



# COESO

connecting research and society

COLLABORATIVE ENGAGEMENT ON SOCIETAL ISSUES

## WP4 - Funding Citizen Science Funding tool integration

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## Deliverable 4.2

### Funding tool integration

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## I. Executive summary

The aim of this document is to complement the release of the actual COESO project Deliverable 4.2 - Funding tool integration, due in M25 (31st January 2023). This deliverable describes the context and methodology of the Funding tool integration into VERA to allow its users to search for existing funding schemes and calls for Citizen Science projects in SSH.

Technically speaking, VERA is integrating the Fundit Database<sup>1</sup> that was developed under the RESPIRE (*Réseau de plateformes pour l'internationalisation de la recherche*) project and hosted and maintained by the RFIEA partner. Fundit is part of the *Plan national pour les SHS*, published in July 2016 by the French Ministry of Higher Education (MESRI), Research and Innovation (MESRI, *Les S.H.S., un investissement pour l'avenir*). Fundit has been conceived and developed by the *Réseau français des instituts d'études avancées* (RFIEA) foundation, within the Alliance Athena framework and in partnership with the *Fondation Maison des sciences de l'Homme* (FMSH) and supported by the French National Centre for Scientific Research (CNRS). Fundit is funded by the MESRI's *Direction générale de la recherche et de l'innovation*, within the framework of the *Plan national pour les SHS*, 2016, and by the Labex RFIEA+ (*Investissements d'Avenir* programme, run by the French National Research Agency (ANR).

In the framework of the COESO project and more specifically under the WP4 - Funding Citizen Science, the Fundit database is being enriched with funding opportunities that will provide the VERA community a useful tool to identify potential funding opportunities for their citizen science projects.

The integration between VERA and Fundit has been planned in 3 iterative levels:

- A first level of integration, operational by the delivery of this accompanying document that includes a Fundit widget on the VERA homepage, highlighting the most recent funding opportunities with a link on Fundit
- In a second stage, a research page will be developed into VERA, to allow the users to search autonomously for funding opportunities into the Fundit DB without having to leave the VERA platform
- A third level of integration foreseen is the possibility of getting recommendations about funding opportunities for a specific project on VERA, based on the respective disciplines

The integration of VERA and Fundit will be made through Application Programming Interface (API).

## I. Structure of the document

This document is structured in IV sections:

- Section I: Executive summary
- Section II: Description of the APIs
- Section III: Description of the VERA and Fundit integration
- Section IV: Conclusions

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<sup>1</sup> <https://fundit.fr/en>

## II. Fundit APIs description

The integration between VERA and Fundit is done through its APIs, software interface that allows computer programmes to communicate with each other.

As already stated, Fundit is based on the RESPIRE database, that is based on a central architecture that regularly checks and calls back calls and institutions from its sources every 10 minutes in order to recover any content that is not updated or is not available on the database.

Finding opportunities are also inserted manually on Fundit, based on inputs from the COESO consortium.

Several endpoints are available on the RESPIRE database, for calls, for institutions and for taxonomies. It has to be noted that the language parameter in the url is important: with /fr/ the API will return French translations, with /en/ the API will return English translations.

The "default\_langcode" field lets you know if it is the main language of the content or if it is a translation.

The existing endpoints are listed below:

- To retrieve calls: /en/jsonapi/node/project\_calls
- To retrieve institutions: /en/jsonapi/node/actors
- To retrieve a particular content, just add the content ID in the url, example:
  - [https://respire.rfiea.fr/en/jsonapi/node/project\\_calls/4bfa9866-591a-4432-962e-8ed6ab7046db](https://respire.rfiea.fr/en/jsonapi/node/project_calls/4bfa9866-591a-4432-962e-8ed6ab7046db) (EN version)
  - [https://respire.rfiea.fr/fr/jsonapi/node/project\\_calls/4bfa9866-591a-4432-962e-8ed6ab7046db](https://respire.rfiea.fr/fr/jsonapi/node/project_calls/4bfa9866-591a-4432-962e-8ed6ab7046db) (FR version)
- To retrieve taxonomy terms:
  - [https://respire.rfiea.fr/en/jsonapi/taxonomy\\_term/country](https://respire.rfiea.fr/en/jsonapi/taxonomy_term/country) (List of countries used)
  - [https://respire.rfiea.fr/en/jsonapi/taxonomy\\_term/respire\\_thematic](https://respire.rfiea.fr/en/jsonapi/taxonomy_term/respire_thematic) (List of blocks disciplinary)

It is possible to query the central database (respire.rfiea.fr) to retrieve all content, or filter by a particular satellite (eg: fundit.fr).

The central base synchronises only a few fields, common to all the satellites.

Here is the list of fields currently synchronised with the central database for **calls**:

- title
- field subtitles
- body (lors du premier import uniquement)
- field\_country
- field\_respire\_thematic
- field\_application\_date
- field duration
- field link

- field\_budget\_euros (lors du premier import uniquement) field\_shs\_rate (lors du premier import uniquement)
- field\_actors\_ref
- field\_type\_of\_change
- field address search
- field\_central\_hub\_call\_id
- field\_origin

Here is the list of fields currently synchronized with the central database, for **institutions**:

- title
- field subtitles
- body (on first import only)
- field\_country
- field\_respire\_thematic
- field\_address\_search
- field\_central\_hub\_institution\_id
- field\_origin
- field link

Currently, the central database also contains 2 **taxonomies**:

- Country
- Disciplinary Block

The Disciplinary Block taxonomy allows content to be tagged in a discipline, to facilitate the filtering of content by the team in charge of a satellite.

The APIs are based on the JSON:API standard<sup>2</sup> adapted to Drupal, whose possible interactions are listed in the official documentation<sup>3</sup>, that describes how to filter search results, include certain fields (via the "include" parameter), how to use pagination etc.

The central database and its API is protected by htaccess<sup>4</sup>. The central database API is open for read/write/update. In the event of write/update calls with the central database, discussions must take place to define how these calls should be made.

### Examples of API calls

- Returns the list of institutions created in English, having been modified after October 13, 2023 (timestamp 1665652294):
  - [https://respire.rfiea.fr/en/jsonapi/node/actors?filter\[langcode\]=en&filter\[default\\_langcode\]=1&filter\[changed\]\[condition\]\[path\]=changed&filter\[changed\]\[condition\]\[operator\]=%3E&filter\[changed\]\[condition\]\[value\]=1665652294](https://respire.rfiea.fr/en/jsonapi/node/actors?filter[langcode]=en&filter[default_langcode]=1&filter[changed][condition][path]=changed&filter[changed][condition][operator]=%3E&filter[changed][condition][value]=1665652294)
- Returns the list of FR translations of calls created in English, having been modified after October 13, 2023 (timestamp 1665652294):
  - [https://respire.rfiea.fr/fr/jsonapi/node/project\\_calls?filter\(langcode\)=fr&filter\[default](https://respire.rfiea.fr/fr/jsonapi/node/project_calls?filter(langcode)=fr&filter[default)

<sup>2</sup> <https://jsonapi.org>

<sup>3</sup> <https://www.drupal.org/docs/core-modules-and-themes/core-modules/jsonapi-module>

<sup>4</sup> <https://en.wikipedia.org/wiki/.htaccess>

`_langcode]=0&filter[changed][condition][path]=changed&filter[changed][condition][operator]=%3E&filter[changed][condition][value]=1665652294`

- Returns the list of calls created on fundit.fr:
  - `https://respire.rfiea.fr/fr/jsonapi/node/project_calls?filter[origin][condition][path]=field_origin&filter[origin][condition][value]=fundit.fr`

Note that the API returns 50 contents by default, pagination is available to consult other contents via the "links" table, and it is possible to limit the number of results via the `page[limit]` parameters.

### III. VERA and Fundit Integration

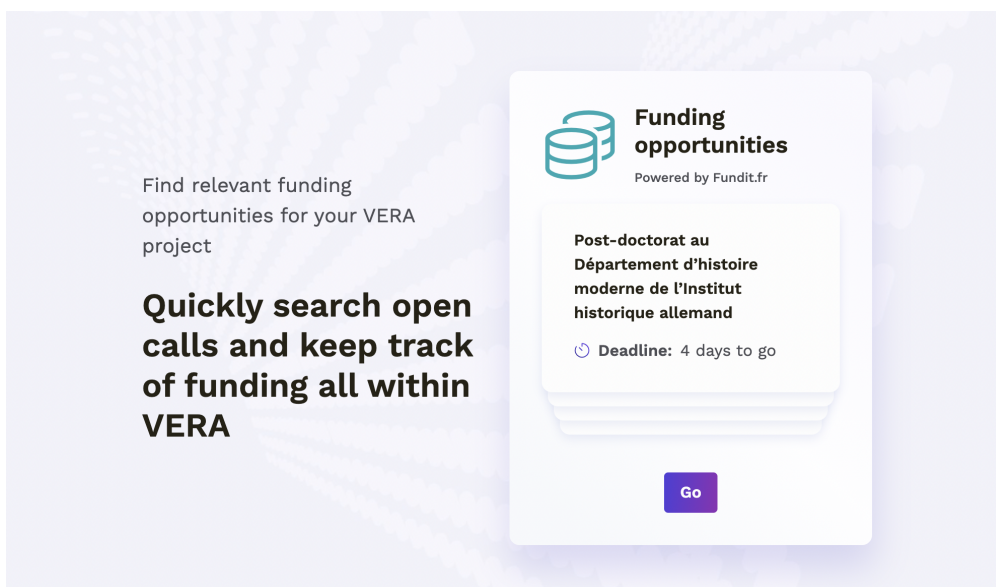
As explained in the previous chapter, the integration between VERA and Fundit is based on APIs that are sent to VERA from Fundit regarding published calls, according to the following fields:

- title (title of the call)
- subtitles (subtitles of the call)
- body (description text of the call – for the first import only)
- country (country where mobility will take place or where project will be implemented)
- respire\_thematic (scientific fields: Engineering & Earth Sciences, Health, Natural & Life Sciences, Social and Human Sciences, Citizen sciences, empty field)
- application\_date (deadline for applying)
- duration (duration of the grant/fellowship)
- budget (amount of the grant/fellowship)
- link (website link to the call url + text)
- shs\_rate (SSH intensity of the call ranked 1 to 5 - for the first import only)
- actors\_ref (name of the funding institution)
- type\_of\_change (nature of changes made on the existing call)
- address\_search (address of the funding institution)
- central\_hub\_call\_id (identification of the call by a digital code given by the platform)
- origin (platform that created the contents)

The integration of VERA and Fundit has been planned to evolve over time in order to become tighter and to offer a better service to the VERA users. More in detail, three levels of integration have been planned, that will provide and enhanced experience for users, in line with the growth and enrichment of the Fundit database.

#### First level of integration (by January 2023)

In this first level of integration, the VERA platform is hosting a Fundit widget in its homepage, where the latest funding opportunities are highlighted, as shown in the picture below:

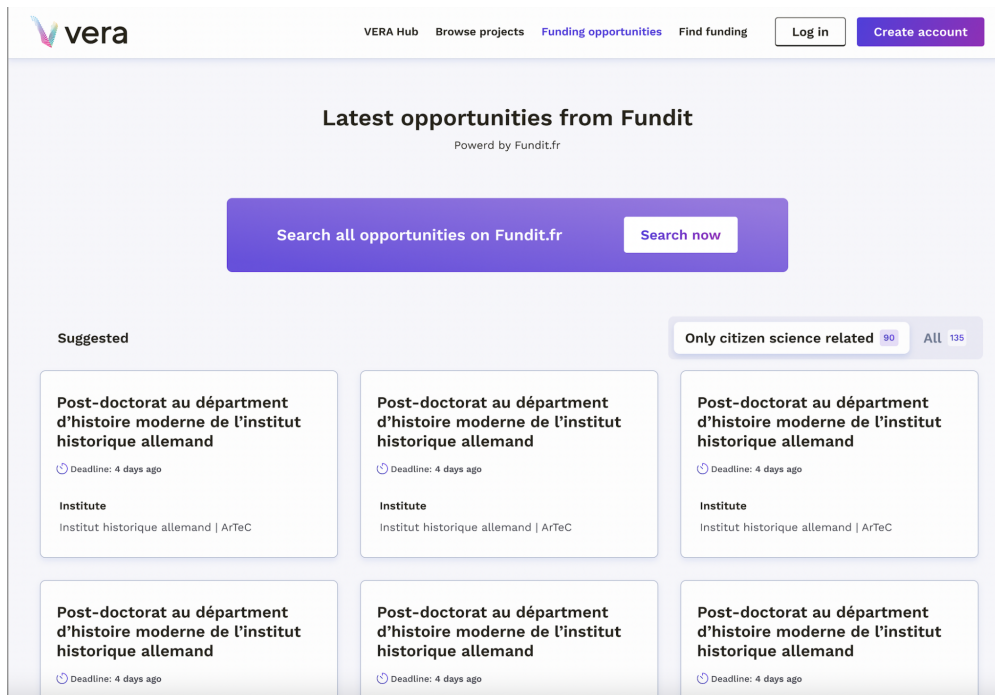




The button “Go” will lead to the call details on the Fundit website.

### Second level of integration

As second level of integration, a search functionality page will be integrated into VERA and will allow users to freely search for available calls on Fundit, directly from the VERA interface, but accessing a specific tag that will be added on the top horizontal menu, as shown in the picture below. Details about funding opportunity can be then found clicking on the specific link that will redirect to Fundit.



### Third level of integration

The third level of integration has been designed to allow each project to receive specific suggestions on potential calls, matching the disciplines of the project and of the specific calls.

At the moment, the disciplines are only filtered on Fundit website, while on the RESPIRE database these data are not synchronised and this type of integration is therefore technically not possible.

Therefore, it is necessary to further investigate this third level integration and develop a dedicated implementation plan.

The User Interface of this service has been already designed in line with the VERA UI kit, as shown in the picture in the following page (p.9):



## A Criminological Study on Businesses in Rome



Project status ● Approved

Get project link [↗](#)

Home

Team

Diary

Messaging

Tools

**Funding**

Settings

### Suggested results from Fundit.fr

We couldn't find any funding opportunities that match your project details. Here are the latest!

6 results

#### Radcliffe fellow ship program, engineering, and mathematics

View open call

Deadline: 4 days ago

##### Institute

European Commission | Erupean Research Council

#### Lorem ipsum dolor sit amet

View open call

Deadline: 4 days ago

##### Institute

European Commission | Erupean Research Council

#### Lorem ipsum dolor sit amet consectetur. Nunc aliquam dui nulla lorem et vitae pellentesque non proin ornare.

View open call

Deadline: 4 days ago

##### Institute

European Commission | Erupean Research Council

#### Radcliffe fellow ship program, engineering, and mathematics

View open call

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[More opportunities on Fundit.fr](#)



VERA is the result of the COESO project, which aims to develop and sustain citizen science research in the social sciences and humanities.

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VERA is one of the dedicated services of OPERAS, the Research Infrastructure supporting open scholarly communication in the social sciences and humanities (SSH) in the European Research Area.



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## IV. Conclusions

This deliverable describes the context and methodology of the Funding tool integration into VERA to allow its users to search for existing funding schemes and calls for Citizen Science projects in SSH as main output of Task 4.2 Integration of the funding tool into VERA as part of the activities performed by the COESO consortium under the WP4 Funding Citizen Science.

The main goals of this work package are to facilitate and make the search for Citizen Science funding more efficient, as well as to trigger new funding opportunities for Citizen Science projects.

In this sense, the integration between VERA and Fundit is strategic because from one side, it increases the VERA functionalities and its offer to the end users, and on the other side, in line with the results achieved by WP4 Funding Citizen Science, supports and promotes funding for citizen science projects.

The connection between VERA and Fundit definitely enhances the COESO overall added value and impact on the citizen science SSH community.