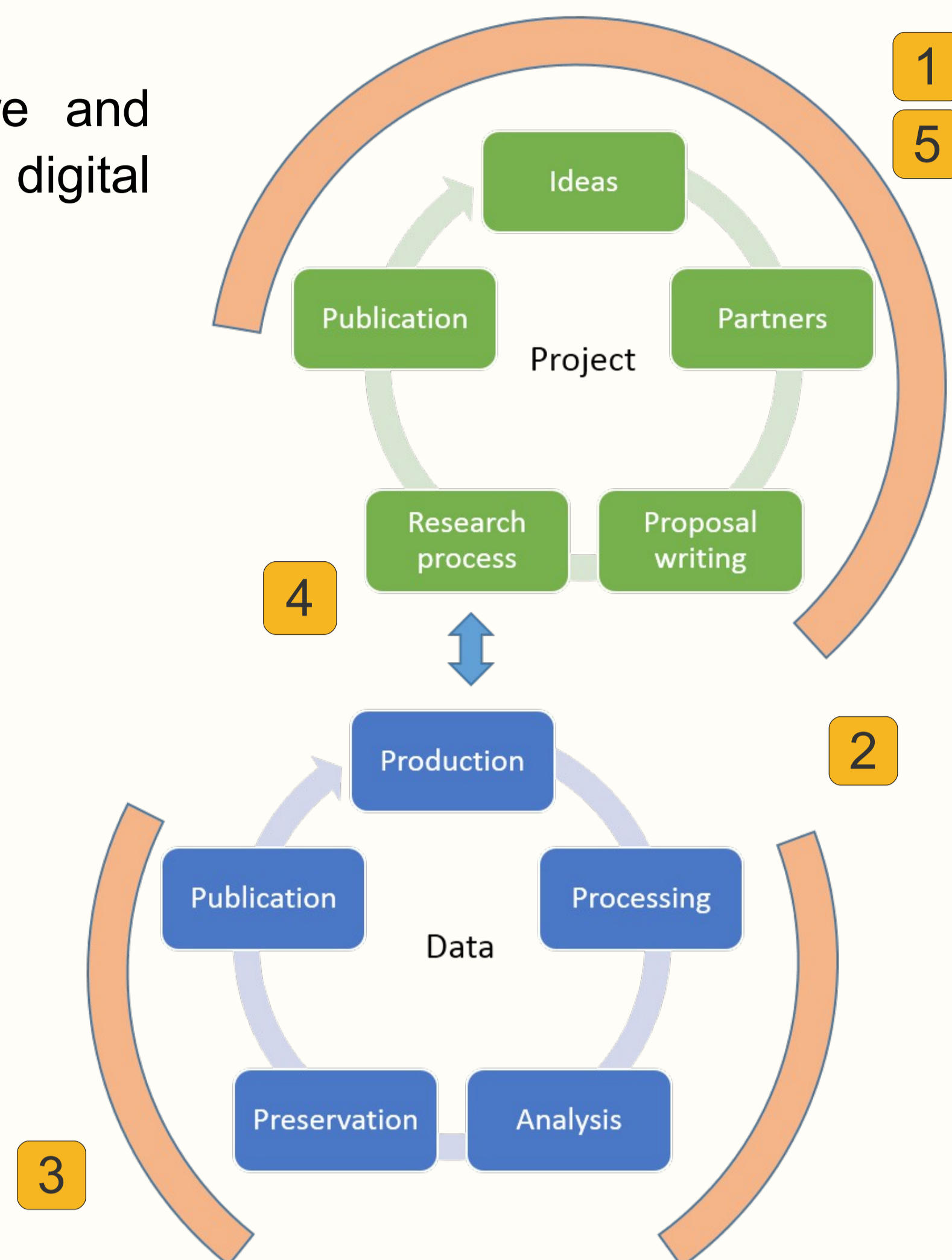


INTRODUCTION

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.

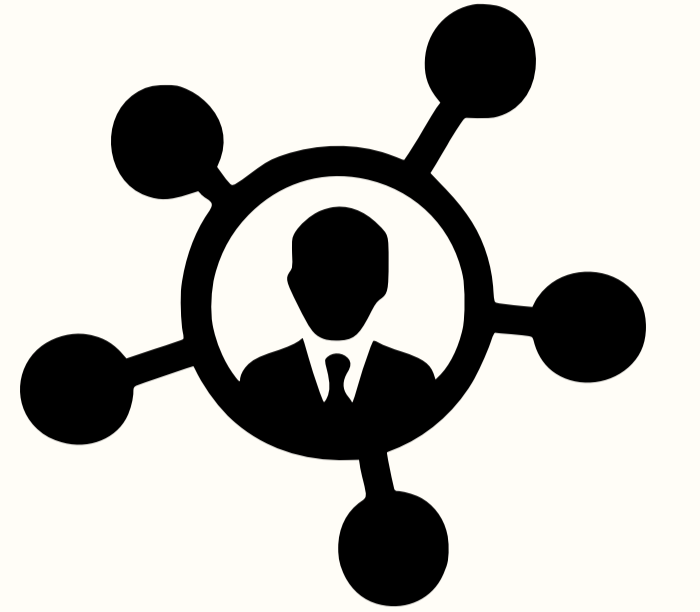


1

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. BuddyPress 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

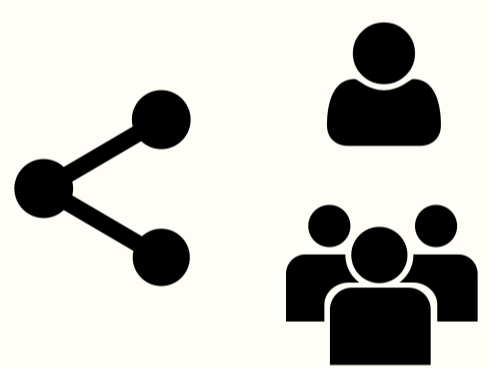
2

DATA ACCESS



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

In addition, it allows importation of **external storages** in order to centralize data.



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

OnlyOffice integration offers online and concurrent editing functionalities.



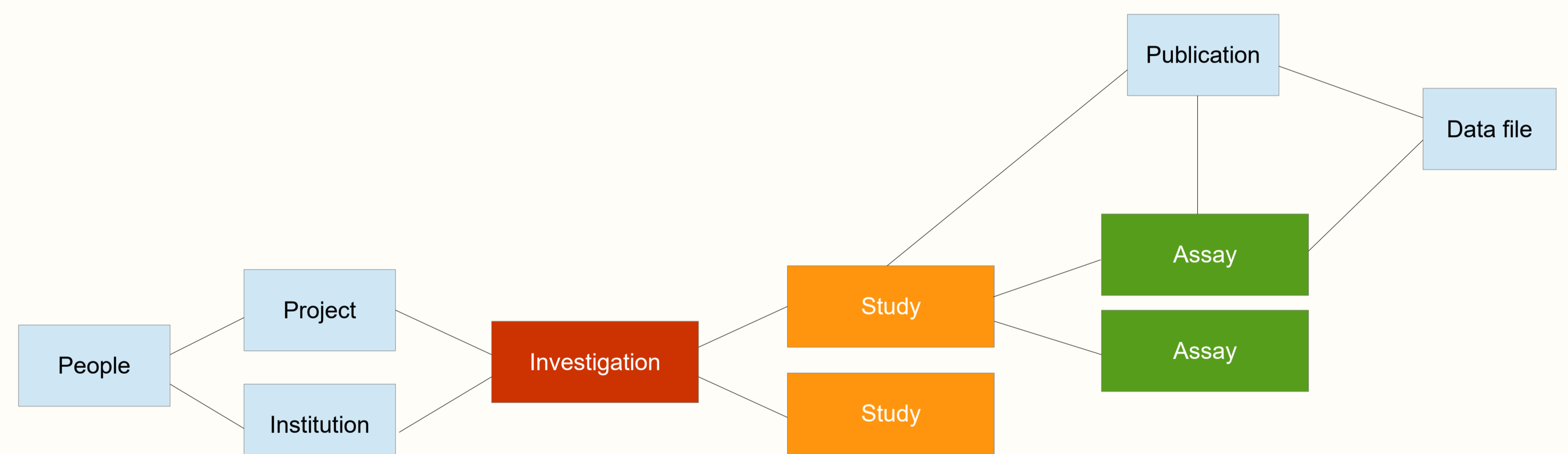
3

RESEARCH SHARING

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 organisations involved. The research can be organised into investigations, studies and assays (experiments) based on the ISA model.



Seek allows CeSGO to propose a **FAIR** data and model management service.

4

PROJECTS



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.

5

INSTANT

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 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.

ACCESS

A GenOuest account is required to access all CeSGO services.

Ask for your account at <https://my.genouest.org>.



LINKS

CeSGO entry point:

<https://www.cesgo.org>

1 CeSGO collaboration

<https://www.cesgo.org/collaboration>

2 CeSGO data-access

<https://data-access.cesgo.org>

3 CeSGO research sharing

<https://seek.cesgo.org>

4 CeSGO projects

<https://projects.cesgo.org>

5 CeSGO instant

<https://instant.cesgo.org>