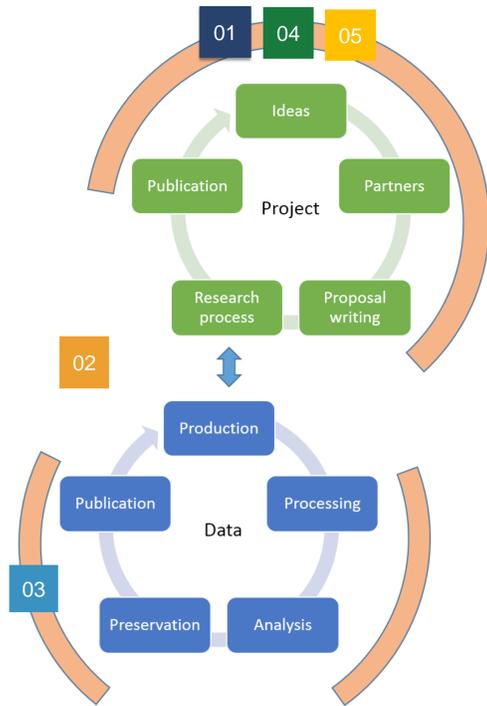


INTRODUCTION

As Life Sciences are becoming more and more data intensive disciplines, their digital practices have to evolve.

Adopting a vision centered on the scientific project lifecycle and the scientific data lifecycle, the **CeSGO project is developing science gateway services** on top of a bioinformatics infrastructure.

The portal offers an integrated environment composed of **five services** bridging project management and data analysis.



01 COLLABORATION

The CeSGO collaboration platform provides an environment to help scientists build and manage research projects.

The Collaboration platform is powered by WordPress & the BuddyPress plugin which adds community features and offers **social network** functionalities.



The main features of this platform are:

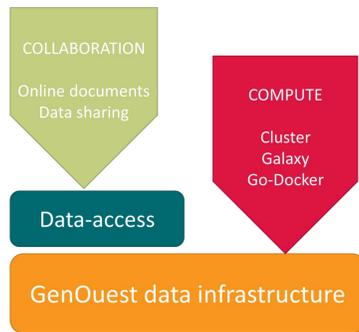
- ✓ groups
- ✓ collaborative documents
- ✓ forums
- ✓ file manager
- ✓ connections between users
- ✓ website creation and hosting

02 DATA MANAGEMENT

The CeSGO data-access service is a solution based on Owncloud which provides **storage access through a web interface**.

Data can be **shared** with Owncloud groups, users, or by link.

OnlyOffice integration offers **online and concurrent editing functionalities**.

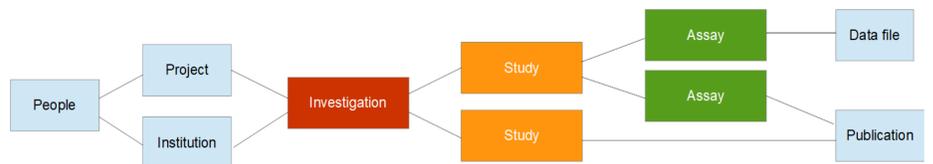


03 SCIENTIFIC RESEARCH

The CeSGO scientific research platform is powered by the SEEK web application.

Its purpose is to **share heterogeneous scientific research datasets**, models, simulations, processes and research outcomes.

It preserves associations between them, along with information about the people and organizations involved. The research can be organized into **investigations, studies and assays** (experiments) based on the ISA model.



04 PROJECT MANAGEMENT



The CeSGO projects service is powered by KanBoard.

It provides a visual system for **managing tasks** within a private or shared project.

A **calendar** and a **Gantt diagram** are available to handle tasks in addition to the classic board view.

05 INSTANT COLLABORATION

CeSGO instant is a live chat service.

Based on Rocket.Chat, it allows **instant discussion** with a user or a group of users.



CONCLUSION

The federation of collaborative tools and services in conjunction with a computing environment (cloud, cluster, Galaxy) offers a gateway suitable for mid-size computing facilities.

The fact that the data are co-localized with the collaborative services creates a "one-stop-shop" that will help scientists to adopt new usages.

01	COLLABORATION	https://www.cesgo.org/collaboration
02	DATA MANAGEMENT	https://data-access.cesgo.org
03	SCIENTIFIC RESEARCH	https://seek.cesgo.org
04	PROJECT MANAGEMENT	https://projects.cesgo.org
05	INSTANT COLLABORATION	https://instant.cesgo.org

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