:subscriptionDuration": "86400",
      "gx-service-offering:Policies": "computeToDataOnly",
      "gx-service-offering:whitelistedUsage": [
        {
          "gx-service-offering:whitelistedUsageAlgorithm": "did:op:4b42dfc40Ae829968De8142eb35f38a8b046D5FA"
        }
      ],
      "gx-service-offering:webAddress": "https://portal.moveid.eu/asset/did:op:00dd3550532A6dA0d0427E8ECbE4f40F315C1F3B",
      "gx-service-offering:termsAndConditions": [
        ...
      ]
    }
  }
}
```

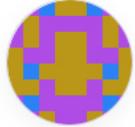
delta-dao tesla-model-3

OWNER	0x68C2...246B	DID	did:op:00dd3550532A6dA0d0427E8ECbE4f40F315C1F3B
METADATA HISTORY		* edited 22 days ago	

DESCRIPCIÓN DE UN PARTICIPANTE (GAIA-X)

```
{
  "selfDescriptionCredential": {
    "@context": [
      "https://www.w3.org/2018/credentials/v1",
      "https://registry.gaia-x.eu/v2206/api/shape"
    ],
    "type": [
      "VerifiableCredential",
      "LegalPerson"
    ],
    "id": "https://delta-dao.com/.well-known/participantDeltaDAO.json",
    "issuer": "did:web:delta-dao.com",
    "issuanceDate": "2022-09-23T23:23:23.235Z",
    "credentialSubject": {
      "id": "did:web:delta-dao.com",
      "gx-participant:legalName": "deltaDAO AG",
      "gx-participant:website": "https://delta-dao.com",
      "gx-participant:registrationNumber": [
        {
          "gx-participant:registrationNumberType": "leiCode",
          "gx-participant:registrationNumberNumber": "391200FJBNU0Yw987L26"
        },
        {
          "gx-participant:registrationNumberType": "EUID",
          "gx-participant:registrationNumberNumber": "DEK1101R.HRB170364"
        }
      ],
      "gx-participant:blockchainAccountId": [
        {
          "gx-participant:blockchainAccountId": "0x4C84a36fC0b78c750294A7f3B5ad5CA8F74C4A52"
        },
        {
          "gx-participant:blockchainAccountId": "0x2859d961a6dBa6e7d30b2d383Af468edb4E7F4f6"
        },
        {
          "gx-participant:blockchainAccountId": "0xaBaf56FC1bB6b4FF9fA4378C3C8723d2B2444324"
        },
        {
          "gx-participant:blockchainAccountId": "0x68C24FA5b2319C81b34f248d1f928601D2E5246B"
        },
        {
          "gx-participant:blockchainAccountId": "0xa76Fa6837A6ffc9F123F2193717A5965c68B0cba"
        }
      ],
      "gx-participant:headquarterAddress": {
        "gx-participant:addressCountryCode": "DE",
        "gx-participant:addressCode": "DE-HH",
        "gx-participant:streetAddress": "Geibelstraße 46b",
        "gx-participant:postalCode": "22303",
        "gx-participant:locality": "Hamburg"
      },
      "gx-participant:legalAddress": {
        "gx-participant:addressCountryCode": "DE",
        "gx-participant:addressCode": "DE-HH",
        "gx-participant:streetAddress": "Geibelstraße 46b",
        "gx-participant:postalCode": "22303",
        "gx-participant:locality": "Hamburg"
      },
      "gx-participant:termsAndConditions": "70c1d713215f95191a11d38fe2341faed27d19e083917bc8732ca4fea4976700"
    },
    "proof": {
      "type": "JsonWebSignature2020",
      "created": "2022-09-30T07:50:34.636Z",
      "proofPurpose": "assertionMethod",
      "verificationMethod": "did:web:delta-dao.com",
      "jws": "eyJhbGciOiJSUzI1NiIsImI2NCI6ZmFsc2UsImNyaXQiOlsiYjY0Il19..ahaxRhIT280-1n4v5qnQdrS
      wWFnvU94Mxw941UDetSoEv_vFVdziN1mJwr1iH91Tn8Ng_oG2r0SD0mrs-B6EzXS8J3MsT9oMUBH5mT-G_a77_48xde3Cts
      Q"
    }
  },
  "complianceCredential": {
    "@context": [
      "https://www.w3.org/2018/credentials/v1"
    ],
    "type": [
      "VerifiableCredential",
      "ParticipantCredential"
    ],
    "id": "https://catalogue.gaia-x.eu/credentials/ParticipantCredential/1664524239500",
    "issuer": "did:web:compliance.gaia-x.eu",
    "issuanceDate": "2022-09-30T07:50:39.500Z",
    "credentialSubject": {
      "id": "did:web:delta-dao.com",
      "hash": "8137ae4abc9b860813aae14330e3ba5b8231de330ae4c3b196b8b786a6c18f38"
    },
    "proof": {
      "type": "JsonWebSignature2020",
      "created": "2022-09-30T07:50:39.500Z",
      "proofPurpose": "assertionMethod",
      "verificationMethod": "did:web:compliance.gaia-x.eu"
    }
  }
}
```

ACTIVIDAD DE UNA WALLET

 **0x4C84...4A52**
0x4C84a36fCdb7Bc750294A7f3B5ad5CA8F74C4A52 [🔗](#)
GAIA-X Testnet [🔗](#)

355
Sales

5
Published

PUBLISHED

[DATA SETS](#) [ALGORITHMS](#) [EDGE DEVICES](#) [DOWNLOAD](#) [...](#)

MANPUF-56 [ALGORITHM](#)
Object Detection for the Future Mobility Marketplace
This data service offering consists of an object detection and annotation algorithm to identify ...
10 OCEAN [GAIA-X Testnet](#)

Build-1 [Smart Home Service](#)
This service contains:
domized sensor data for the demonstration of ...
Free [GAIA-X Testnet](#)

CERFIS-7 [ALGORITHM](#)
Demonstrator Algorithm Sensor Data
Algorithm is written in javascript. The algorithm will calculate averages, minimum and maximum...
1 OCEAN [GAIA-X Testnet](#)

BREOYS-75 [DATA SET](#)
Demonstrator Weather Sensor Data
This is a simple Sensor Weather Data Example in JSON format. The data is randomly generated ...
1 OCEAN [GAIA-X Testnet](#)

[PUBLISHED](#) **DOWNLOADS**

DATA SET	NETWORK	DATATOKEN	TIME
Demonstrator Algorithm Sensor ...	GAIA-X Testnet	CERFIS-7	about 1 month ago
Data Part No. 399 2022-08-30T1...	GAIA-X Testnet	EuProGigant-399	about 2 months ago
Data Part No. 400 2022-08-30T1...	GAIA-X Testnet	EuProGigant-400	about 2 months ago
Data Part No. 358 2022-08-23T0...	GAIA-X Testnet	EuProGigant-358	about 2 months ago
Example Highway Camera Data	GAIA-X Testnet	Move-1	2 months ago
Data Part No. 353 2022-08-05T1...	GAIA-X Testnet	EuProGigant-353	2 months ago
Data Part No. 319 2022-05-30T0...	GAIA-X Testnet	EuProGigant-319	3 months ago

DESCARGAR UN CONJUNTO DE DATOS (1)

Test a download

GAIA-X Testnet

↓ | DATA SET | Stunning Anemone Token — STUANE-6 ↗ | 🌐

Published By 0x68C2...246B
2 months ago

Test a download

SAMPLE DATA
[DOWNLOAD SAMPLE](#)

test

OWNER
0x68C2...246B

METADATA HISTORY
published 2 months ago ↗

Binary Free

Binary Free

USE

USE

GET

If you consume a service offering, your wallet address and public key will be stored permanently on-chain on the Gaia-X testnet. For more information, please refer to our [privacy policy](#).

If you consume a service offering, your wallet address and public key will be stored permanently on-chain on the Gaia-X testnet. For more information, please refer to our [privacy policy](#).

You bought this dataset already allowing you to use it without paying again.

DOWNLOAD

DESCARGAR UN CONJUNTO DE DATOS (2)

Synthetic Weather Data in JSON format

GAIA-X Testnet

DATA SET | deltaDAO Datatoken 001 — DDDT-001 ↗ | 

Published By [0x9c26...9580](#)
about 2 months ago — updated about 1 month ago

Service Description

Sample service description

OWNER [0x9c26...9580](#)

DID
did:op:236816a8997DC39598857590970c8Cf15
b8da047

METADATA HISTORY

edited about 1 month ago ↗
published about 2 months ago ↗

USE

 plain No price set ⓘ

Access denied, your wallet address is not found on the asset allow list.

BUY FOR 1 DAY

There are not enough DDDT-001 available in the pool for the transaction to take place

CONSUMIR UN CONJUNTO DE DATOS (CtD) (1)

Demonstrator Weather Sensor Data

GAIA-X Testnet

DATA SET | Breathtaking Oyster Token — BREOYS-75 | 

Published By [0x4CB4...4A52](#)
about 1 year ago — updated 3 months ago

This is a simple Sensor Weather Data Example in JSON format. The data is randomly generated "weather" data in the following format:

```
{
  "date": [...],
  "temperature": [...],
  "humidity": [...],
  "rain": [...],
  "windSpeed": [...],
  "windDir": [...],
  "invalidTest": ""
}
```

Each key is assigned to an array of values, except the `invalidTest` key, which demonstrates an invalid value for testing purposes with our algorithm: [Demonstrator Algorithm](#)  Weather Data / Sensor Data

The data is generated using the following configuration:

```
{
  temperature: {
    min: -10,
    max: 35
  },
  humidity: {
    min: 40,
    max: 100
  },
  rain: {
    min: 0,
    max: 20
  },
  windSpeed: {
    min: 0,
    max: 12
  },
  windDir: ["N", "NE", "E", "SE", "S", "SW", "W", "NW"]
}
```

Additional Samples

[Download Sample Data](#)

USE

plain 122 KB

1 OCEAN ≈ 0,17 €

Select an algorithm to start a compute job

Search by title, datatoken, or DID...

Demonstrator Algorithm Sensor Data ↗
CERF15-7 | did:op:b3f2d84acfb6a84cd80cb66dA209008E3f1A643

You will pay - OCEAN ⓘ

BUY COMPUTE JOB

You do not have enough OCEAN in your wallet to purchase this asset.

If you consume a service offering, your wallet address and public key will be stored permanently on-chain on the Gaia-X testnet. For more information, please refer to our [privacy policy](#).

Your Compute Jobs SHOW ↴

```
{
  "date": [
    "1/1/2010",
    "1/2/2010",
    "1/3/2010",
    "1/4/2010",
    "1/5/2010"
  ],
  "temperature": [
    33.38,
    -6.5,
    22.4,
    29.29,
    -0.97
  ],
  "humidity": [
    59.45,
    48.41,
    78.84,
    45,
    89.82
  ],
  "rain": [
    4.15,
    1.07,
    0.98,
    5.46,
    19.35
  ],
  "windSpeed": [
    6.54,
    1.09,
    8.39,
    11.48,
    6.51
  ],
  "windDir": [
    "N",
    "NE",
    "E",
    "SE",
    "S",
    "SW",
    "W",
    "NW"
  ],
  "invalidTest": ""
}
```

CONSUMIR UN CONJUNTO DE DATOS (CtD) (2)

Demonstrator Algorithm Sensor Data

GAIA-X Testnet

Published By [0x4CB4...4A52](#)

about 1 year ago — updated about 2 months ago

Algorithm is written in javascript. The algorithm will calculate averages, minimum and maximum for each array. If a date-field is given it will also link min and max values to their corresponding dates. Dates are expected to have one of the following keys:

```
[ "date", "datetime", "day" ]
```

The algorithm expects JSON input following the structure of our sample data set ([Demonstrator Data](#)  [Weather Data / Sensor Data](#)):

```
{
  "date": [...],
  "temperature": [...],
  "humidity": [...],
  "rain": [...],
  "windSpeed": [...],
  "windDir": [...],
  "invalidTest": ""
}
```

Any keys are processed, as long as the assigned value is an array of values. Non array values are not considered for calculations.

Sample Output

The algorithm will log some system information about the wrapping container as well as progress on calculation. The result is a JSON file containing the calculated results:

```
{
  "fileCount": 1,
  "files": {
    "/data/inputs/c91B8Ee840fb70282C5B38a7d1654f955803822a/0": {
      "numLines": 123,
      "avg": {...},
      "min": {...},
      "max": {...}
    }
  }
}
```

Additional Samples

- [Download Sample Data](#)
- [Download Sample Algorithm](#)

USE

plain **1 OCEAN**
≈ 0,17 €

BUY FOR 1 DAY

For using this algorithm, you will buy 1 CERFIS-7 and immediately spend it back to the publisher and pool.

If you consume a service offering, your wallet address and public key will be stored permanently on-chain on the Gaia-X testnet. For more information, please refer to our [privacy policy](#).

Datasets algorithm is allowed to run on

Smart Home Sensor Data for BIM
Build-1 | did:op:4f4496643416106368edb483892985a806714AAA 0

Demonstrator Weather Sensor Data
BREOYS-75 | did:op:871526582e3885Cc6948E9763b9e0c22eA812448 1

```

try {
  result.files[filepath].length[key] = array.length
  result.files[filepath].sum[key] = 0
  result.files[filepath].avg[key] = 0
  result.files[filepath].min[key] = { ...ranges }
  result.files[filepath].max[key] = { ...ranges }

  array.forEach((value, i) => {
    //Calculate sums
    result.files[filepath].sum[key] += parseFloat(value)
    //Calc min
    const min = result.files[filepath].min[key].value
    if(value < min || min === null) {
      result.files[filepath].min[key].value = value
      if(dateField !== null)
        result.files[filepath].min[key].date = data[dateField][i] || 'N/A'
    }
    //Calc max
    const max = result.files[filepath].max[key].value
    if(value > max || max === null) {
      result.files[filepath].max[key].value = value
      if(dateField !== null)
        result.files[filepath].max[key].date = data[dateField][i] || 'N/A'
    }
  })
  //Calculate avg
  for (const [key, sum] of Object.entries(result.files[filepath].sum)) {
    result.files[filepath].avg[key] = sum / result.files[filepath].length[key]
  }
} catch (err) {
  console.error(err)
}
} delete result.files[filepath].sum
delete result.files[filepath].length
console.log(`Results calculated.`)
}

```

CONSUMIR UN CONJUNTO DE DATOS (CtD) (3)

The screenshot shows a web-based interface for managing data sets and running algorithms. At the top, there are tabs for 'PUBLISHED', 'DOWNLOADS', and a prominent 'COMPUTE JOBS' button. Below this is a 'REFRESH' button. The main area displays a table with columns: DATA SET, NETWORK, CREATED, FINISHED, STATUS, and ACTIONS. Three data sets are listed: 'Demonstrator Weather ...' (GAIA-X Testnet, 5 minutes ago, 4 minutes ago, JOB FINISHED, 'SHOW DETAILS'), '4-apples_GT_diameter...' (GAIA-X Testnet, about 1 month ago, about 1 month ago, JOB FINISHED, 'SHOW DETAILS'), and 'some strings' (GAIA-X Testnet, about 2 months ago, about 2 months ago, JOB FINISHED, 'SHOW DETAILS'). A red box highlights the 'SHOW DETAILS' button for the first data set. A red arrow points from this box to a detailed view of the algorithm results.

DATA SET	NETWORK	CREATED	FINISHED	STATUS	ACTIONS
Demonstrator Weather ...	GAIA-X Testnet	5 minutes ago	4 minutes ago	JOB FINISHED	SHOW DETAILS
4-apples_GT_diameter...	GAIA-X Testnet	about 1 month ago	about 1 month ago	JOB FINISHED	SHOW DETAILS
some strings	GAIA-X Testnet	about 2 months ago	about 2 months ago	JOB FINISHED	SHOW DETAILS

A detailed view of a running algorithm. The title is 'Running algorithm'. It shows two data sets: 'Demonstrator Weather Sensor Data' (BREOYOS-75) and 'Demonstrator Algorithm Sensor Data' (CERFIS-7). The 'Demonstrator Algorithm Sensor Data' section has a red box around the 'results.json' file. A red arrow points from this box to the JSON data on the right. Below the data sets, it says 'Results are stored for 30 days.' At the bottom, it shows 'CREATED' (2 minutes ago) and 'JOB ID' (6542f960e01044f1a10047320a32e815).

```
"numLines": 10970,  
"avg": {  
  "temperature": 13.029282584885,  
  "humidity": 69.88985213581596,  
  "rain": 10.116653888280377,  
  "windspeed": 5.93285323110624,  
  "winddir": null  
},  
"min": {  
  "temperature": {  
    "value": -9.91,  
    "date": "5/13/2014"  
  },  
  "humidity": {  
    "value": 40.03,  
    "date": "5/30/2011"  
  },  
  "rain": {  
    "value": 0,  
    "date": "11/13/2012"  
  },  
  "windspeed": {  
    "value": 0.01,  
    "date": "7/24/2010"  
  },  
  "winddir": {  
    "value": "E",  
    "date": "1/3/2010"  
  }  
},  
"max": {  
  "temperature": {  
    "value": 34.99,  
    "date": "3/22/2011"  
  },  
  "humidity": {  
    "value": 99.99,  
    "date": "2/24/2013"  
  },  
  "rain": {  
    "value": 19.97,  
    "date": "3/30/2013"  
  },  
  "windspeed": {  
    "value": 12,  
    "date": "9/12/2012"  
  },  
  "winddir": {  
    "value": "W",  
    "date": "1/20/2010"  
  }  
}
```

PUBLICAR UN CONJUNTO DE DATOS (1)

Publish

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

DATA SET**ALGORITHM**

Publish a Data Set into GAIA-X Testnet ⓘ

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](#). You can change the description at any time. Please do not provide personal data in the description. Your description will remain permanently on-chain on the Gaia-X testnet. For more information, please refer to our [privacy policy](#).

File *

e.g. <https://file.com/file.json>

ADD FILE

Please enter the URL to your data set file and click "ADD FILE" to validate the data. This URL will be stored permanently encrypted on-chain on the Gaia-X testnet after publishing. For a compute data set, your file should match the file type required by the algorithm.

Sample file

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

ADD FILE

Please enter the URL to a sample of your data set file and click "ADD FILE" to validate the data. 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.

Service Self-Description

Url**Raw**

Please enter the URL to a valid service self-description and click "ADD FILE" to validate the data. This file URL and its content will be publicly available after publishing.

Access Type ***Download****Compute**

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

Timeout ***Forever**

Define how long buyers should be able to download the data set again after the initial purchase.

Datatoken Name & Symbol *

Egregious Lobster Token — EGRLOB-28 ⓘ

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

Tags

e.g. logistics, ai

Separate tags with comma.

Metadata confirmation *

I confirm that I did not provide personal data in the metadata, which will be stored permanently on-chain on the Gaia-X testnet.

SUBMIT**RESET FORM**

When you click submit, your wallet address and public key will be transmitted to a smart contract stored permanently on-chain on the Gaia-X testnet.

PUBLICAR UN CONJUNTO DE DATOS (2)

Test_Oct20

GAIA-X Testnet

No Price Created
This data set has no price yet. As the publisher you can create a fixed price, or a dynamic price for it. Onwards!

CREATE PRICING

DATA SET | Enthusiastic Orca Token — ENTORC-49 |

Published By [0x4c02...8521](#) Add profile on 3Box ↗
3 minutes ago

Test for demo purposes

SAMPLE DATA
[DOWNLOAD SAMPLE](#)

[EDIT METADATA](#) | [EDIT ADVANCED SETTINGS](#) | [EDIT COMPUTE SETTINGS](#)

OWNER
[0x4c02...8521](#) Add profile on 3Box ↗

DID
did:op:940a8e5d53Aca98a9eD0903215866F737
57F9e9b

METADATA HISTORY

- published 3 minutes ago ↗

USE

No price set ⓘ

Select an algorithm to start a compute job

Search by title, datatoken, or DID...

No assets found.

You will pay - ⓘ

BUY COMPUTE JOB

There are not enough ENTORC-49 available in the pool for the transaction to take place

If you consume a service offering, your wallet address and public key will be stored permanently on-chain on the Gaia-X testnet. For more information, please refer to our [privacy policy](#).

Your Compute Jobs [SHOW ▾](#)

PUBLICAR UN CONJUNTO DE DATOS (3)

Test_Oct20

Update advanced settings of this data set. Updating these settings will create an on-chain transaction you have to approve in your wallet.

Allow ETH Address

e.g. 0x12345678901234567890abcd ADD

Enter ETH address and click ADD button to append the list. Only ETH address in allow list can consume this asset. If the list is empty means anyone can download or compute this asset

Deny ETH Address

e.g. 0x12345678901234567890abcd ADD

Enter ETH address and click ADD button to append the list. If ETH address is fall under deny list, download or compute of this asset is denied

Disable Consumption

Disable

Disable dataset being download or compute when dataset undergoing maintenance.

SUBMIT CANCEL

Set allowed algorithms

Selected Algorithms

Search by title, datatoken, or DID...

<input type="checkbox"/> Encryption PKI service ↗ SPAPRA-31 did:op:008A1e18d69fB8647fa1C52533878cba70839d03	Free
<input type="checkbox"/> Encryption service ↗ DIEDMAR-7 did:op:7CE9982dF69f5F31f441568Ae848aFd8301879A7	Free
<input type="checkbox"/> Extract text from Images with optical character recognition (OCR) Algorithm. ↗ WONCLA-42 did:op:95dA1E2272ACE4d3eE844420E4C51Abf5aAd9963	1
<input type="checkbox"/> BIMKIT Text localization in architectural floor plans algorithm ↗ STUTUN-17 did:op:54699ab2D095aF7CEAdDc13B27e97542CDaa0896	1
<input type="checkbox"/> Compression service ↗ CLEIKRT-33 did:op:22a31f59c0C8a08368D31e67DF74649593b3AB44	Free
<input type="checkbox"/> Mobility: Behavior Based Risk Scoring Algorithm ↗ ENDSEA-35 did:op:8455d8F250245A5cBbf449131eca7d1545C833A9	1
<input type="checkbox"/> Replace 'a' with 'b' as Compute2Data containerized5 ↗ SERDOL-61 did:op:66df241a79806edF8778426621cFB8c5010cd332	Free
<input type="checkbox"/> Industry 4.0 production - Ceto-002 Edge Algorithm ↗ JOCHER-62 did:op:4242a2ae946dB273A0CCDE5F9127c24904DC1BA1	1
<input type="checkbox"/> Industry 4.0 production - Ceto-001 Edge Algorithm ↗ ASTANC-11 did:op:690563A3f704aE35d32764834334e98264A7a06A	1
<input type="checkbox"/> Object Detection for the Future Mobility Marketplace ↗ MANPUF-56 did:op:985d3E0134bCE4d82b98d639d5d83627DE687870	10

Choose one or multiple algorithms you trust to allow them to run on this data set.

All Algorithms

Allow any published algorithm

Allow any published algorithm to run on this data set.