



Funded by
the European Union

RAISE

Research Analysis Identifier

Rent and Process Data with Trust

Evdokimos Konstantinidis
Project Coordinator of RAISE

raise-science.eu

Consortium

20

Partners

4.836.125€

EU funding

10

Countries


40

Months






***Access and Process
Data with Trust!***



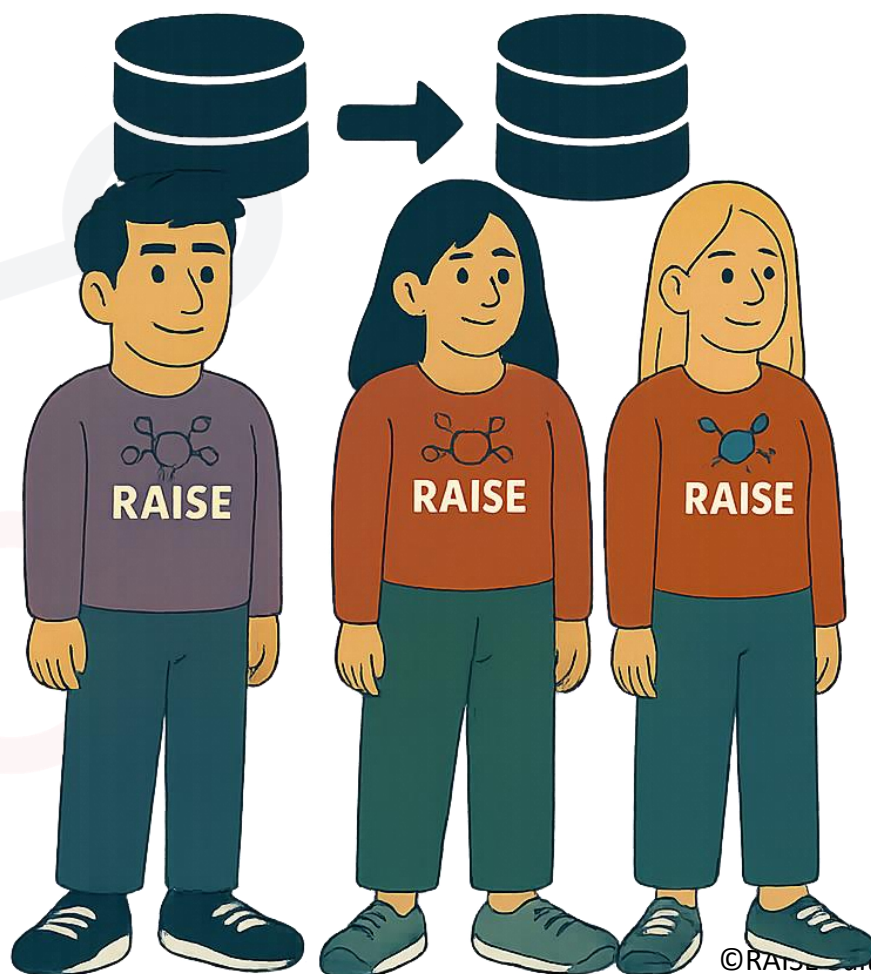
Our VISION is Open Science where **every researcher will be accredited for their work** and **all research data will be equally accessible** for processing **without violating** data protection regulations.



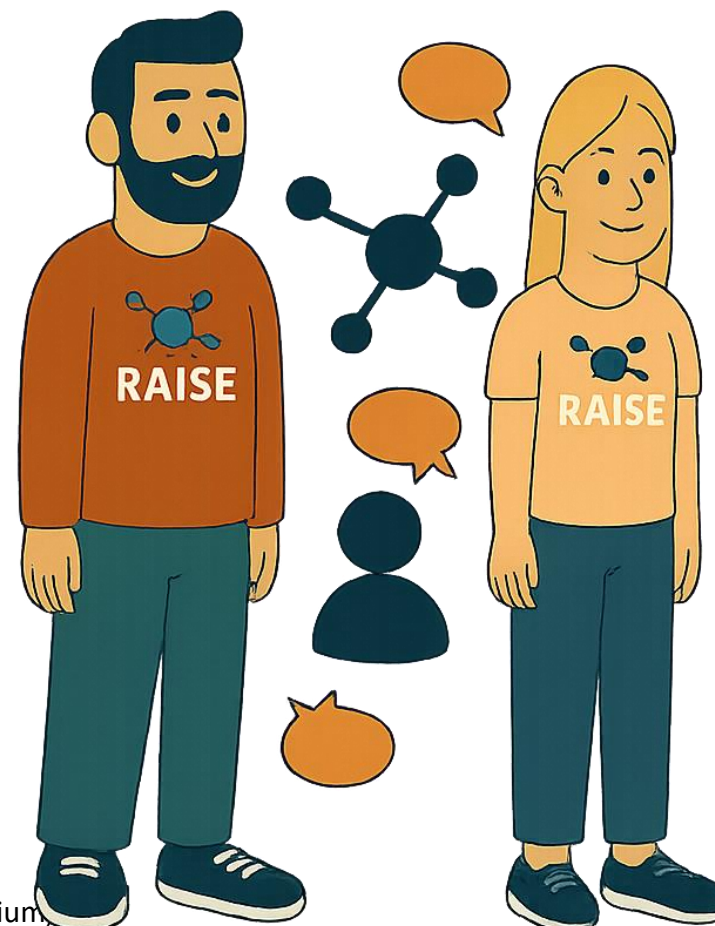
Our mission is a **distributed crowdsourced data processing system**, moving from **open data to data open for processing**. RAISE will provide the mechanism for sending the algorithm to the dataset.

Data sharing and Data spaces democratization


DATA SHARING DEMOCRATIZATION



DATA SPACES DEMOCRATIZATION




Peer-to-Peer Home Renting Platforms

 Lets you offer homes
for rent

 **Guests**
Travelers book homes

RAISE

 Lets you give access to your
datasets **stored only** on your
premises

 **Visiting Algorithms**
Algorithms visit datasets

Like Home Renting Platforms let you visit homes, RAISE allows your algorithm to visit the data you need

Like Home Renting Platforms let you rent your home with trust, RAISE enables your data to be processed by others with trust and control

We designed **the peer-to-peer platform** for Research Data



**privacy
protection**



**ownership
accreditation**



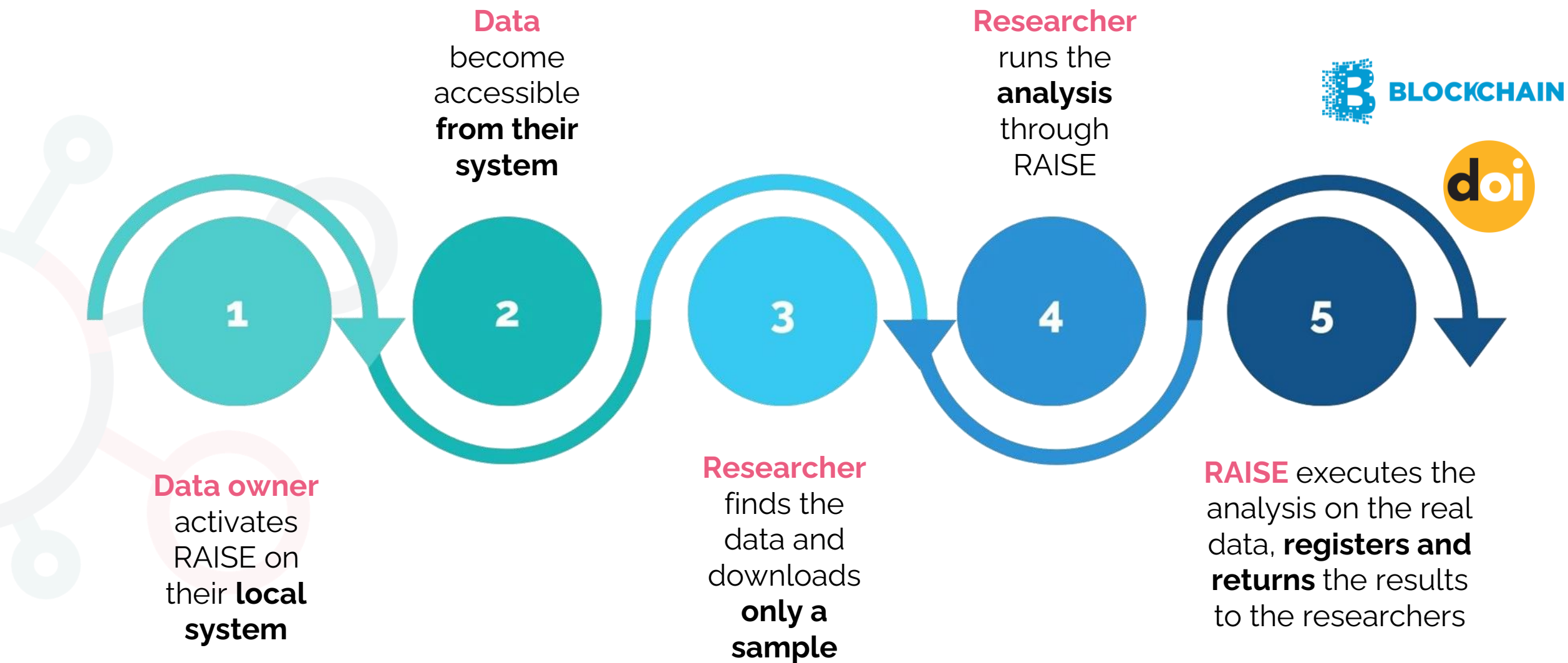
compliance



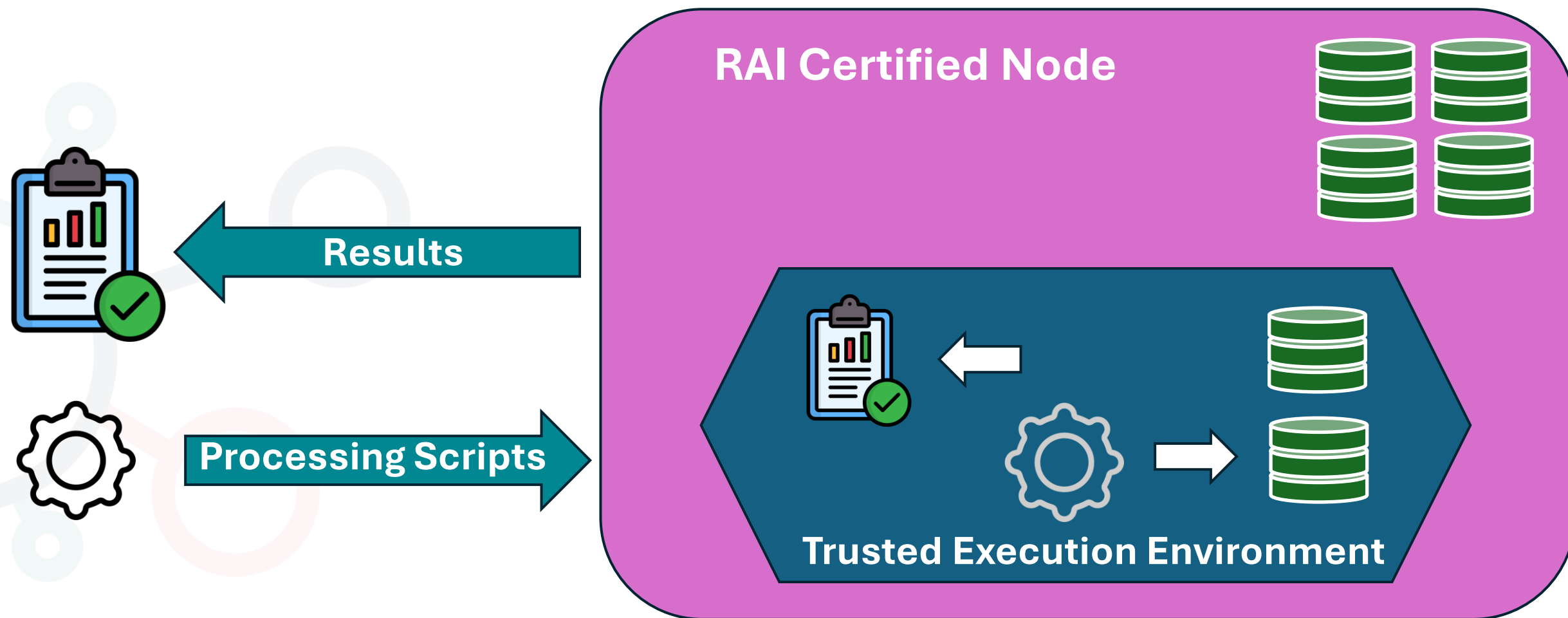
traceability

Trust through **Data Visiting**

DATA VISITING LIFE CYCLE



Trusted Execution Environment



Where to store my datasets



Upload your dataset to a **public certified node**



Deploy your **own node** at your premises.
Optionally, configure it as **private** so that only
authorized users can store their datasets there

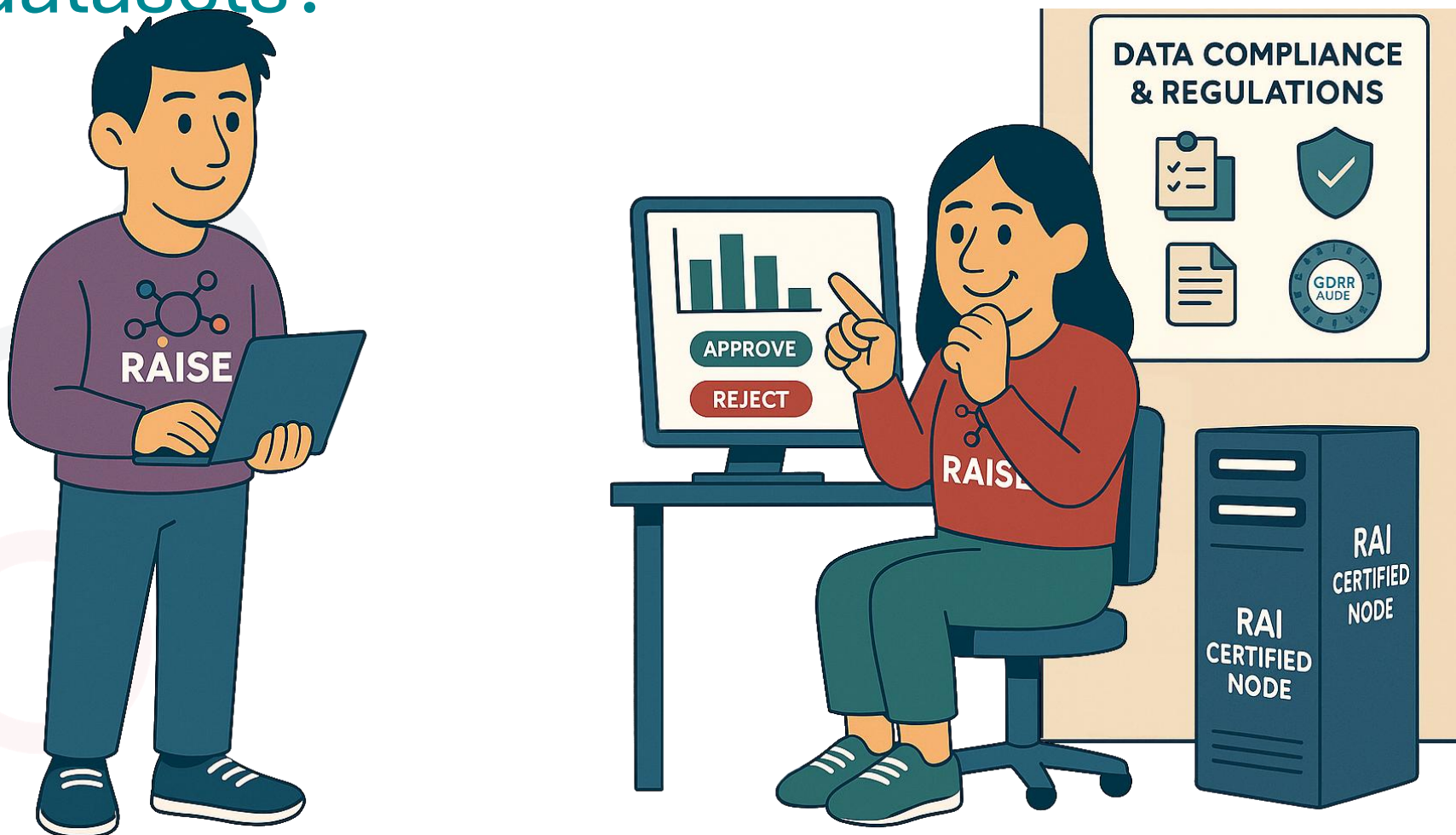
Who can process my datasets



Allow all users to process your dataset, **knowing always who processed** them. Optionally, you can deny access to any user.

Set your datasets to require **access request**. **Grant or deny access** to the requests or even change your decision at any time.

How can I make sure others cannot go against my principles or other regulations by processing my datasets?



Once the results produced, the data user does not have access to them until the **data owner audits and approves/rejects** them.

I want to facilitate others using my dataset, to increase the impact of my data.

eosc | RAISE

Evdokimos Konstantinidis
evdokimosk@gmail.com

Dashboard

Datasets

Scripts

Experiments

Dataset Marketplace

Dataset Access Requests

Experiment Result Approvals

RAI Finder

Nodes

3 nodes online
5 total nodes

RAISE Consortium questionnaire (second year)

Details

ID : 08dd5ce6-af33-42e9-8c65-926b896527cf

PID : 21.T15999/raise/dataset/08dd5ce6-af33-42e9-8c65-926b896527cf

Node : AUTH

Extension : XLSX

Language : English

Created : March 6, 2025

Category : Health Sciences

Creator : Evdokimos Konstantinidis

License : CC-BY

Contributors : Evdokimos Konstantinidis

Similarity Score : Pending

Description

This is the excel file with the responses of the questionnaire for the RAISE WPs management quality.

Publications 1

doi 10.3390/bdccc8...

Download Sample

Reupload Sample

Project templates

Python for VS Code

Template Scripts 1

Script parser for RAISE Consortium questionnaire (second year)

Parser for the excel responses

Linked Datasets 1

EEG EDF Ale test

dokimi

Dataset Trends

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101007990

Dataset Marketplace

30 datasets

Here, you can view & request access to all available datasets



Search Datasets



SeizeIT2: Participants 101 to 110

ZIP • Health Sciences • 

Creator: Nikos Melanitis

Uploaded 2 days ago

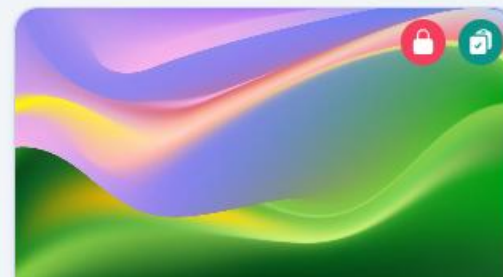


Source code refactorings v4

ZIP • Physical Sciences • 

Creator: Nikolaos Nikolaidis

Uploaded 2 hours ago



Accelup usage data

XLSX • Social Sciences & Humanities • 

Creator: Despoina Petsani

Uploaded 2 days ago



OHDSI dummy 15

CSV • Health Sciences • 

Creator: manoshatzak

Uploaded 3 days ago



Test

CSV • Health Sciences • 

Creator: Nikos Athanasopoulos

Uploaded 2 days ago



Fitbit data

XLSX • Health Sciences • 

Creator: Despoina Petsani

Uploaded 2 days ago



Fitbit Dataset Testing

XLSX • Health Sciences • 

Creator: Nikos Athanasopoulos

Uploaded 2 days ago



MAIN

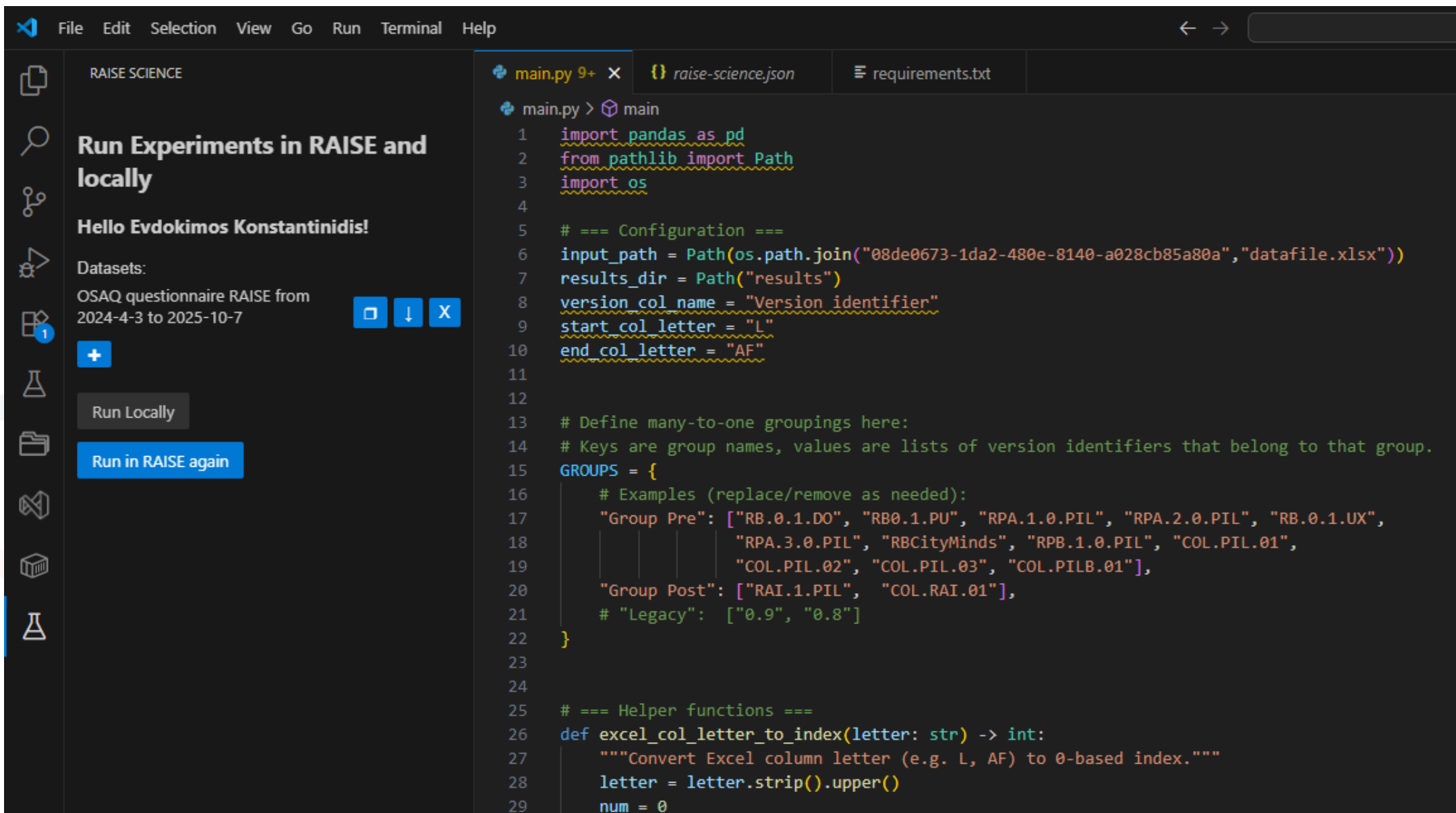
CSV • Life Sciences • 

Creator: Klein Ramiro

Uploaded 25 days ago



Use IDE to prepare the algorithm on the sample dataset



The screenshot displays the RAISE IDE interface. On the left sidebar, under "Run Experiments in RAISE and locally", there is a message "Hello Evdokimos Konstantinidis!" and a list of datasets. The first dataset is "OSAQ questionnaire RAISE from 2024-4-3 to 2025-10-7". Below this, there are buttons for "Run Locally" and "Run in RAISE again".

The main editor area shows a Python file named `main.py` with the following code:

```
main.py 9+ x raise-science.json requirements.txt
main.py > main
1 import pandas as pd
2 from pathlib import Path
3 import os
4
5 # === Configuration ===
6 input_path = Path(os.path.join("08de0673-1da2-480e-8140-a028cb85a80a", "datafile.xlsx"))
7 results_dir = Path("results")
8 version_col_name = "Version identifier"
9 start_col_letter = "L"
10 end_col_letter = "AF"
11
12
13 # Define many-to-one groupings here:
14 # Keys are group names, values are lists of version identifiers that belong to that group.
15 GROUPS = {
16     # Examples (replace/remove as needed):
17     "Group Pre": ["RB.0.1.DO", "RB0.1.PU", "RPA.1.0.PIL", "RPA.2.0.PIL", "RB.0.1.UX",
18                 "RPA.3.0.PIL", "RBCityMinds", "RPB.1.0.PIL", "COL.PIL.01",
19                 "COL.PIL.02", "COL.PIL.03", "COL.PILB.01"],
20     "Group Post": ["RAI.1.PIL", "COL.RAI.01"],
21     # "Legacy": ["0.9", "0.8"]
22 }
23
24
25 # === Helper functions ===
26 def excel_col_letter_to_index(letter: str) -> int:
27     """Convert Excel column letter (e.g. L, AF) to 0-based index."""
28     letter = letter.strip().upper()
29     num = 0
```


Send algorithm to the dataset through RAISE



Static analysis before the **code** is executed. A short summary of what the code will do, along with potential hazardous actions are produced.



Apply the code on the shareable version of the dataset to audit the results and detect code execution anomalies.

RAISE Consortium questionnaire (second year) - 4

Details

Registered



Script Used in Experiment

Konstantinidis, E., Epelde, G., Tsimpita, K., Vasilopoulou, E., Hernandez, M., Athanasopoulos, N., Fernández, M., Bamidis, D., Katertsidis, N., Natsos, D., Nikolaidis, N., Symeonidis, A., Chatzigeorgiou, A., Kouris, I., Konstantinidis, G., Josep Maria, S. G., Dimos, T., ... Bamidis, P. (2025). *RAISE Open Science Attitude Questionnaire*. <https://doi.org/10.82136/275>

Author

Evdokimos Konstantinidis

PID

10.82136/275

<http://doi.org/10.82136/275>

Results Access level

☒ Results can be downloaded by other users

Download Results

Datasets Used in Experiment

RAISE Consortium
questionnaire...

Approved

Uploaded By
Evdokimos Konstantinidis

I want others to be able to see the results of my experiment when they resolve RAI through doi.org

The screenshot displays the RAISE Consortium questionnaire (second year) - 4 interface. A modal dialog is open, asking for confirmation to change the experiment's result access level. The background interface shows details for the experiment, including its name, run date, node, author, and PID. A sidebar on the left lists navigation options like Datasets, Scripts, Projects, Dataset Marketplace, Dataset Access Requests, Experiment Result Approvals, RAI Finder, and Nodes. The right sidebar shows the script used in the experiment and datasets used. The bottom status bar indicates 20 Online Nodes and 26 Total Nodes.

RAISE Consortium questionnaire (second year) - 4

Details Registered

Name
RAISE Consortium questionnaire (second year) - 4

Run Date
Jan 11, 2026, 1:11

Node
AUTH

Author
Evdokimos Konstantinidis

PID
10.82136/275

Results Access level
☐ Results can be downloaded only by you

Script Used in Experiment
RAISE Consortium questionnaire (second year)...
Uploaded By: Evdokimos Konstantinidis

Datasets Used in Experiment
RAISE Consortium questionnaire...
Uploaded By: Evdokimos Konstantinidis Approved

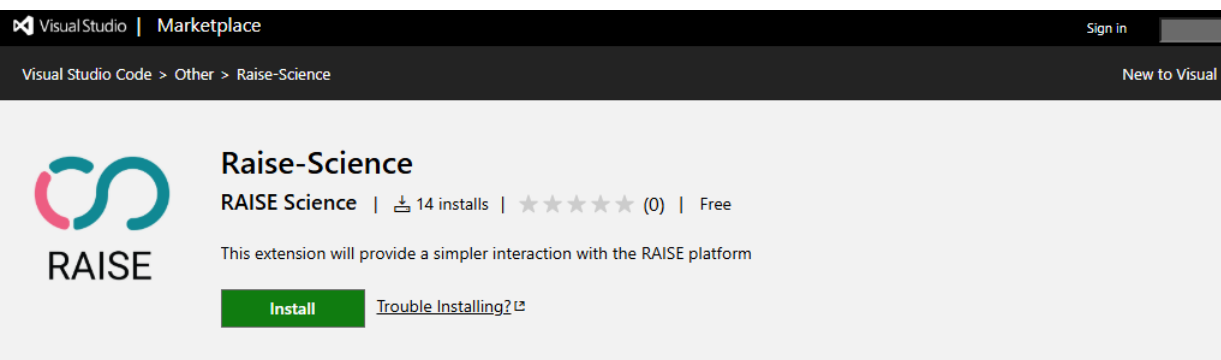
Change experiment's result access level
Are you sure you want to allow other users to download the results of the experiment?

Download Results

20 Online Nodes | 26 Total Nodes


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101007990

IDE Plugins, SDKs, Libraries and APIs



Visual Studio | Marketplace

Visual Studio Code > Other > Raise-Science

 **Raise-Science**
RAISE Science | 14 installs | ★★★★★ (0) | Free

This extension will provide a simpler interaction with the RAISE platform

[Install](#) [Trouble Installing?](#)

[Overview](#) [Version History](#) [Q & A](#) [Rating & Review](#)

VSCode extension

For using in development environment, you can download the .vsix file from this repo [here](#).

And then from your VS Code, you can open the "Extensions" view (or Ctrl + Shift + X), select the three dots in the top right of the view, select the last option "Install from VSIX", and select the downloaded file.

Functionalities

- Download Sharable datasets
- Create initial Python file
- Add read function in Python file
- Upload and Execute experiment
- Usage of multiple datasets

Categories

Other

Tags

eosc open data science

Works with

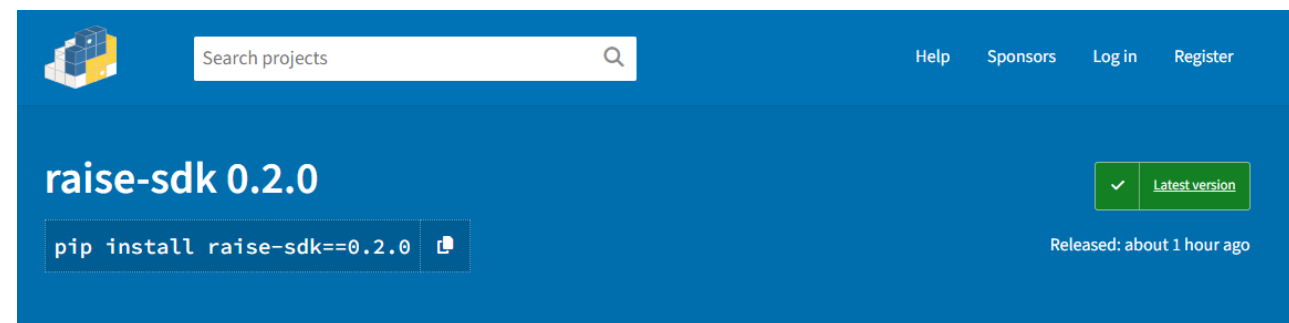
Universal

Resources

[License](#)
[Changelog](#)

More Info

Version 0.0.7



Search projects

raise-sdk 0.2.0 [Latest version](#)

`pip install raise-sdk==0.2.0`

Released: about 1 hour ago

RAISE Software Development Kit

Navigation

[Project description](#)


[Release history](#)

[Download files](#)

Verified details

These details have been [verified by PyPI](#)

Maintainers

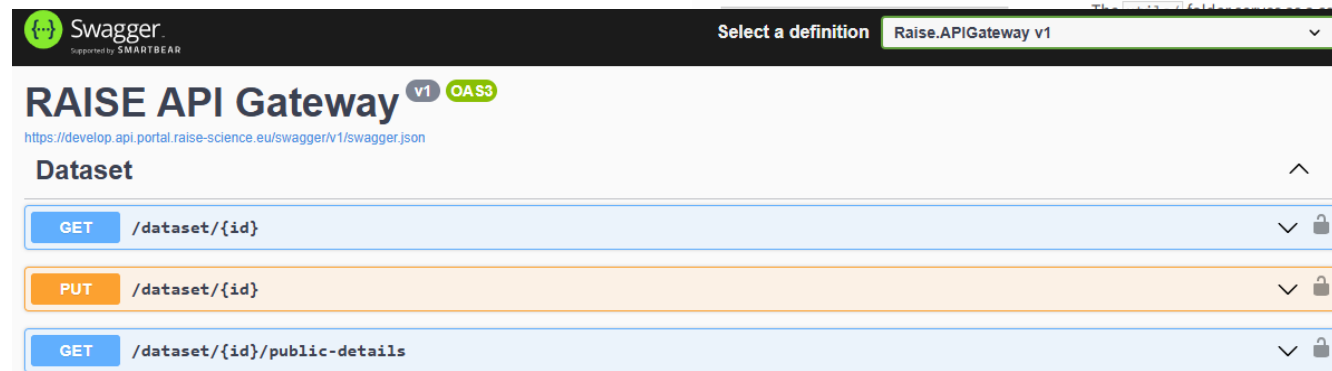
 [raise-science](#)

Project description

RAISE SDK

A software development kit for interacting with the core functionalities of the RAISE project. At the moment, it includes one submodule, [revo](#) (i.e. Remote Execution Validation Operations), and a [utils](#) folder.

- **REVO (Remote Execution Validation Operations)**
The REVO module is designed to implement the core functionalities of the RAI Processing Script Manager, enabling seamless execution and management of Python scripts for experiments. It is designed to automate key tasks such as managing dependencies, handling dataset selection, and running the main Python script, while also ensuring proper validation throughout the process. By integrating these features, REVO ensures that experiments are executed efficiently and with accurate logging, while validating the execution environment and providing detailed results for further analysis.
- **Utils**
The [utils](#) folder contains a collection of utility modules that provide reusable, convenient, and well-



Swagger
Supported by SMARTBEAR

Select a definition **Raise.APIGateway v1**

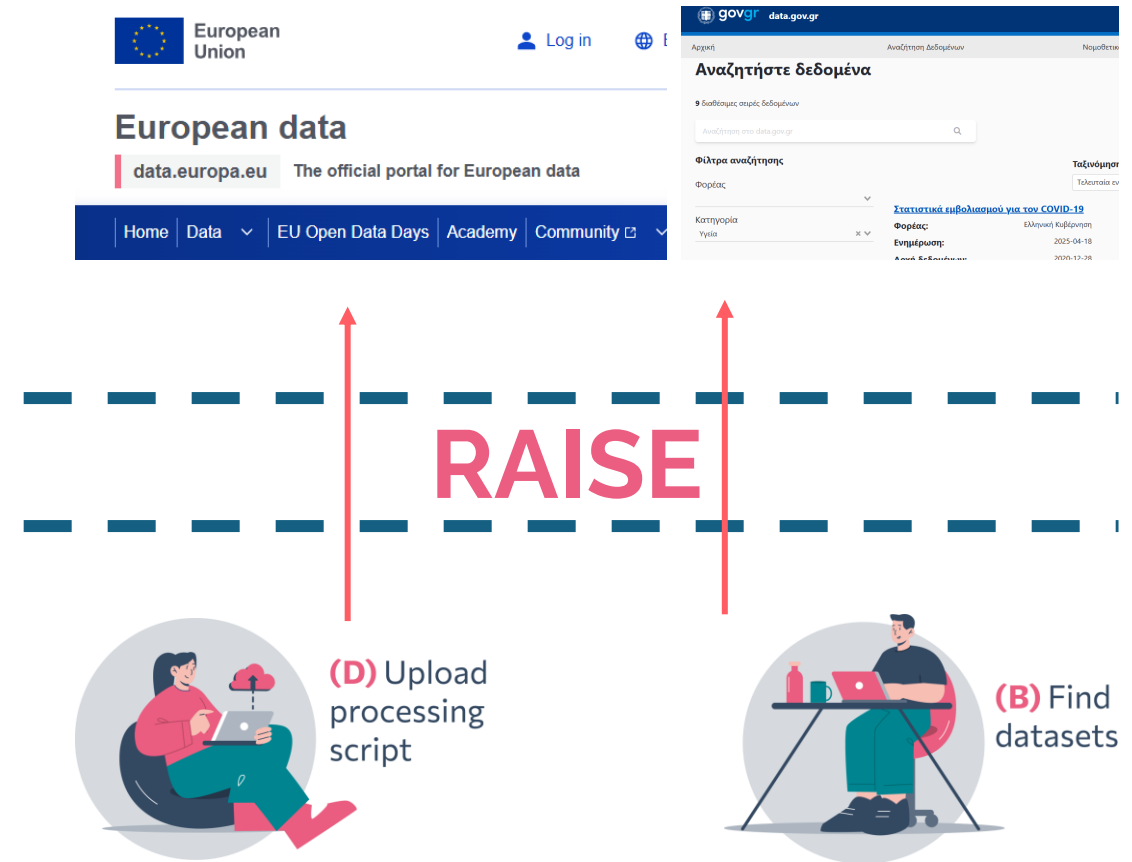
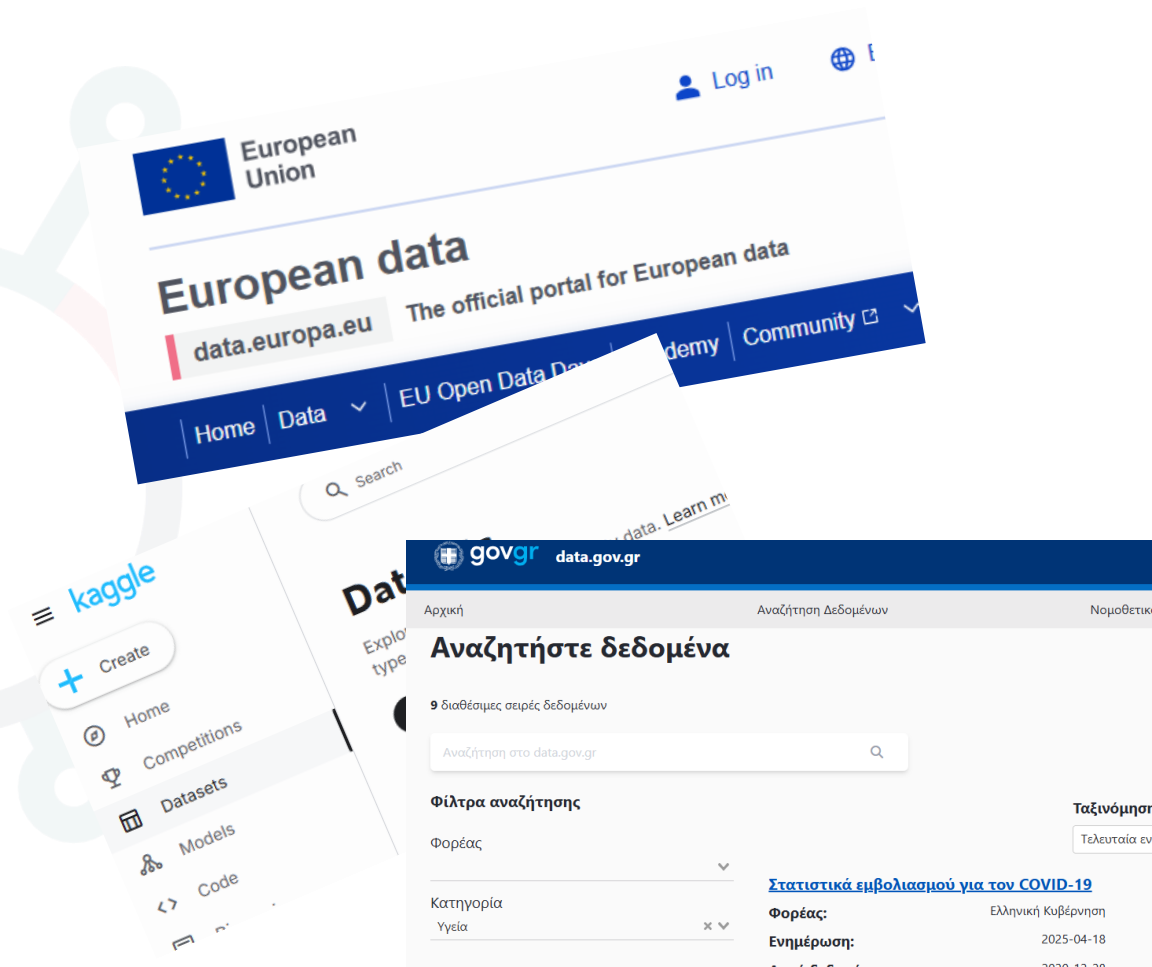
RAISE API Gateway V1 OAS3
<https://develop.api.portal.raise-science.eu/swagger/v1/swagger.json>

Dataset

GET	/dataset/{id}	⌵	🔒
PUT	/dataset/{id}	⌵	🔒
GET	/dataset/{id}/public-details	⌵	🔒

RAISE is not just another data portal

RAISE is the infrastructure for providing access to data



The Aristotle University of Thessaloniki can provide storage to key stakeholders for providing access to their data

RAISE System features

- **Data owners can deploy their nodes in their premises**, storing their data there.
- **Datasets remain on-premises**; only approved algorithms can run on them.
- **Metadata of datasets are searchable** to help researchers discover datasets.
- **Only a sample** (or synthetic version) of the dataset **is downloadable** for script development.
- **Data owners can either create** these **downloadable samples manually** or allow RAISE to **automatically generate a synthetic** dataset from the real dataset.
- **Data owners can require access approvals**, so that they have to approve requests by other researcher for processing their datasets.
- **Data owners retain full control** of **who processes the data** and **can revoke** access at any time.
- **Data owners can require result auditing**, so that they can see and **approve (or reject) results** generated by analysis of their datasets before these results become available to the data consumer.
- **Processing results are registered** on the **blockchain** and assigned a **DOI compatible RAI** Persistent Identifier (example <http://doi.org/10.82136/275>).
- When the RAI Persistent Identifier is cited in a paper, the **data owner is also included in the citation's metadata**.
- Data owners have as **metrics** how many times, when and by whom their **datasets have been processed**.
- Researchers can **choose** whether **scripts** and **results** produced by them **are downloadable** by others.
- The **real dataset** is **never downloaded or visible** by other researchers

Higher agreement that RAISE addresses:



Q4 Lack of recognition



Q3 Misinterpretation / falsification



Q1 Data Protection



Q6 Commercial exploitation

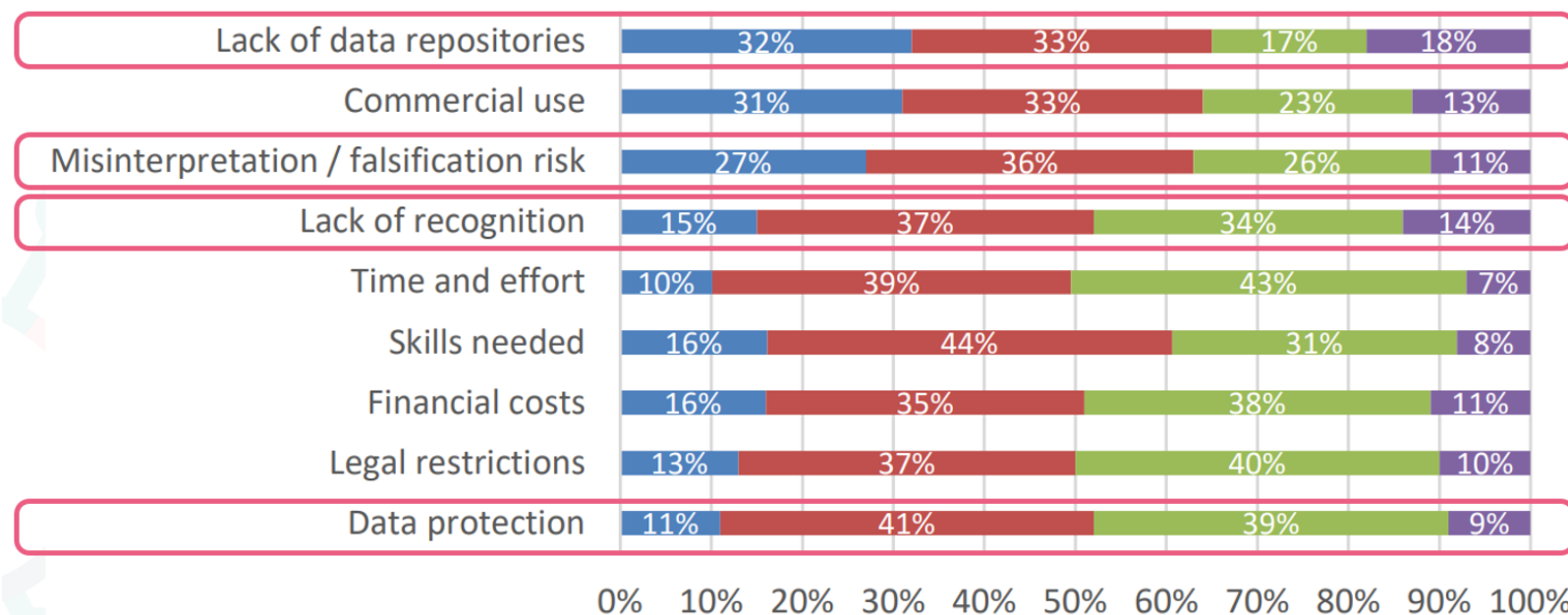


Q7 Lack of repositories



Q11 Trust in other researchers

Obstacles to the management and sharing of research data



Significant Attitude Changes with vs without RAISE



Be acknowledged for the reuse of your open data by others



Open science environment increases your visibility

Significant Changes ($p < 0.05$)



Current open science environment benefits your career



Opening your data might result in misuse



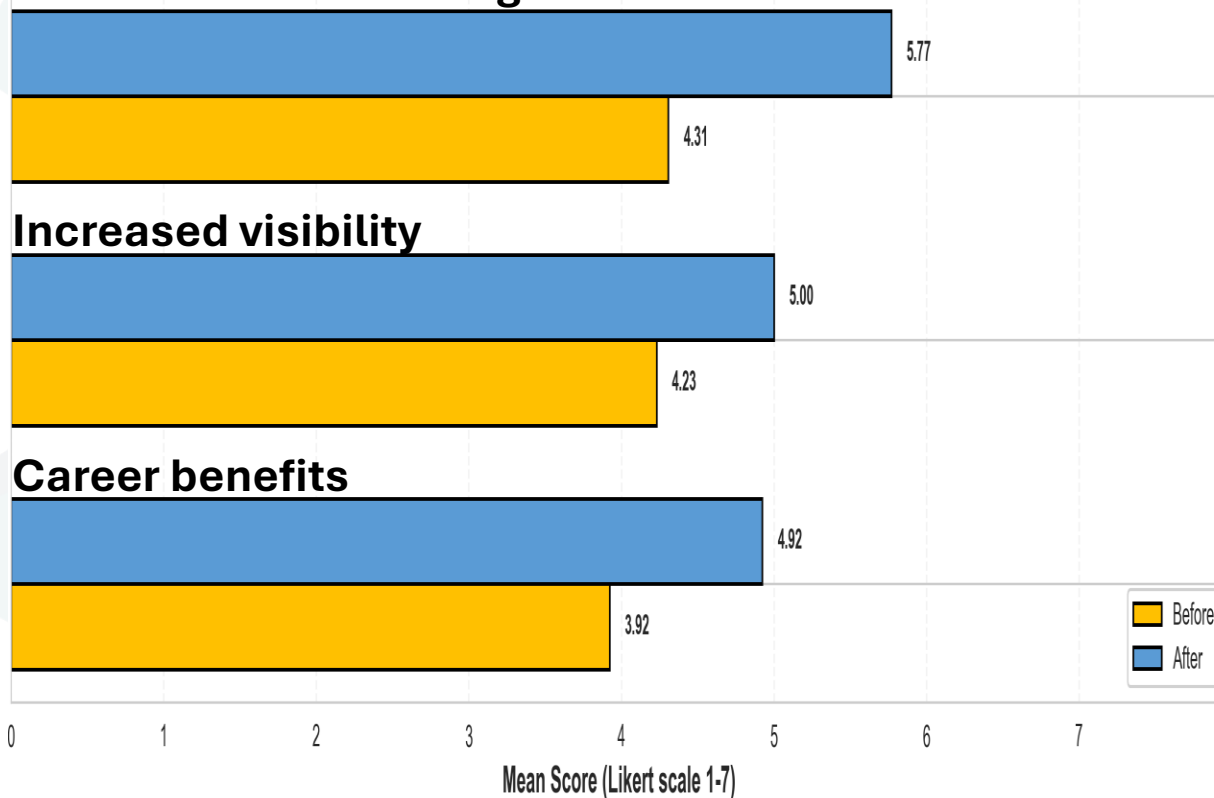
Able to control data usage if you make them open



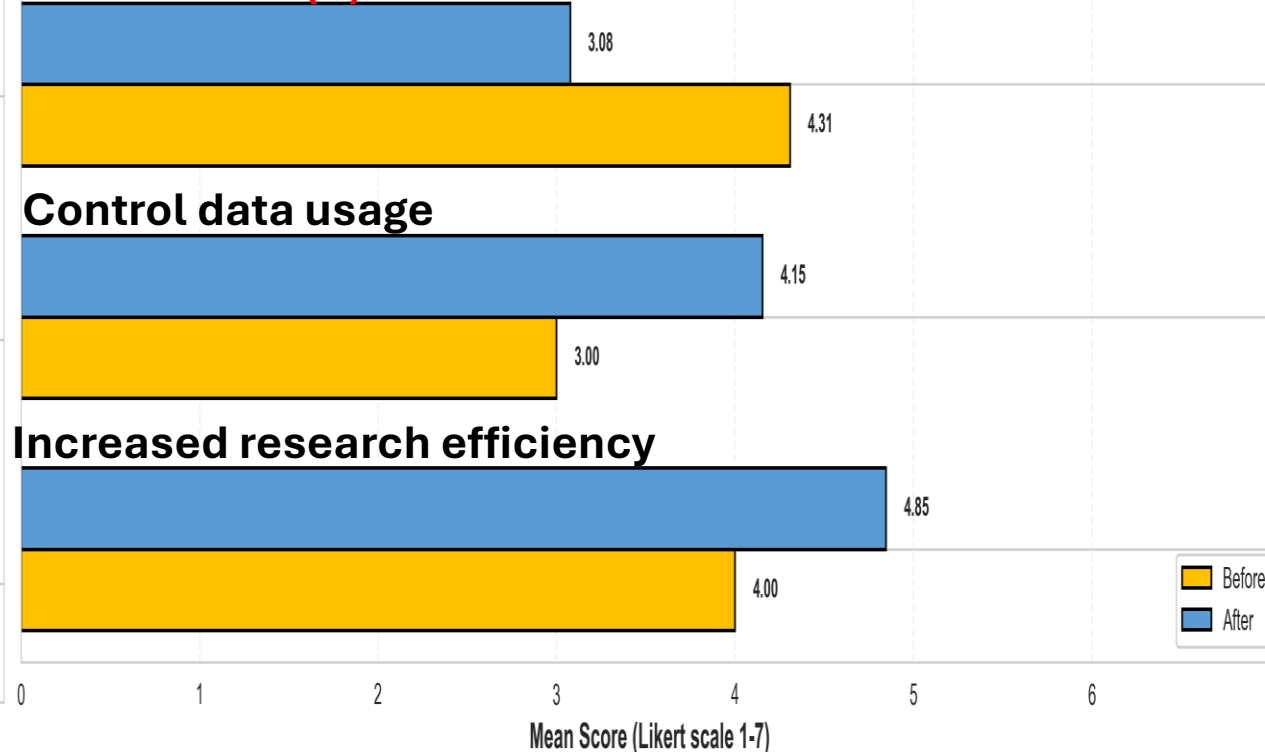
Efficiency in your research by using available open data

Near-Significant Trends ($0.05 \leq p < 0.10$)

Data reuse acknowledgement



Data misuse (R)



re negatively-worded; lower scores indicate more positive outcomes.

Usage



Nodes created

26



Users

197



Datasets

388



Experiments

769



RAI (PIDs)

279

Early adopters (beyond EOSC ecosystem)



HELLENIC REPUBLIC
REGION OF
CENTRAL MACEDONIA

healthentia



Class IIa certified
Software-as-medical-
device to collect, visualize
and compute patients'
physiological parameters

WITHINGS



Wifi Body
Scale



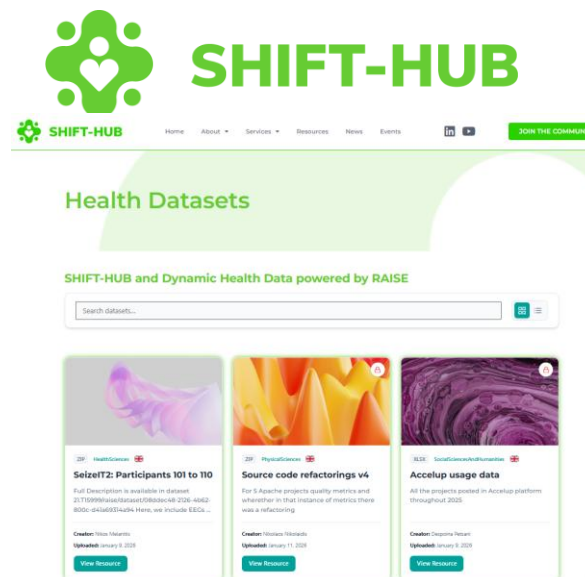
Blood
Pressure



Scan
Watch



Body
Scan



Football Club





Oct 2022 – Jan 2026



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the European Union

Sept 2025 – Dec 2028

XEETI spin-off



XEETI

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Projects & results

Since the 1980s, the EU has funded thousands of research projects through its framework programmes.

Access detailed information about all these projects, **download** entire framework programmes' data as open data, **read** articles highlighting key projects, and **explore** interactive maps showing project connections and advanced dashboards for deeper analysis.

Looking for regional insights, beyond the FW programmes? Have a look at the [Kohesio](#) database for projects co-funded by the EU cohesion policy.

Horizon Collaboration Network

An interactive map that unveils the connections within EU research funded by the Horizon framework programmes



DATA VISUALISATION

Explore and discover the collaborative network of organisations participating in Horizon projects

Project of the month

Every month we select a project that has particular potential for innovation in its field of science



NEWS

PROJECT OF THE MONTH

Technology for a more transparent approach to sharing, visiting and processing data

2 January 2026



Life after...

What happened next? Find out how a project team has taken their research or product further after the end of the project



NEWS

LIFE AFTER...

Catching up with CHARTER: Improving adaptation to the changing Arctic

8 December 2025



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We are live at **portal.raise-science.eu**



<https://documentation.raise-science.eu>





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Aristotle University of Thessaloniki (AUTH)

<https://www.auth.gr/en/>
<https://imedphys.med.auth.gr/>

 info@raise-science.eu

Project coordinator:
Dr. Evdokimos Konstantinidis

Scientific coordinator
Prof. Panos Bamidis

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