

FAIR DATA: INTEROPERABILITY



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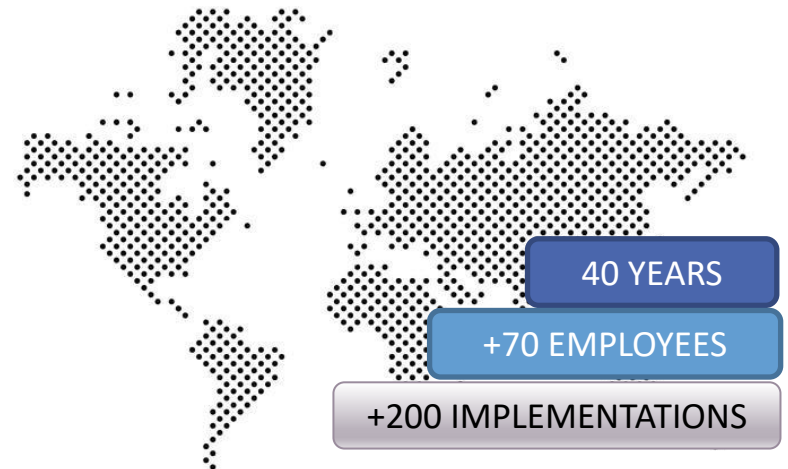
SEMICROL. WHO WE ARE?

SEMICROL



SEMICROL is a company based in Santander (Spain), since 1979, where more than 70 employees are focused on consulting, development, implementation and maintenance of computer systems and applications.

Currently, SEMICROL has international presence with delegations in Mexico and Colombia.



SEMICROL. REFERENCES


semicrol.es
SPAIN

+120




semicrol.mx
MEXICO

16




semicrol.co
COLOMBIA

10



Other Countries: PERU, ARGENTINA and USA

REFERENCES

PERU



COLOMBIA



MEXICO



Universidad Nacional
Autónoma de México



SPAIN



UNIVERSIDAD COMPLUTENSE
MADRID



Universidad
de Navarra



02

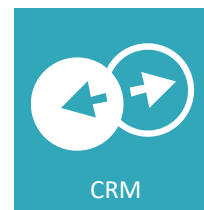
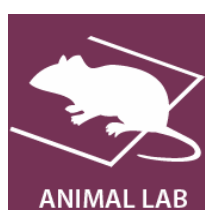
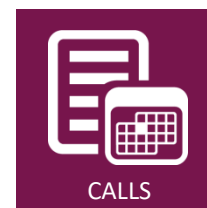
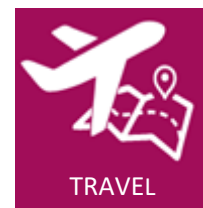
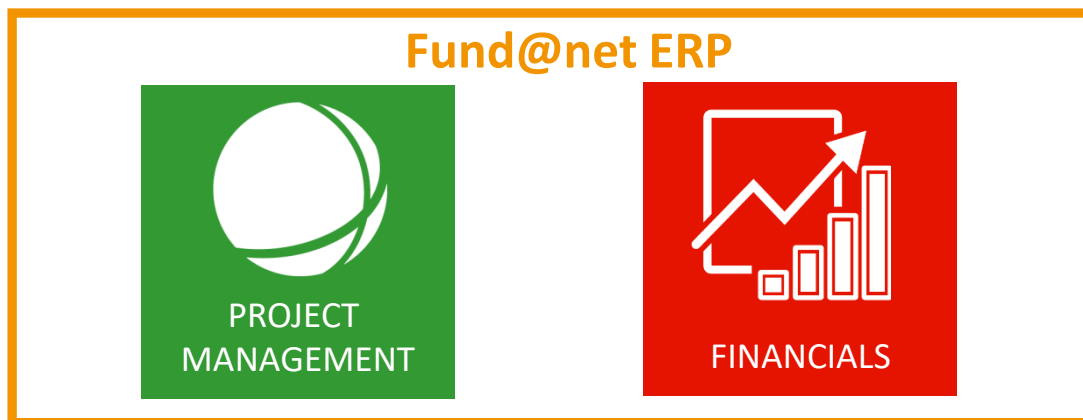
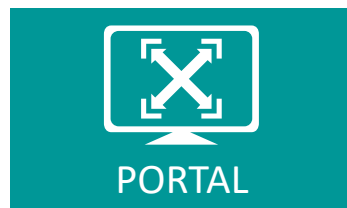
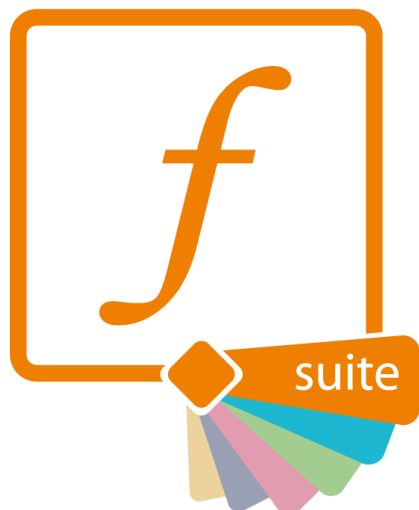
FUNDANET SUITE. A TECHNOLOGY PLATFORM FOR INNOVATION AND RESEARCH MANAGEMENT

FUNDANET SUITE

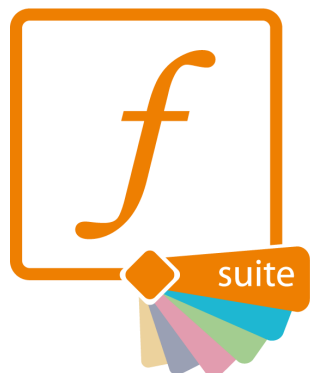
- ❑ **SEMICROL** has developed **FUNDANET SUITE**, an innovative process-oriented technology platform.
- ❑ Adaptable to the needs and particular characteristics of each client.
- ❑ The module suite of Fundanet platform is based on the pre-configuration of components.
- ❑ Reuse and optimization of implementation time
- ❑ Product development in collaboration with the user community.
- ❑ On-premise / Cloud



FUNDANET SUITE



FUNDANET SUITE – VALUE PROPOSAL

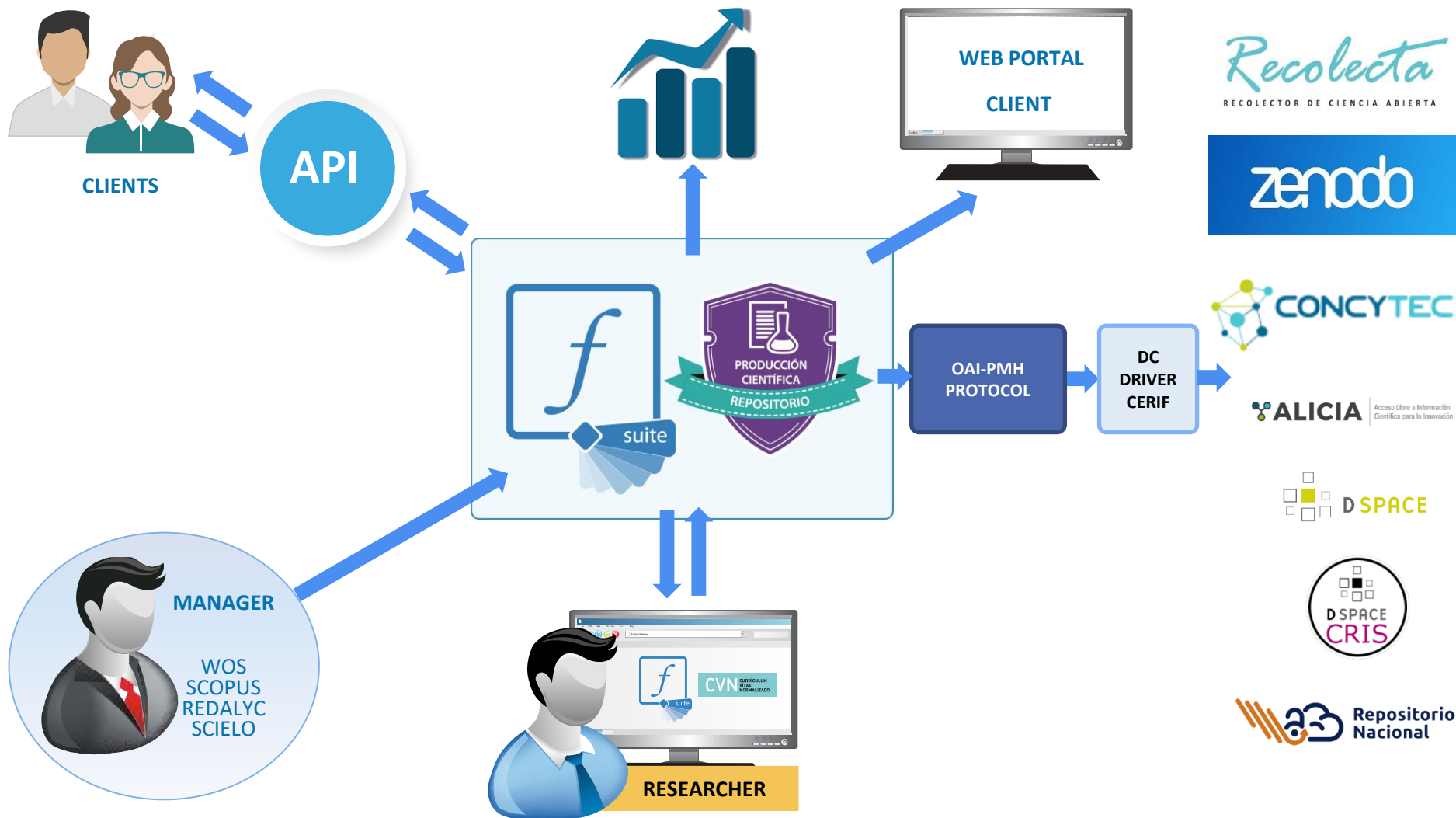


- ☐ **M**odular environment. Personalized growth according to the organization needs.
- ☐ **I**ntegration with all bibliometric sources (WoS, Scopus, PubMed, Scielo, Google Scholar, etc.)
- ☐ **I**nternational User Community. 2 product versions per Year included to all customers.

- ☐ **C**ustom Setting by Country

- ☐ **C**onsulting and **T**raining
- ☐ **U**ser **G**uides
- ☐ **C**ustomer **S**ervice **C**entre during local hours.
- ☐ **I**mplementation in reduced time (3-4 months)

FUNDANET SUITE – INTEROPERABILITY





CVN CURRÍCULUM
VITAE
NORMALIZADO

03

CVN – CURRICULAR MODEL IN SPAIN.
AUTOMATED EXCHANGE WITH THE SPANISH SCIENCE AND
TECHNOLOGY SYSTEM

CVN – SPANISH CURRICULAR MODEL

BACKGROUND



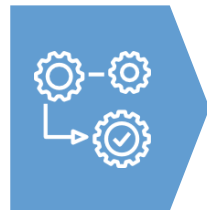
MULTIPLE FORMATS

Multiple, heterogeneous formats are used, both regional and state (FIS, ANECA, EUROPASS, WORD,...)



REPETITIVE WORK

Researchers have to write their CVs over and over again in order to present them on different platforms.



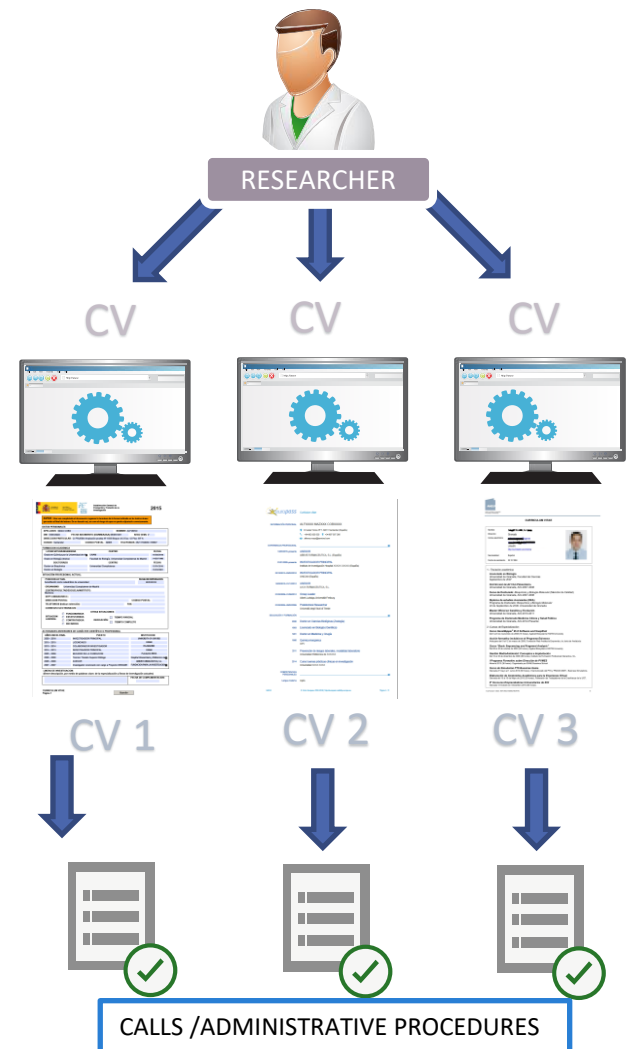
ADMINISTRATIVE WORKLOAD

The heterogeneity of the curricular information makes it difficult to assess and evaluate the curricular merits in public calls for funding research projects.



IMPOSSIBLE TO EXTRACT INDICATORS

The lack of standardized information on the activity of researchers makes it difficult for Public Managers to extract indicators for scientific policy decisions.



CVN - SPANISH CURRICULAR MODEL

CVN-FECYT MODEL



LET'S DO IT

FECYT, the Spanish Foundation for Science and Technology and the Ministry of Science and Innovation launched the CVN Project in 2006. (Currículum Vitae Normalizado).



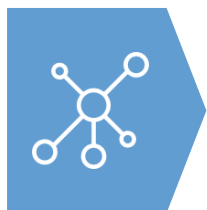
NORMALISATION

And CVN emerges. A Standard norm that defines the same presentation format for curricular data through a set of technical specifications that regulate the items that must be included and the fields of each item (none of them are mandatory).



CVN TECHNOLOGY

A CVN is an electronic file in PDF format with embedded XML technology. In such a way that the information contained can be processed electronically by different databases.

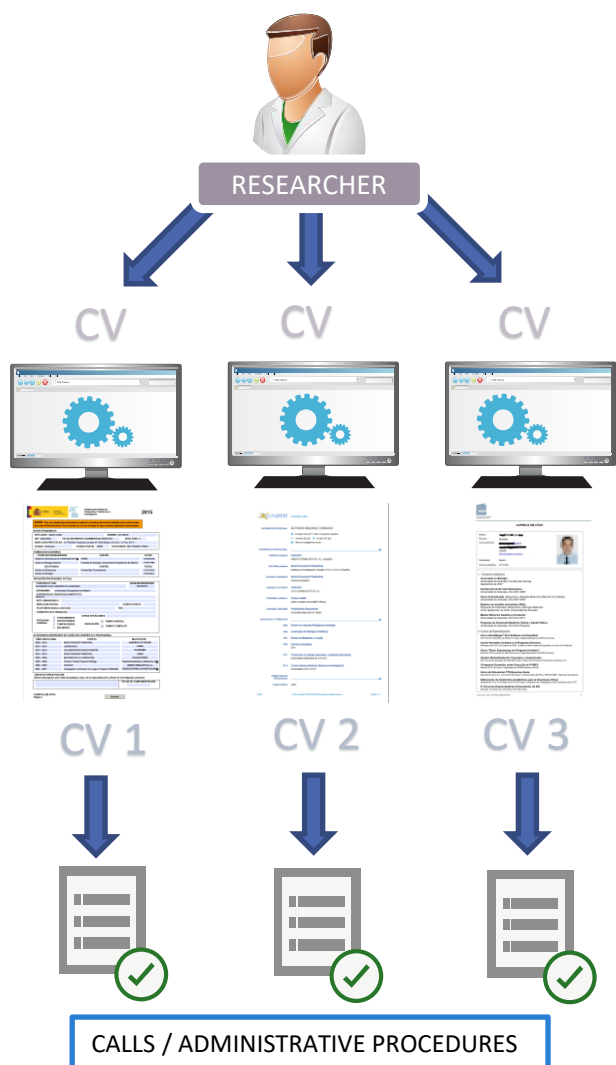


INTEROPERABILITY

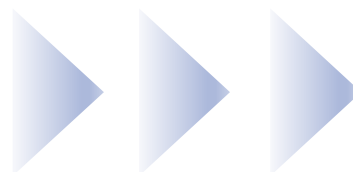
One of the great advantages. This format can be exported and imported into any system that implements the CVN standard.



CVN - CURRICULAR MODEL IN SPAIN

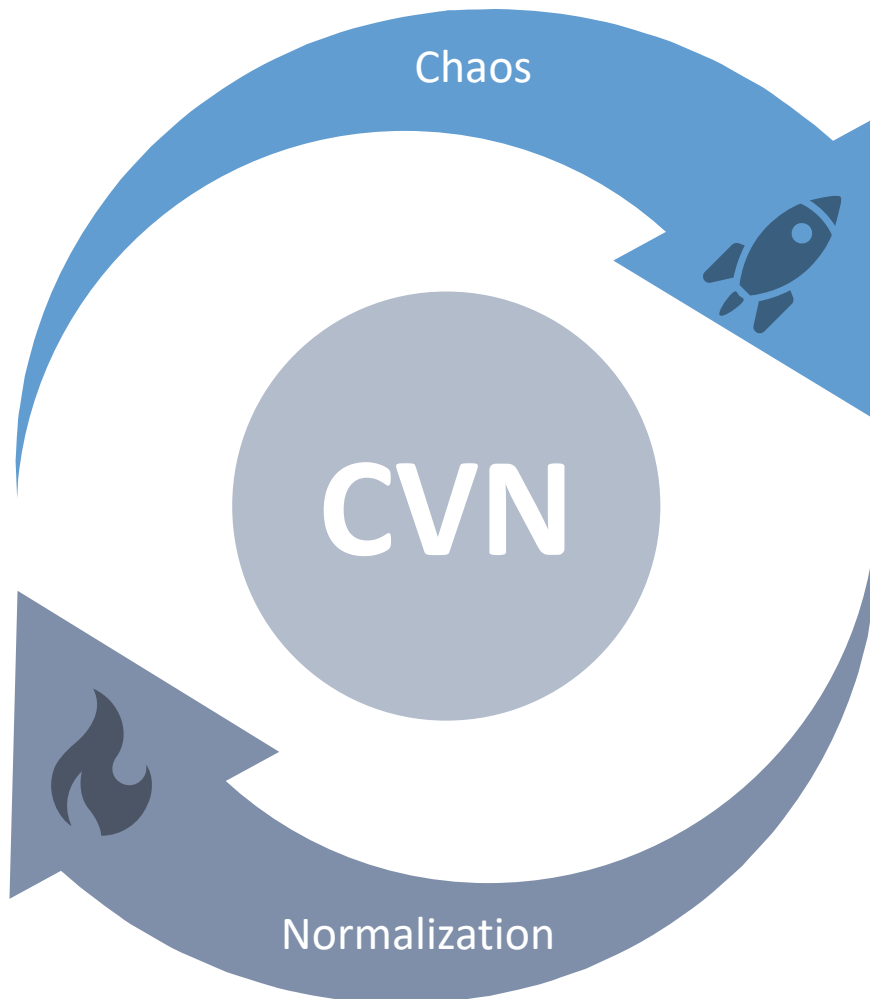


TRANSFORMATION



CVN - CURRICULAR MODEL IN SPAIN

FROM CHAOS TO NORMALISATION

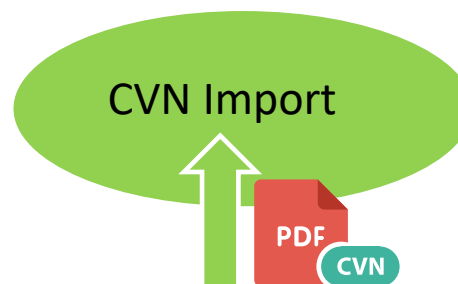
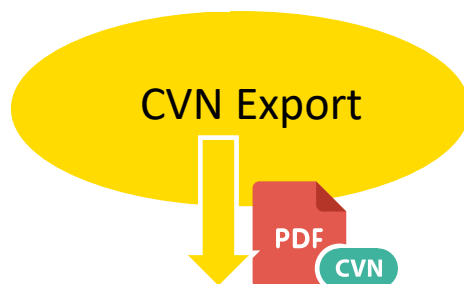


ADVANTAGES

- ☐ **Unique and multilingual format** (English, French and Spanish)
- ☐ **Digitally signed by FECYT**, guaranteeing that it has not been manipulated.
- ☐ **Reduction of the workload** required by a researcher to keep his/her CV up to date. It is written only once and updated in the systems where it is needed.
- ☐ **Improves the evaluation of CVs** submitted to the calls that finance the research projects of the researcher.
- ☐ **CVN simplifies the electronic processing**
- ☐ **CVN facilitates the obtaining of indicators** for the scientific policy decision-making by Public Managers.

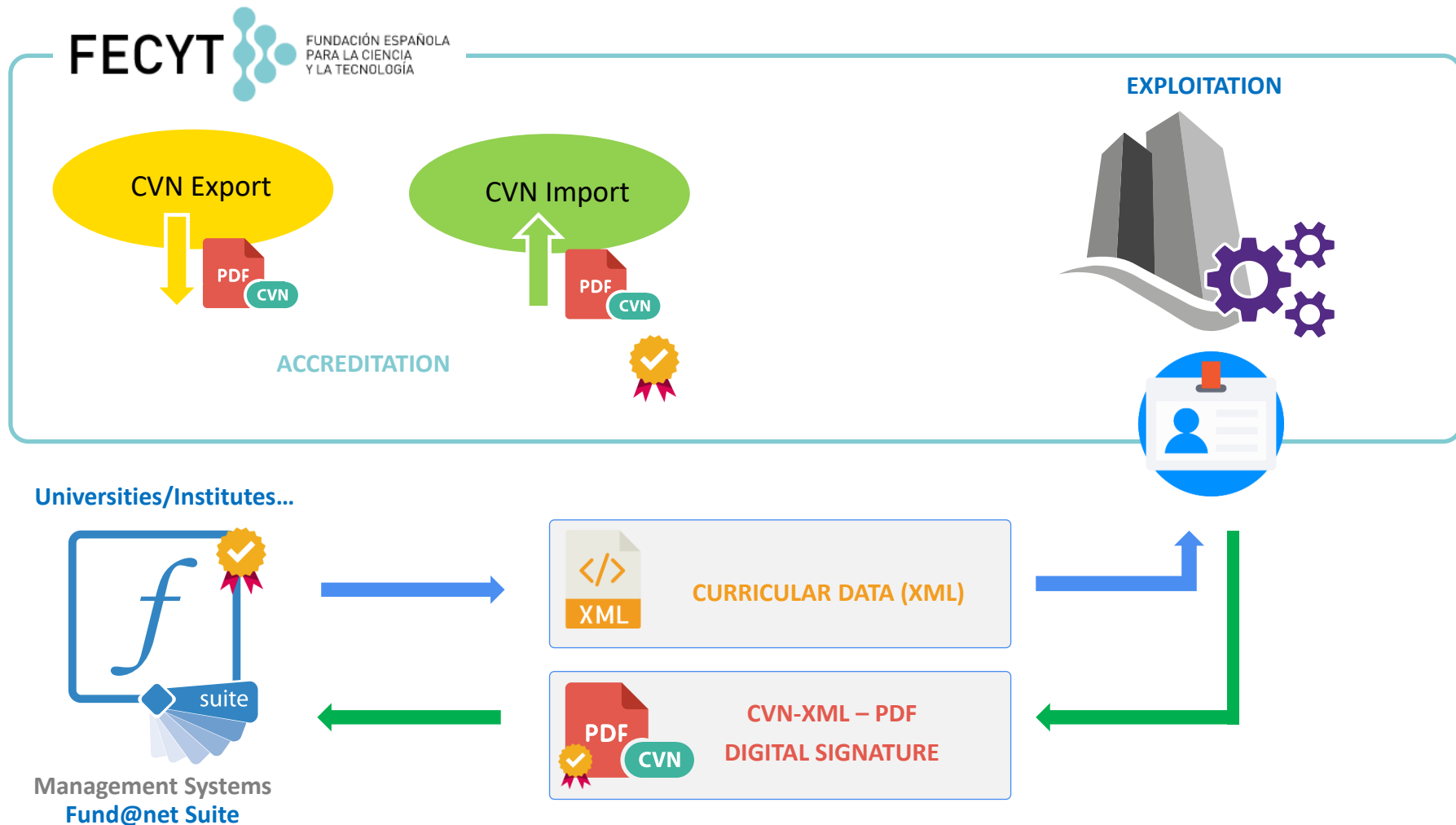
CVN - CURRICULAR MODEL IN SPAIN

UNIVERSITY ACCREDITATION PROCESS



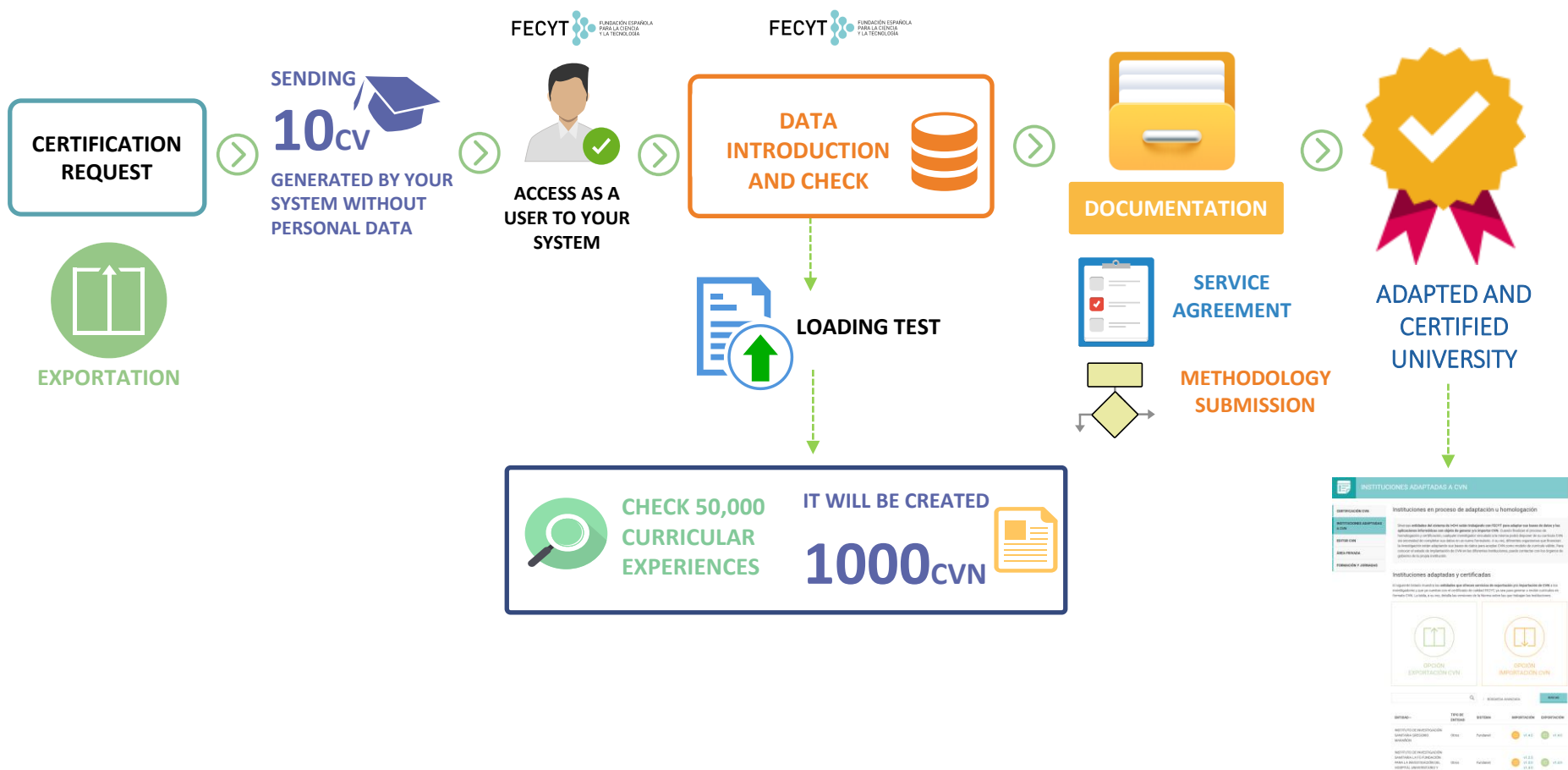
- The institutions are accredited by FECYT, which certifies that their curriculum management system meets the requirements of the CVN standard.
- Administrative and technical procedure, with several stages.
- The accreditation includes:
 - ✓ CVN Export. Process that allows the institution to generate a CVN format curriculum directly from the institution's system.
 - ✓ CVN Import. Process that allows the institution to incorporate a CVN format curriculum directly into the institution's system.
- It ensures that the institution has a system in which all information of its researchers is stored and therefore, any analysis indicator can be generated.

CVN - CURRICULAR MODEL IN SPAIN



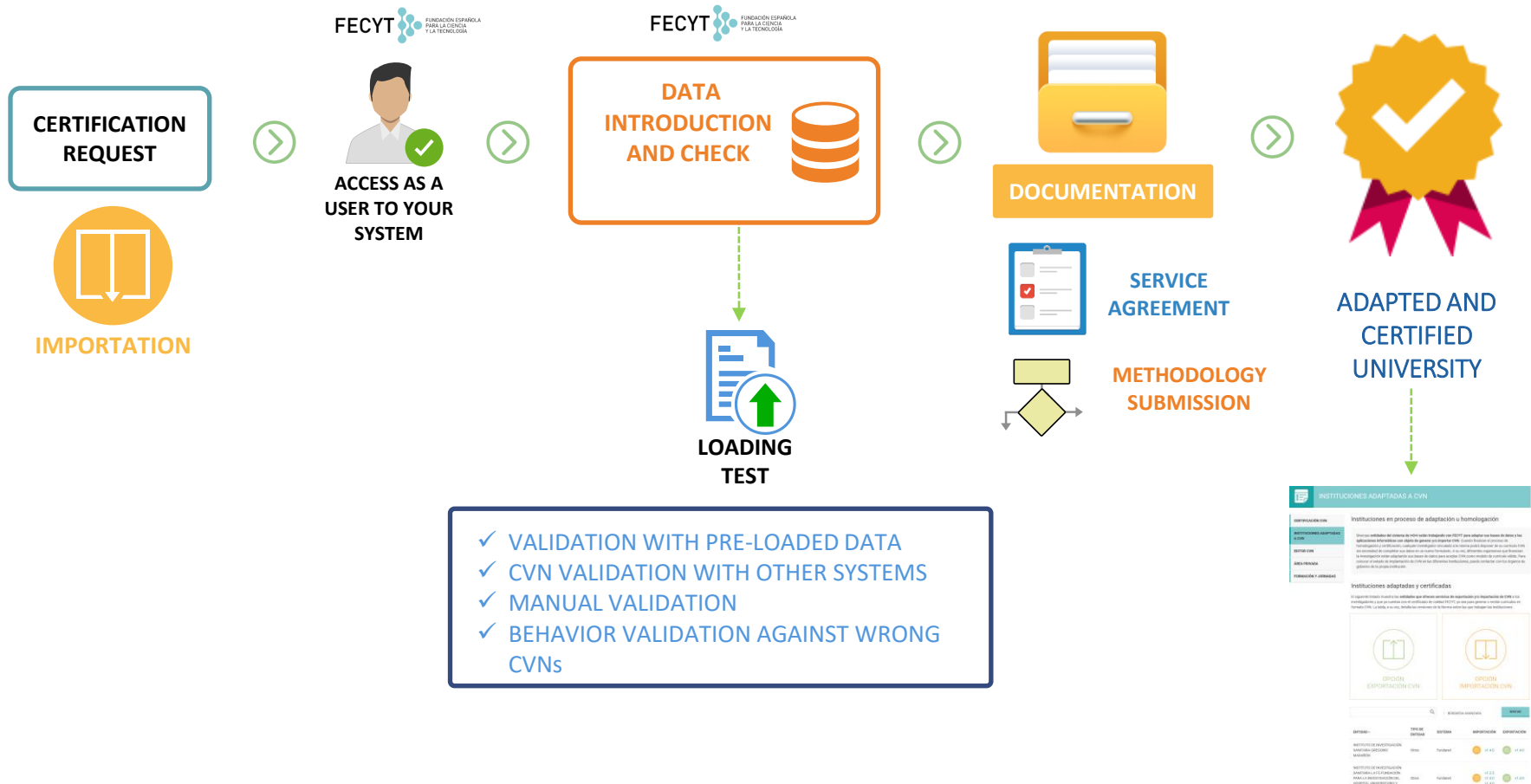
CVN - CURRICULAR MODEL IN SPAIN

EXPORTATION ACCREDITATION



CVN - CURRICULAR MODEL IN SPAIN

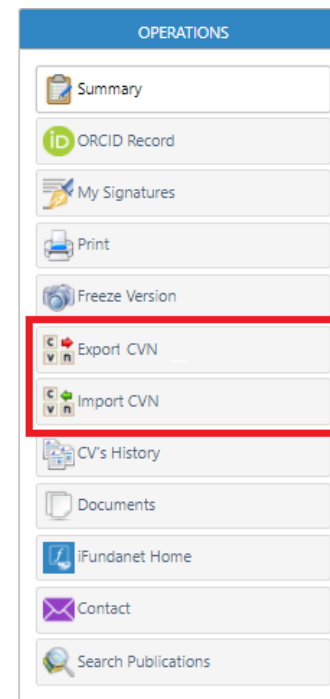
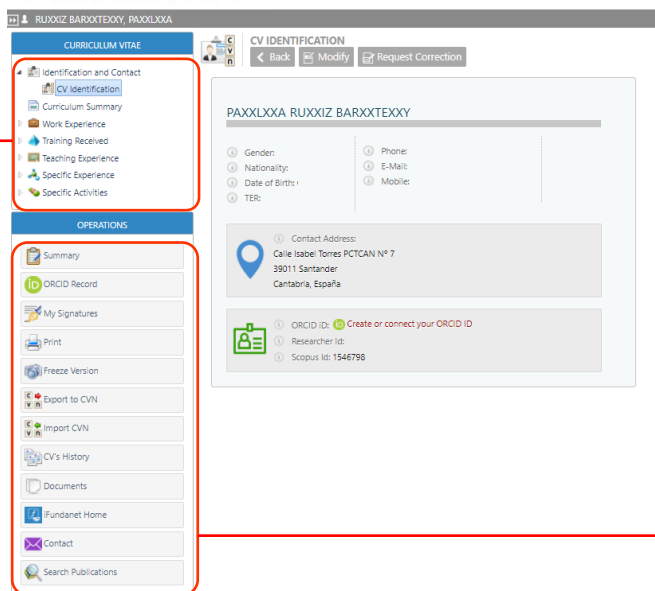
IMPORTATION ACCREDITATION



CVN - CURRICULAR MODEL IN SPAIN

CURRICULAR MANAGEMENT IN FUNDANET

fundanet





04

RECOLECTA - OPEN REPOSITORIES UNDER OPENAIRE GUIDELINES.
NATIONAL REPOSITORY IN SPAIN

OPEN REPOSITORIES UNDER OPENAIRE STANDARDS

OPEN ACCESS



Definition

Immediate access, without registration, subscription or payment requirements to digital educational, academic, scientific or any other type of digital material, mainly scientific research articles from specialized journals and refereed through the peer review system.

Key dates:

- ✓ Budapest Open Access Initiative (2002)
- ✓ Bethesda Statement on Open Access Publishing (2003)
- ✓ Berlin Statement on Open Access (2003)
- ✓ European Commission's Open Aire project (2009)

Main aspects:

- ✓ Make scientific literature available online
- ✓ Removing economic barriers
- ✓ Removing most of the barriers to reuse permits

OPEN REPOSITORIES UNDER OPENAIRE STANDARDS

OPENAIRE (Open Access Infrastructure for Research in Europe)

OpenAIRE is a project of the European Commission's Seventh Framework Programme (2009-2012) that supported and promoted the implementation of open access policy in Europe. In short, it provides the means to make the widespread adoption of open access policies a reality.

3 main objectives:

- ✓ To build support structures for researchers for the deposit of research publications through the collaboration of 27 National Offices for Open Access.
- ✓ To establish an electronic infrastructure (web portal) for access to scientific information.
- ✓ To promote the deposit of all scientific production generated in the framework of projects financed by the European Commission in Open Access.

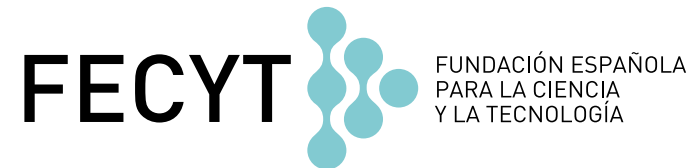


OPEN REPOSITORIES UNDER OPENAIRE STANDARDS

IMPLEMENTATION OF OPEN ACCESS STANDARDS IN SPAIN



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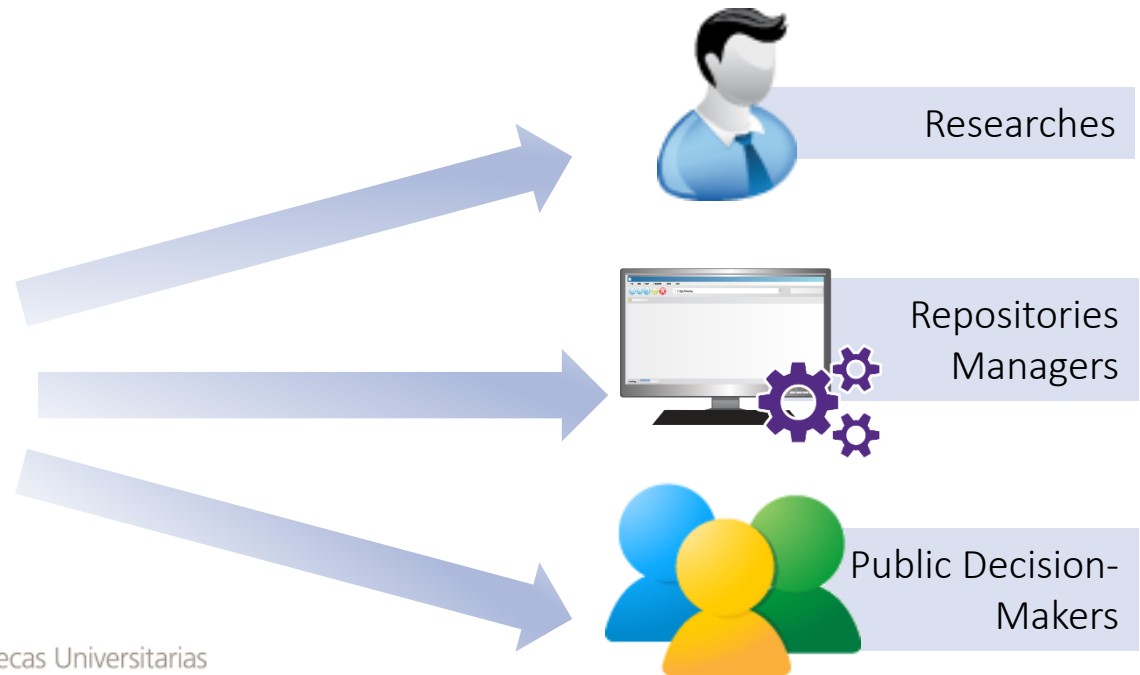
Recolecta

RECOLECTOR DE CIENCIA ABIERTA

OPEN REPOSITORIES UNDER OPENAIRE STANDARDS

SYSTEMS FOR COLLECTION IN SPAIN. RECOLECTA

- A platform that brings together all the national scientific repositories and provides services to repository managers, researchers and agents involved in the development of policies (policy makers).
- RECOLECTA is the result of collaboration between the Spanish Foundation for Science and Technology (FECYT) and the University Library Network (REBIUN)



OPEN REPOSITORIES UNDER OPENAIRE STANDARDS

RECOLECTA MAIN OBJECTIVES

- Promote and coordinate the national infrastructure of open access digital scientific repositories and ensure that they are interoperable according to the standards of the global community.
- Promote, support and facilitate the adoption of open access by all researchers in Spanish universities and R&D centers, the main producers of scientific knowledge in our country.
- Provide a greater national and international visibility of the results of the research carried out in Spain.



OPEN REPOSITORIES UNDER OPENAIRE STANDARDS

RECOLECTA ADVANTAGES

- RECOLECTA offers institutions the chance to be part of this national platform of scientific repositories and to give the institution's scientific production greater national and international visibility.
- Compliance with Open Access Mandate. Horizon 2020.
- Compliance in Spain with the National Science, Technology and Innovation Law of 2011 that requires the publication of open access for research that has been produced with public funds.



OPEN REPOSITORIES UNDER OPENAIRE STANDARDS

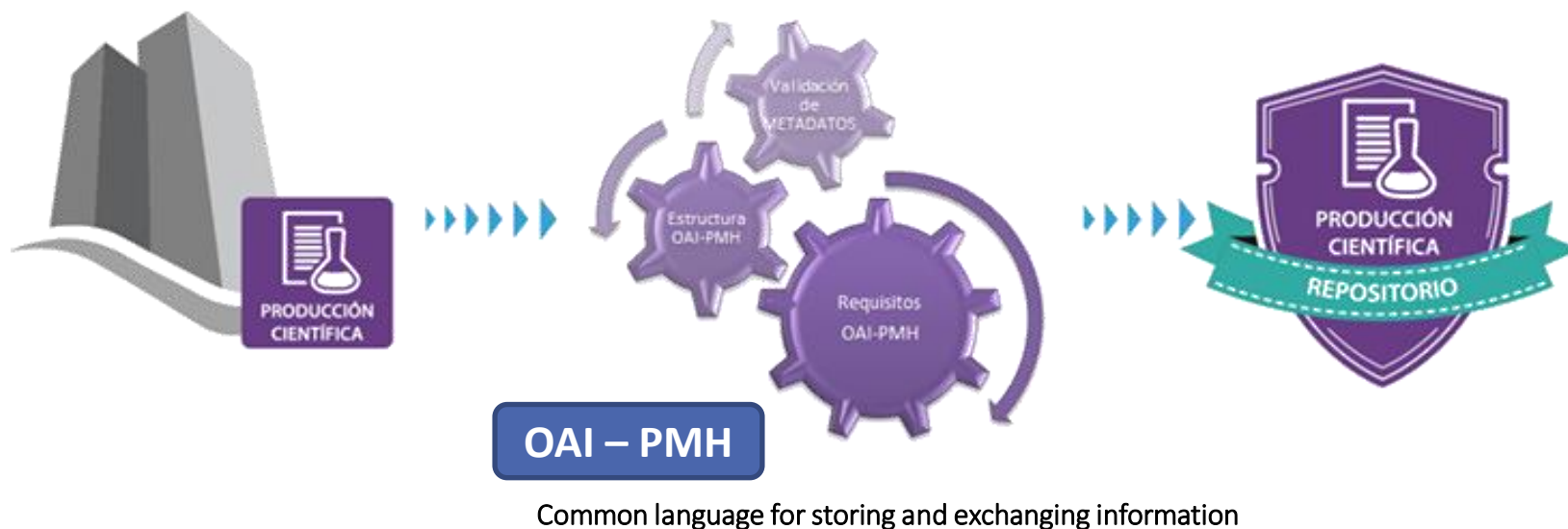
VALIDATION PROCESS OF INSTITUTIONAL REPOSITORIES IN RECOLECTA



OPEN REPOSITORIES UNDER OPENAIRE STANDARDS

WHAT DOES FUNDANET DO TO BE PART OF RECOLECTA?

- **STAGE 1:** Scientific production must be contained in a repository. Fundanet makes it possible to turn it into an institutional repository.

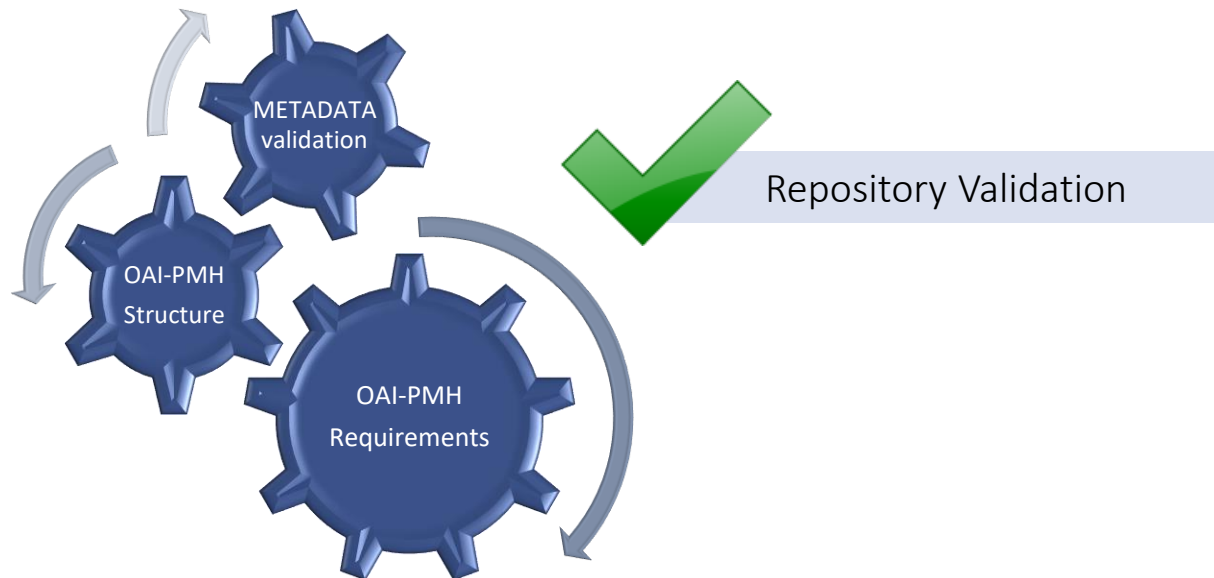


- ✓ The OAI - PMH protocol makes Fundanet a recolectable resource.
- ✓ Communication of the integration process to FECYT.
- ✓ Access to the RECOLECTA validation and collection tool once the Scientific Production is in the Fundanet repository.

OPEN REPOSITORIES UNDER OPENAIRE STANDARDS

WHAT DOES FUNDANET DO TO BE PART OF RECOLECTA?

- **STAGE 2:** Passing the technical validation tests



- ✓ Validation tests and reading of the results reports.
- ✓ Resolution of incidents generated in the different tests that make up the validation of the Repository.

OPEN REPOSITORIES UNDER OPENAIRE STANDARDS

WHAT DOES FUNDANET DO TO BE PART OF RECOLECTA?

- **STAGES 3 y 4:** Once the process has been passed, it will be validated that the repository does indeed comply with the requirements. Next, your repository will be collected and indexed and then included in RECOLECTA's search engine.



THANK YOU!

Carlos Pérez Nicomedes
Fundanet-CRIS Product Manager
carlos.perez@semicrol.com

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ESPAÑA

SEMICROL S.L.
PCTCAN
C/ Isabel Torres, 7
39011 Santander - Cantabria
+34 942 314 224
semicrol@semicrol.es

MÉXICO

SEMICROL S.A. de C.V.
Insurgentes Sur 1425, Piso 18, Oficina 2
Colonia Insurgentes – Mixcoac
Benito Juárez – C.P. 03920
Ciudad de México (México)
+52 (55) 8842 8082
semicrol@semicrol.mx

COLOMBIA

SEMICROL.CO S.A.S
Calle 95 N° 14 – 45
Oficina 502
Edificio Nueve 5
Bogotá (Colombia)
+57 1 651 73 85
semicrol@semicrol.co

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Microsoft Partner

