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Implementation Status on Institutional CRIS/RIM Systems in Peru

Integration between the National PeruCRIS and Institutional CRIS systems

Authors:

Joel Alhuay-Quispe (UNMSM); Renato Velarde-Gutierrez (PUCP); Karla Peña-Pineda (INIA) & Lourdes Bautista-Ynofuente (UNMSM)



THE INTERNATIONAL ORGANISATION
FOR RESEARCH INFORMATION

Background and regulatory context

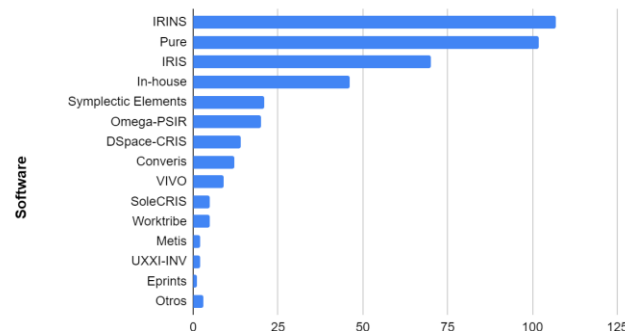
First CRIS in the world

1965 - CARIS (*Current Agricultural Research Information System*)

1969 - AGRIS (*International Information System for Agricultural Sciences and Technology*)

1970+

- SIS (Development Science Information System)
- INIS (International Atomic Energy Agency)
- UNISIST (Unesco)



OA projects in Latin America:

- **Mexico:** Latindex, an source for selection and directory of scholarly journals
- **Argentina:** La Referencia, a network of digital repositories for seven South American countries.
- **Chile:** Cybertesis, a network of digital thesis repositories for many countries.
- **Brazil,** SciELO, a digital scientific for electronic online journals.

South America for Open Access

Peru is part of Nations Andean Community (Comunidad Andina – CAN)



Ecuador

The Ecuadorian Open Access Repository Network (COAR) and the Ecuadorian Researchers' Repository (REDI) are examples of CRIS experiences in Ecuador.

Colombia

Colombia initiated a national CRIS pilot in 2016 based on Elsevier's Pure, but there are currently no known cases of CRIS at the national level in the country.

Chile

Chile has Law 21105, which promotes science and innovation, and platforms such as Data Ciencia and the Researcher's Portal to visualise scientific production.

Peru

Peru has promoted the creation of digital repositories through Law No. 30035. The PeruCRIS project was launched in August, 2022 although the CRIS Directive for institutions is dated May, 2022.

National CRIS - Regulatory framework

2018

Law No. 30806 – Law amending several articles of Law No. 28303 (Framework Law on Science, Technology and Technological Innovation) and Law No. 28613 (Law of the National Council for Science, Technology and Technological Innovation – CONCYTEC).

2019

Supreme Decree No. 237-2019-EF – National Competitiveness and Productivity Plan 2019–2030.

2021

Law No. 31250 – Law of the National System for Science, Technology and Innovation (SINACTI).

2022

Regulations governing the interoperability of the National Science, Technology and Innovation Information Network (CTI):

- Presidential Resolution No. 054-2022-CONCYTEC-P - **20/05/2022**.
- Directive No. 003-2022-CONCYTEC-P (PeruCRIS Directive) - **22/05/2022**.
- PeruCRIS Guidelines for Scientific Information Management System Administrators (**March, 2022**).

2024

Regulation of Law No. 31250 (Law of the National System for Science, Technology and Innovation – SINACTI) approved.

Key facts toward National CRIS

2017

Peru signed an IBRD 8682-PE loan with the International Bank for Reconstruction and Development (BIRF) for the implementation of the Project for the Improvement and Expansion of SINACYT's Services.

2018

1st and 2nd Meeting of CTI Information Managers (July in Arequipa, and October in Lima).

2019

Regional meetings of the National Network of Open Access CTI Digital Repositories.

2020

- Concytec signed a contract for the development of the #PeruCRIS Platform with the 4Science-Semicrol consortium (15/06/2020).
- Installation of the PeruCRIS Working Group held 20 technical meetings with 25 institutions (17/04/2020 - Aug-2020).

Key facts toward National CRIS

2021

Concytec publishes PeruCRIS Guidelines (preliminary version) for CRIS system managers (**Nov-2021**).

2023

The official PeruCRIS portal was launched and went live (**Aug-2023**).

2024

Concytec updates PeruCRIS Guidelines (version 1.1) for CRIS system managers (**Apr-2024**).

2025

Concytec reports that the interoperability between an institutional CRIS (INIA) and PeruCRIS is completed (**May-2025**).

Background: OCLC-euroCRIS 2018 Survey

The results of a survey conducted by OCLC through CONCYTEC identified only six projects declared to be in “Production” status. These respondents provided feedback on the usefulness of their CRIS systems:



Source: Melgar, et al. (2018). Current Status of Research Information Management in Peru. <http://hdl.handle.net/11366/672>

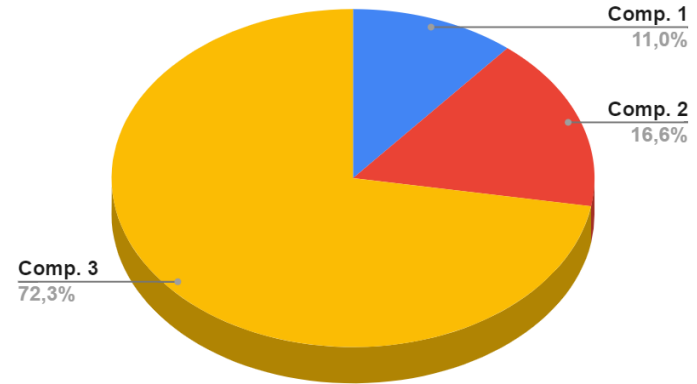
Investment for National CRIS implementation

PeruCRIS project led by the National Council for Science, Technology and Technological Innovation (Concytec) with implementation from February 2018 to December 2021.

It is structured in three components:

- the **first** to improve the institutional framework and governance of SINACYT
- the **second** to identify priorities, resource allocation and capacity building of SINACYT actors
- the **third** to develop SINACYT through grants, equipment funding and I+D+i projects.

Amount: Investment of 100 million dollars (US\$ 55 mill. Peruvian State WB: US\$ 45 mill. World Bank).



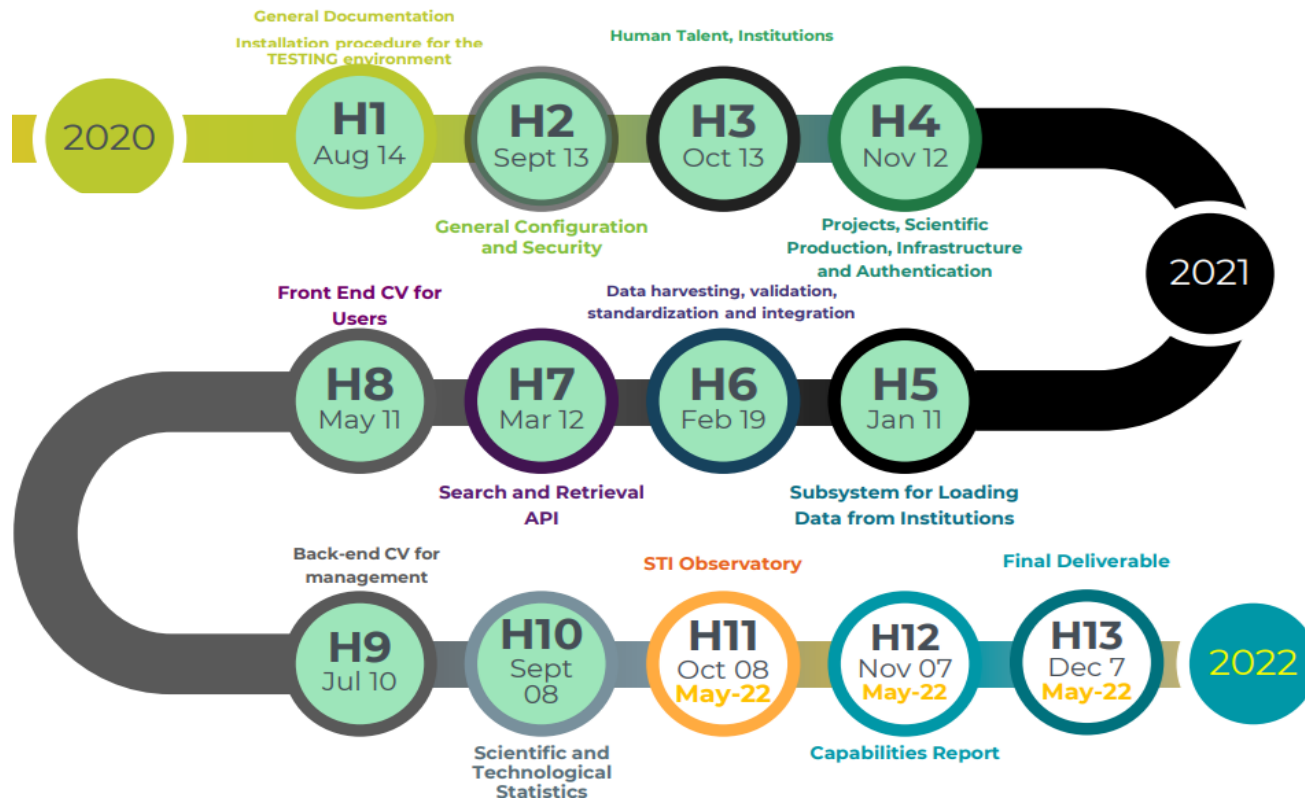
Key Objectives of PeruCRIS

- Enable the development of scientific and technological statistics.
- Provide information for the planning, promotion, execution and evaluation of STI activities.
- Promote the systematic dissemination of academic, technical and industrial knowledge and human capacities in STI.
- Facilitate access to national and foreign STI information sources.



Source: <https://www.gob.pe/institucion/concytec/noticias/286073-concytec-suscribe-contrato-para-desarrollo-de-plataforma-perucris>

Roadmap of PeruCRIS project



Functionalities and technologies in PeruCRIS

Technologies & Tools

- Core-software: **DSpaceCRIS** (v.7)
- Analytics: **Apache Superset**, **Dremio (Data Lake)**
- Integration: **MuleESB**, **OJS**, **Dataverse**, **WordPress**

Interoperability & Data Exchange

- **REST APIs** and **SOAP Web Services**
- **OAI-PMH** for harvesting at national and regional levels
- Data input from external databases
- Integration with **Concytec**, **PIDE-PCM**, and other government sources

Data Governance and Intelligence

- Business intelligence: reports, dashboards, analytics, indicators
- **Geolocated data** and visual insights
- On-premise deployment in **AWS** cloud environment

Functionalities and technologies in PeruCRIS

Digital Identity and trust services

- **Federated Authentication, OAuth 2.0**
- Validation via **IDPerú** (RENIEC/PCM)
- **Digital certificates** and DNI-e validation

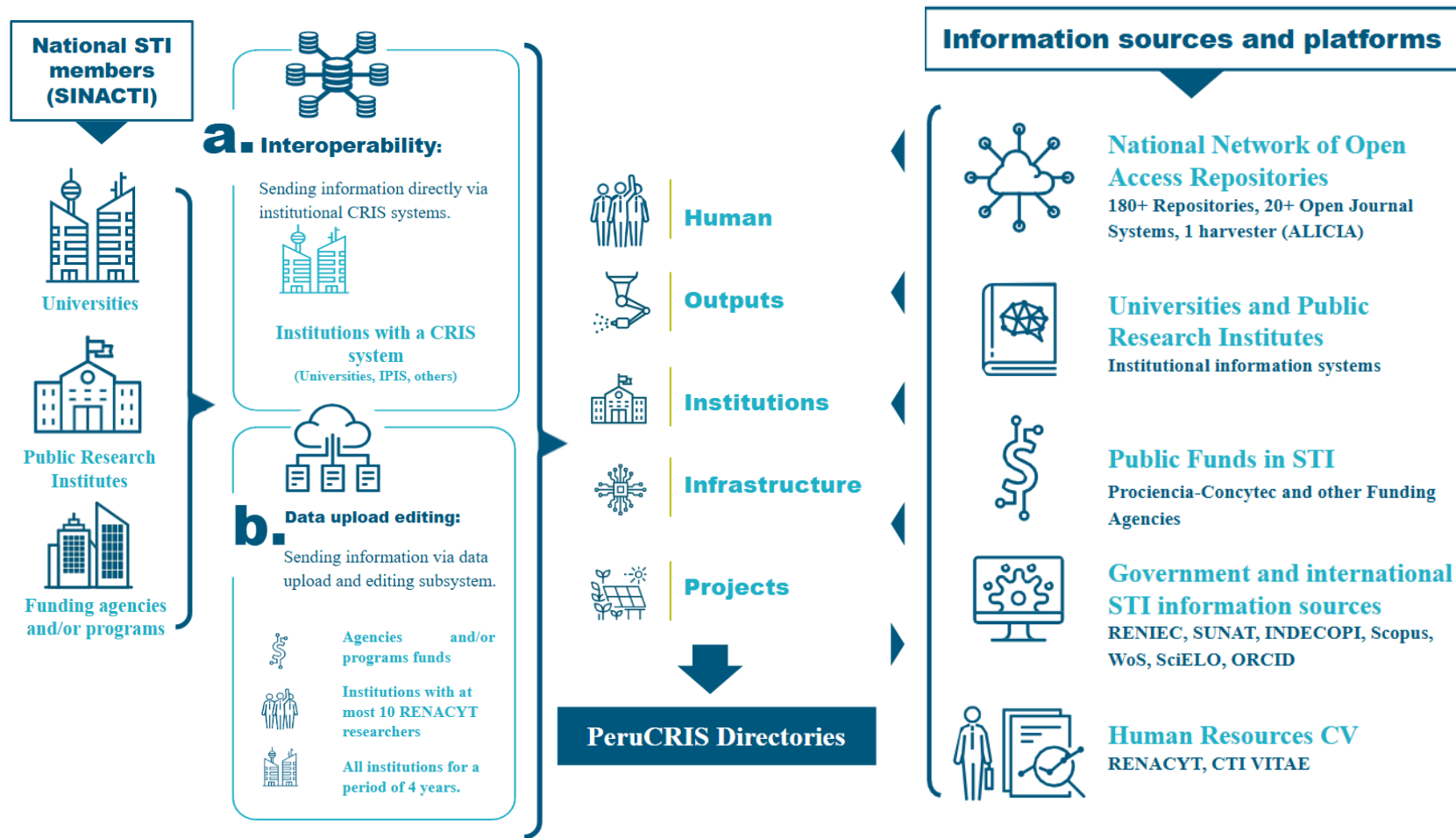
Researcher services

- **Researcher CV profiles** via DSpaceCRIS
- Centralized **Research Hub** with integrated data
- Modern UI/UX: **Angular (front-end), Java (back-end)**

Policy alignment

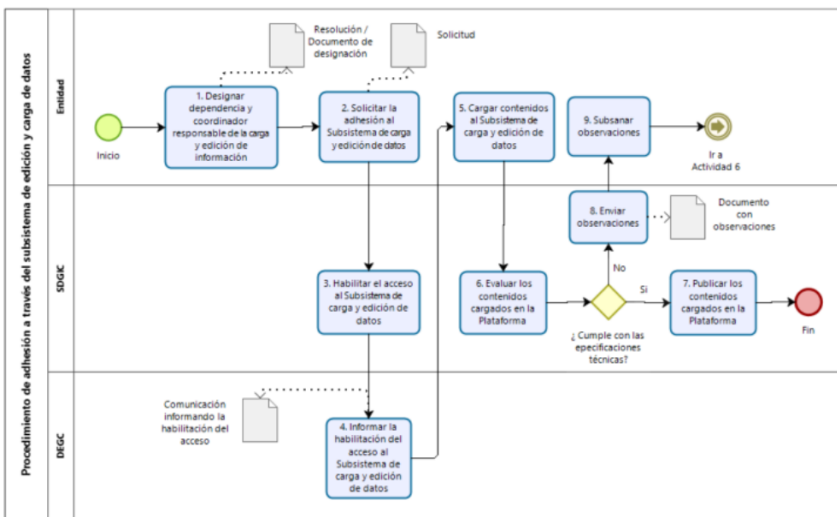
- Full support for **CONCYTEC** procedures
- Data governance aligned with national science policy
- Information observatory for CTI (Science, Technology, Innovation)

PeruCRIS - Peruvian Nacional CRIS System

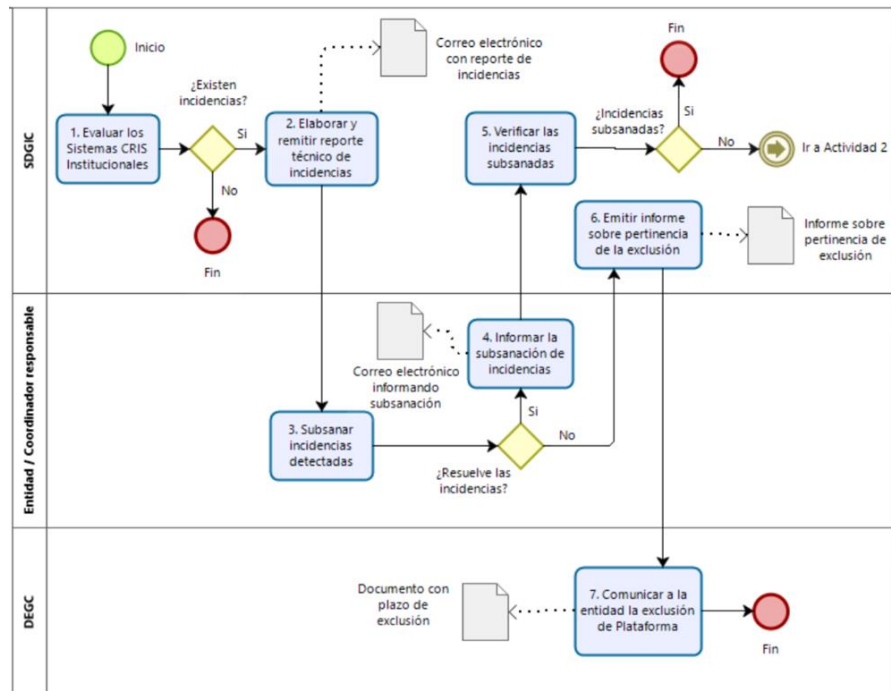


Ways to joint National CRIS system

Option 1: Metadata entry and editing subsystem



Option 2: Interoperability between CRIS systems



PeruCRIS at released time and today

Before: PeruCRIS portal released in August, 2023



www.perucris.pe

PeruCRIS at released time and today

Today: PeruCRIS portal in May, 2025

The screenshot shows the PeruCRIS portal homepage. At the top left are the logos for CONCYTEC and PeruCRIS. At the top right is a search icon and a link to 'Inicio de Sesión'. The main banner features a blue background with a network diagram. It includes a welcome message, a description of the platform's content, and a search bar with the placeholder text 'Descubre...' and 'Buscar en repositorio ...'. Below the banner is a navigation bar with five categories, each represented by an icon and a count:

Talento Humano	Instituciones	Producción científica	Proyectos	Infraestructura
20100	6925	106162	14213	1596

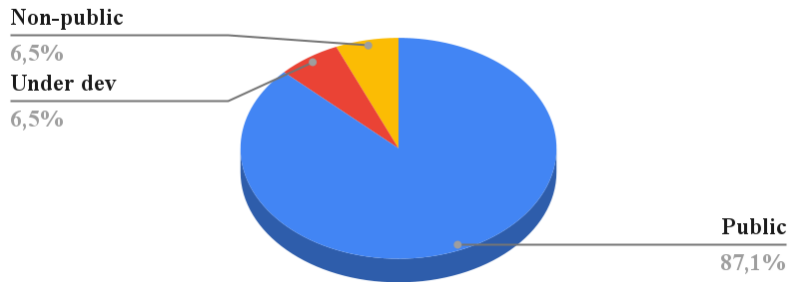
www.perucris.pe

Findings: CRIS/RIM system in Peru

Results: 31 CRIS/RIM systems were identified in Peru, from May, 2019 to March, 2025.

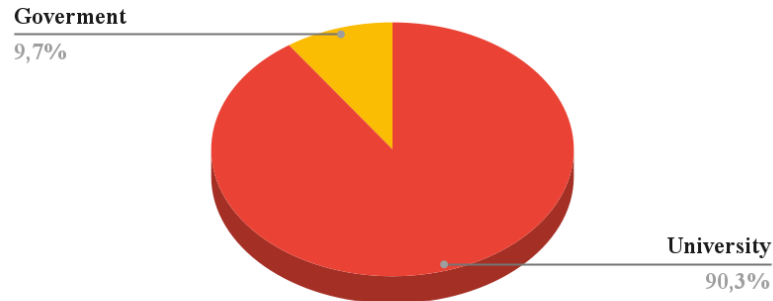
What is status?

Figure 2. Implementation of CRIS/RIM systems in Peru



Who support?

Figure 3. Organisation of CRIS/RIM systems in Peru



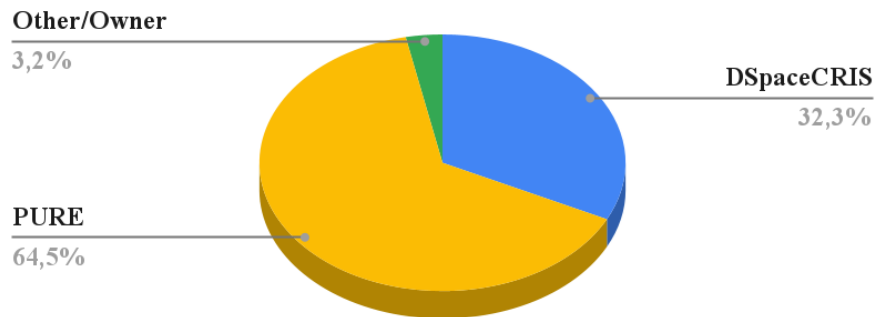
Source: Elaboración propia.

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What software use?

Figure 4. Software used by CRIS/RIM systems in Peru



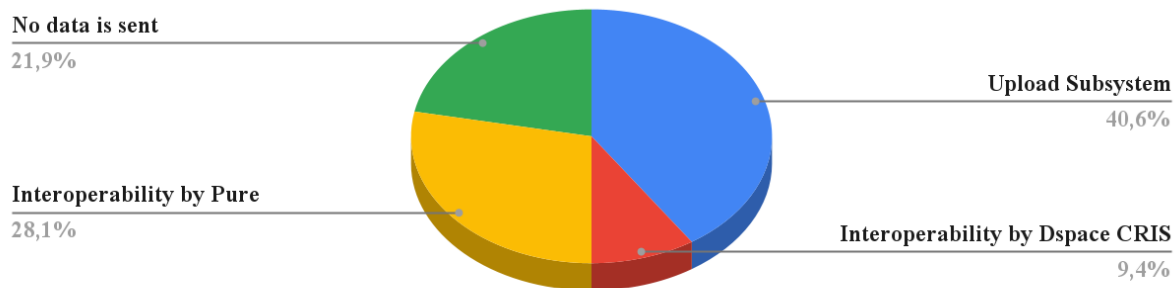
Source: Elaboración propia.

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How integrates with National CRIS?

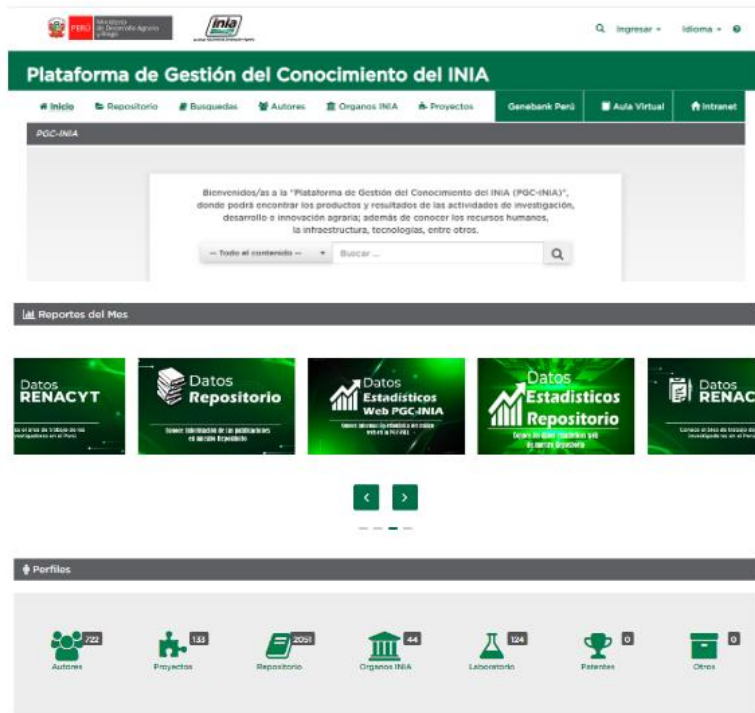
Figure 5. Adherence by sending data to PeruCRIS



Source: Elaboración propia.

First institutional CRIS interoperating to PeruCRIS

A historical milestone: 13, May 2025.



pgc-snia.inia.gob.pe



As conclusions

- The implementation of CRIS systems will create the need for specialized information professionals with the definition of new roles between research and information services.
- The recording of information, as well as ensuring data integrity, standardization, and validation, represents a major challenge for research information managers.
- Librarians will need to interact closely with research teams and understand the specific needs of researchers, taking on an advisory role in data management, policies, regulations, training, and the use of scientific information resources.
- The deployment of research management systems (CRIS) involves costs at multiple levels: product-level (web resources and IT infrastructure), human resources (specialized professionals), and institutional decision-making at the management or vice-rectorate level for research.

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Questions & Contact

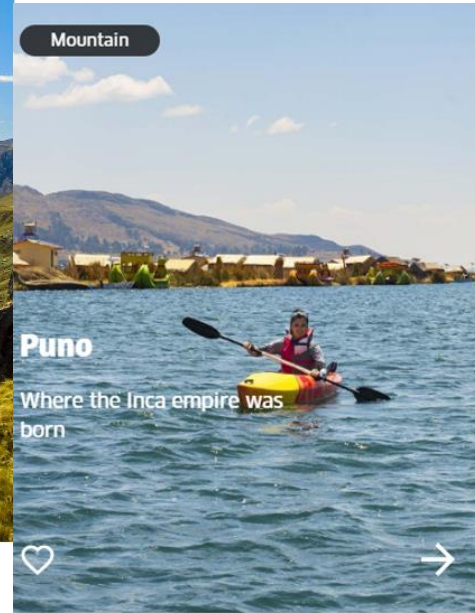
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Joel Alhuay-Quispe

<joel.alhuay@unmsm.edu.pe>

ORCID iD: [0000-0002-1903-4687](https://orcid.org/0000-0002-1903-4687)

Twitter: [@joel_alway](https://twitter.com/joel_alway)



Welcome to Peru

www.peru.travel