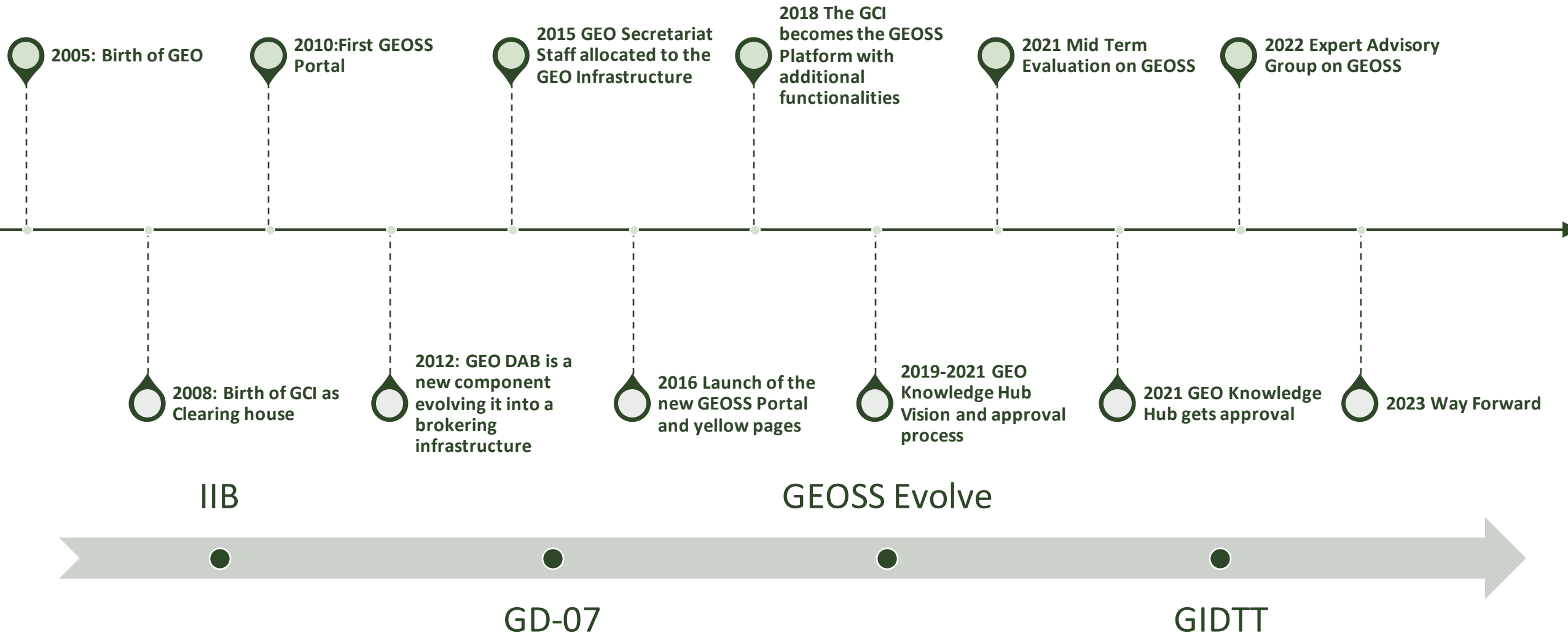




OPEN DATA & OPEN KNOWLEDGE Workshop

GEO Knowledge Hub: Past, Present, and Future

History: GEOSs Infrastructure Journey since GEO's Birth





GEO Knowledge Hub

GEO Knowledge Hub releases

2020

Version 0.1.0

2021

Version 0.3.0

Version 0.6.0

Version 0.8.0

2022

Version 1.0.0

Version 1.2.0

Version 1.3.0

Version 1.4.0

2023

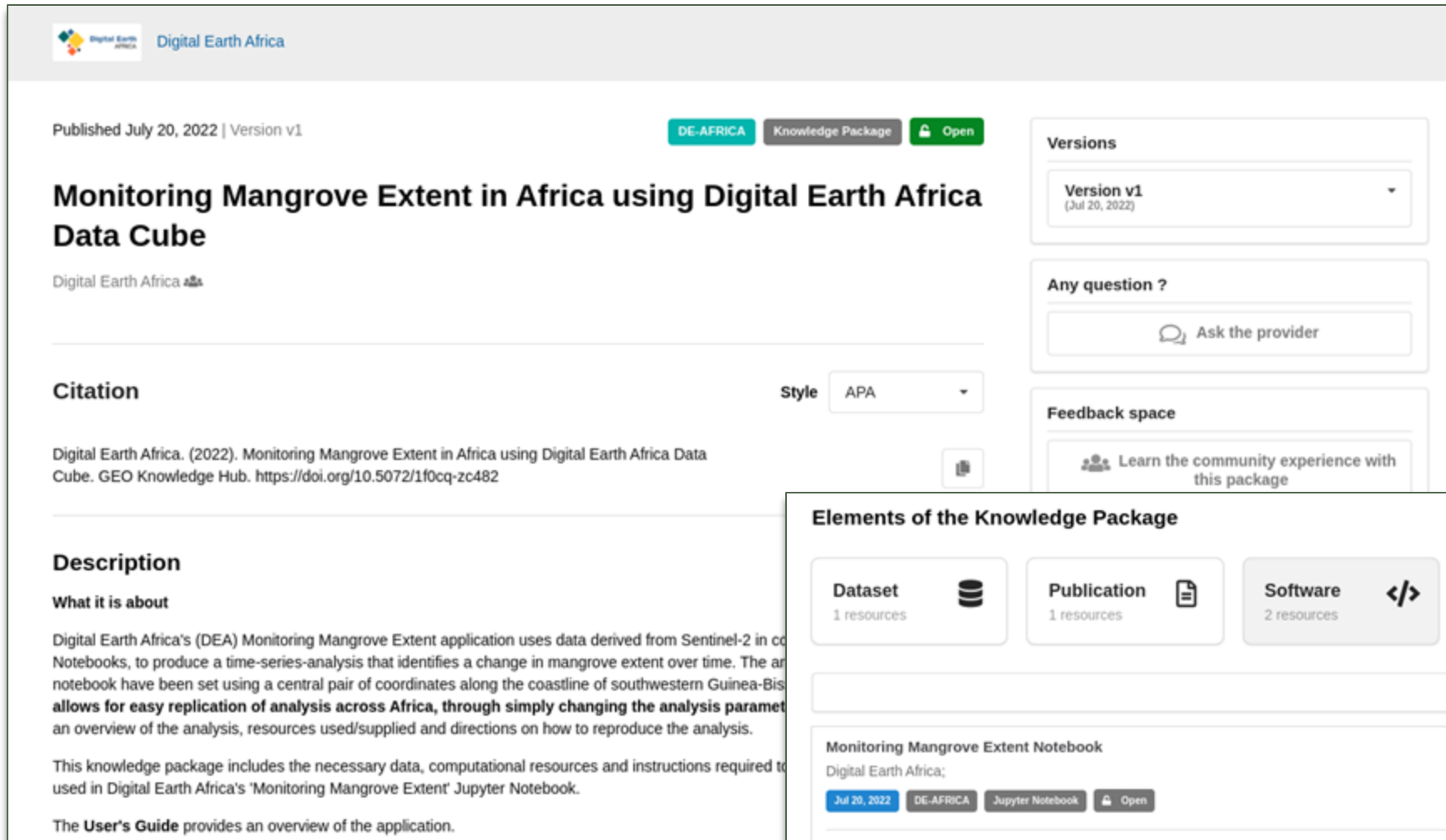
Version 1.5.0

Version 1.6.0

Community-centric approach



Knowledge Package page



Digital Earth Africa

Published July 20, 2022 | Version v1

DE-AFRICA Knowledge Package Open

Monitoring Mangrove Extent in Africa using Digital Earth Africa Data Cube

Digital Earth Africa

Citation Style: APA

Digital Earth Africa. (2022). Monitoring Mangrove Extent in Africa using Digital Earth Africa Data Cube. GEO Knowledge Hub. <https://doi.org/10.5072/1f0cq-zc482>

Description

What it is about

Digital Earth Africa's (DEA) Monitoring Mangrove Extent application uses data derived from Sentinel-2 in cloud notebooks, to produce a time-series-analysis that identifies a change in mangrove extent over time. The application notebooks have been set using a central pair of coordinates along the coastline of southwestern Guinea-Bissau. This application **allows for easy replication of analysis across Africa, through simply changing the analysis parameters**. This knowledge package includes the necessary data, computational resources and instructions required to reproduce the analysis. The **User's Guide** provides an overview of the application.

Versions

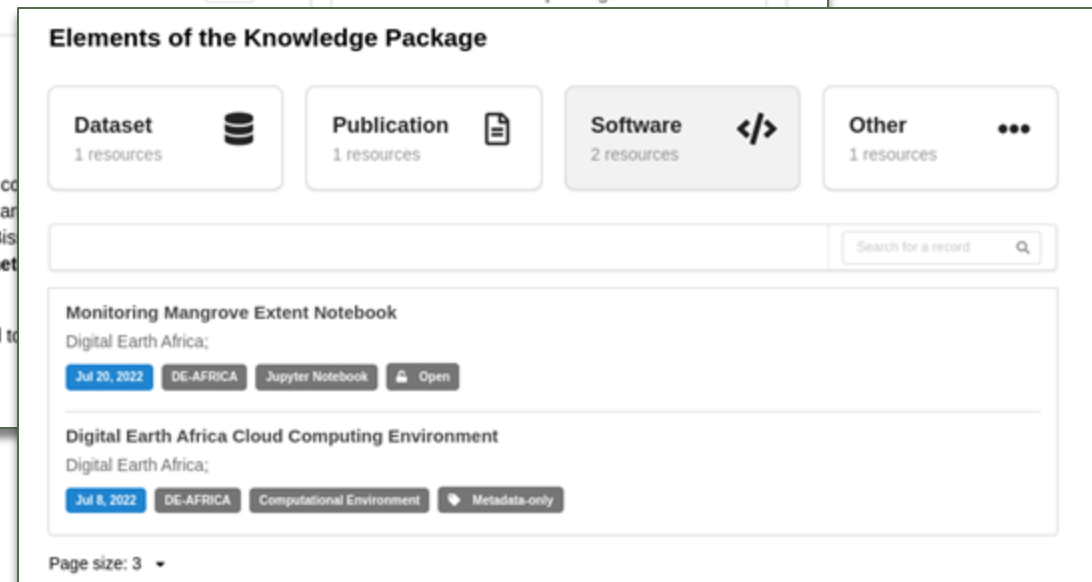
Version v1 (Jul 20, 2022)

Any question ?

Ask the provider

Feedback space

Learn the community experience with this package



Elements of the Knowledge Package

Dataset 1 resources	Publication 1 resources	Software 2 resources	Other 1 resources
-------------------------------	-----------------------------------	--------------------------------	-----------------------------

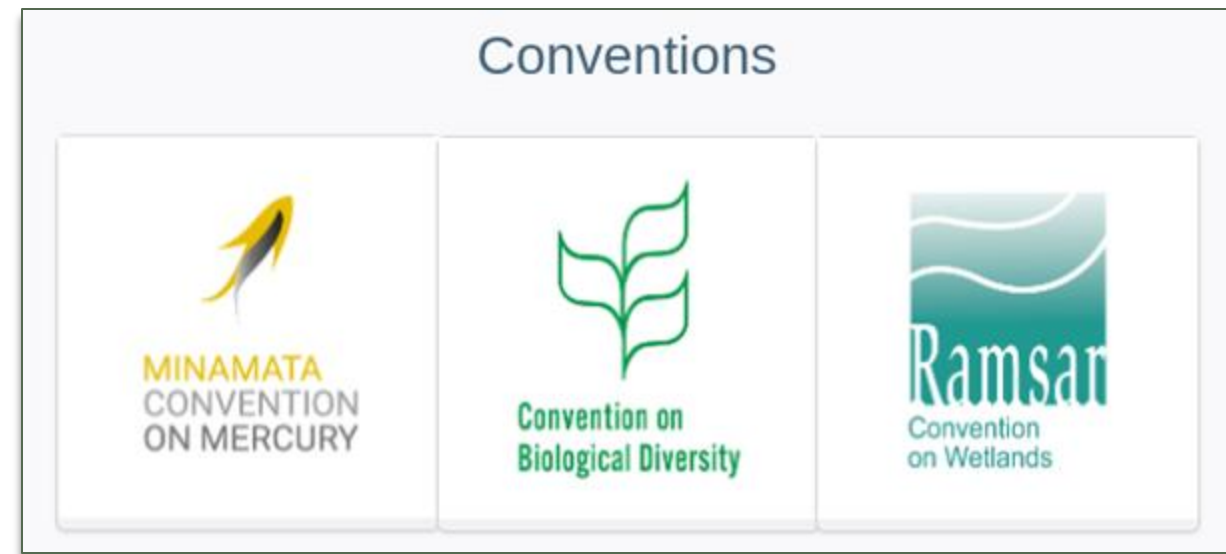
Search for a record

Monitoring Mangrove Extent Notebook
Digital Earth Africa;
Jul 20, 2022 DE-AFRICA Jupyter Notebook Open

Digital Earth Africa Cloud Computing Environment
Digital Earth Africa;
Jul 8, 2022 DE-AFRICA Computational Environment Metadata-only

Page size: 3

Thematic Search



Spatial Search



Search filter

Basic properties **Spatial extent**

Geometry

The image displays two overlapping screenshots of a web-based spatial search interface. The top screenshot shows a world map with a search area highlighted in the Arctic region. The bottom screenshot shows the same world map with a search area highlighted in Africa. Both screenshots include a search filter panel on the left and a search bar on the right. The bottom screenshot also includes a legend at the bottom left and a copyright notice at the bottom right.

Real-time exchange



Ask the provider

Felipe Menino Carlos commented 1 minute ago
Very good Knowledge Package!

Felipe Menino Carlos commented 48 seconds ago
Where can I access the data? 😊
Edited

Feedback space

Community feedback for **Land use and land cover classification in the Brazilian Cerrado biome using Brazil Data Cube**

5/5
GENERAL RATING ▾

[Share your feedback](#)

Felipe Menino Carlos commented 0 seconds ago

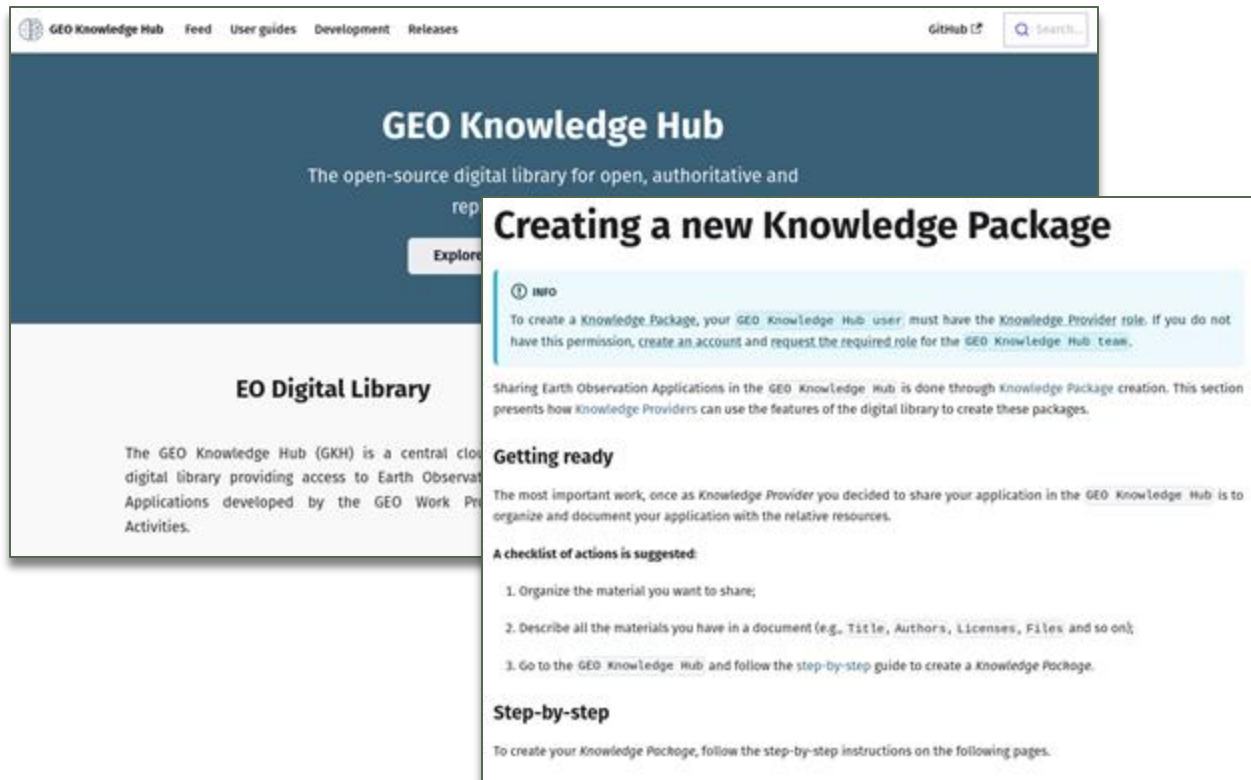
The content of the Knowledge Package is very well organized. All the elements needed to understand and reuse the application are available.

As a future recommendation, try to add other examples of how the application can be used.

CLARITY	USEFULNESS	REUSABILITY
5/5	5/5	5/5

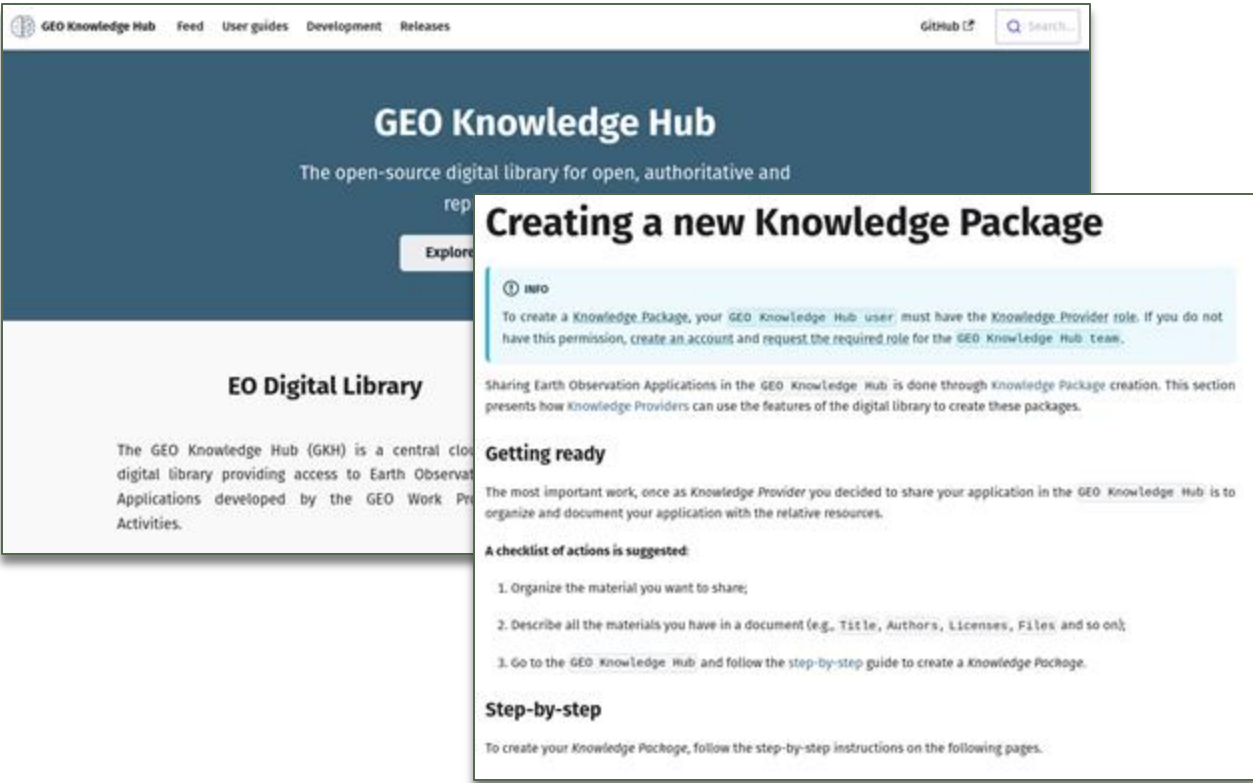
We are now **expanding** the
GEO Knowledge Hub

Documentation



The screenshot shows the GEO Knowledge Hub website. The top navigation bar includes links for 'GEO Knowledge Hub', 'Feed', 'User guides', 'Development', and 'Releases', along with a 'GitHub' icon and a search bar. The main header reads 'GEO Knowledge Hub' with the subtitle 'The open-source digital library for open, authoritative and...'. Below this is a section titled 'EO Digital Library' with a brief description. A modal window is overlaid on the page, titled 'Creating a new Knowledge Package'. It contains an 'intro' section with a warning icon and text: 'To create a Knowledge Package, your GEO Knowledge Hub user must have the Knowledge Provider role. If you do not have this permission, create an account and request the required role for the GEO Knowledge Hub team.' This is followed by a paragraph explaining that sharing Earth Observation Applications is done through Knowledge Package creation. The 'Getting ready' section states that the most important work is to organize and document the application. A 'checklist of actions is suggested' with three items: 1. Organize the material you want to share; 2. Describe all the materials you have in a document (e.g., Title, Authors, Licenses, Files and so on); 3. Go to the GEO Knowledge Hub and follow the step-by-step guide to create a Knowledge Package. The 'Step-by-step' section begins with the instruction: 'To create your Knowledge Package, follow the step-by-step instructions on the following pages.'

Documentation



GEO Knowledge Hub
The open-source digital library for open, authoritative and

EO Digital Library
The GEO Knowledge Hub (GKH) is a central cloud-based digital library providing access to Earth Observation Applications developed by the GEO Work Programme Activities.

Creating a new Knowledge Package

Intro
To create a Knowledge Package, your GEO Knowledge Hub user must have the Knowledge Provider role. If you do not have this permission, create an account and request the required role for the GEO Knowledge Hub team.

Sharing Earth Observation Applications in the GEO Knowledge Hub is done through Knowledge Package creation. This section presents how Knowledge Providers can use the features of the digital library to create these packages.

Getting ready

The most important work, once as Knowledge Provider you decided to share your application in the GEO Knowledge Hub is to organize and document your application with the relative resources.

A checklist of actions is suggested:

1. Organize the material you want to share;
2. Describe all the materials you have in a document (e.g., Title, Authors, Licenses, Files and so on);
3. Go to the GEO Knowledge Hub and follow the step-by-step guide to create a Knowledge Package.

Step-by-step

To create your Knowledge Package, follow the step-by-step instructions on the following pages.


Feed

Welcome to the Feed

A place to keep updated about the GEO Knowledge Hub content

Introducing the GEO Knowledge Hub Feed

This post introduces the new tool available on the GEO Knowledge Hub ecosystem.

 **GEO Knowledge Hub Team**
Group on Earth Observations

Hello, dear GEO Knowledge Hub Community.

For some time now, we, the GEO Knowledge Hub team, have received several requests to assist the community in promoting new Knowledge Packages published on GEO Knowledge Hub. To support the community, we've added a new tool to the GEO Knowledge Hub ecosystem: The Feed.



Knowledge Package

Published June 1, 2023 | Version 2023

DATA-WG Knowledge Package Metadata-only

GEO Dialogue Series (2023)

GEO Data Working Group

Citation

Style APA

GEO Data Working Group. (2023). GEO Dialogue Series (2023) (Version 2023). GEO Knowledge Hub. <https://doi.org/10.60566/2n6ja-2g648>

Description

GEO Dialogue Series 2023 is the second season of webinars organized by the [Group on Earth Observations \(GEO\)](#).

The GEO Dialogue Series 2023 focuses on the GEO Open Knowledge statement.

In the dialogue series, we discuss each component of Open Knowledge and how we can progress from open data sharing, supported by the GEO data management principles, to the FAIR, CARE, and TRUST principles, ultimately achieving open knowledge. Open

Versions

Version 2023 (Jun 1, 2023)

Any question ?

Ask the provider

Feedback space

Learn the community experience this package

Details

DOI

DOI: [10.60566/2n6ja-2g648](https://doi.org/10.60566/2n6ja-2g648)

[10.60566/2n6ja-2g648](https://doi.org/10.60566/2n6ja-2g648)

Resources

Published June 5, 2023 | Version 2023

DATA-WG Lesson (Training material) Open

Dialogue 4. Open Software, Open Infrastructure, Open Hardware

GEO Data Work Group

Others: Lija Bye, Bernt¹; Voidrot, Marie-Francoise²; Huang, Thomas Huang³; Bernasocchi, Marco⁴; Minghini, Marco⁵; Gonzalez, Oscar⁶

Show affiliations

Citation

Style APA

GEO Data Work Group. (2023, June 5). Dialogue 4. Open Software, Open Infrastructure, Open Hardware. GEO Knowledge Hub. <https://doi.org/10.60566/zrnza-gh061>

Versions

Version 2023 (Jun 5, 2023)

Any question ?

Ask the provider

Feedback space

Learn the community experience with this package

Details

DOI

DOI: [10.60566/zrnza-gh061](https://doi.org/10.60566/zrnza-gh061)

[10.60566/zrnza-gh061](https://doi.org/10.60566/zrnza-gh061)

GEO Knowledge Hub Ecosystem

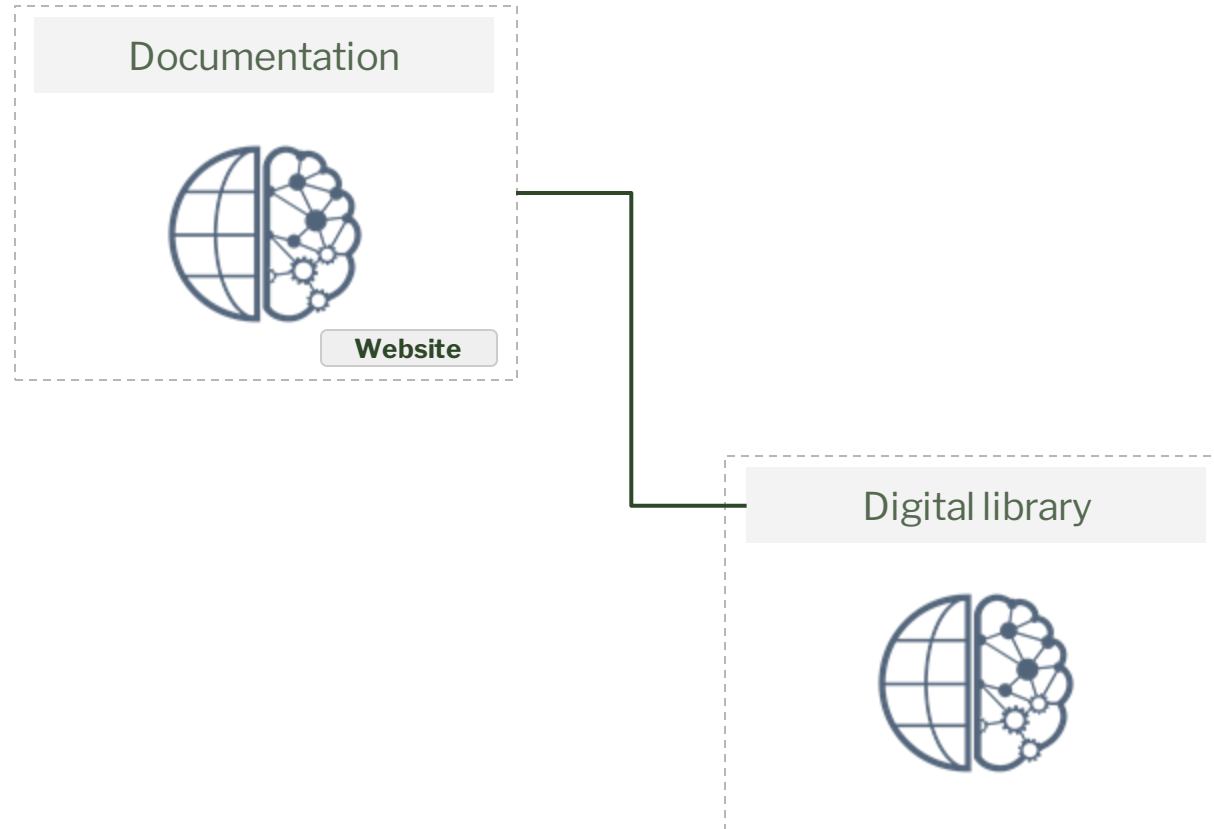


GEO Knowledge Hub Ecosystem

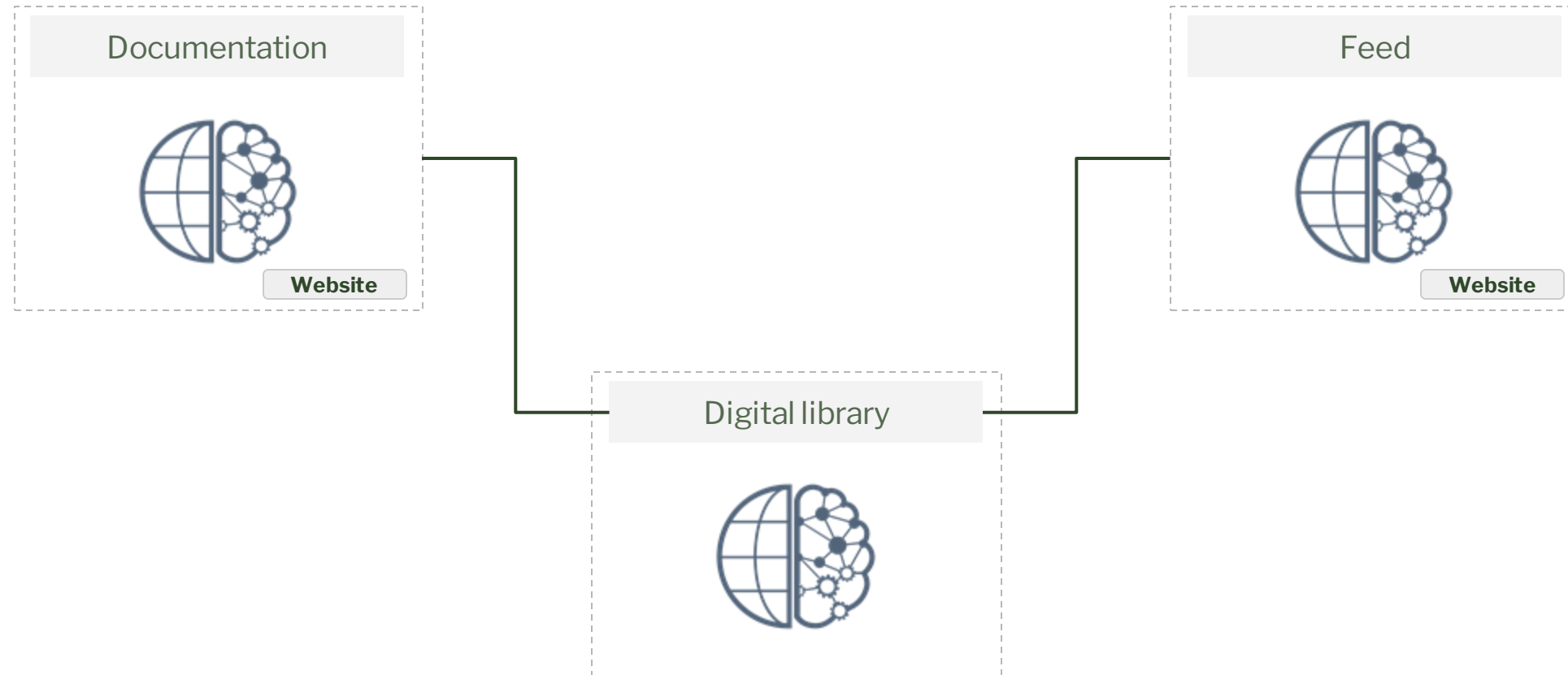
Digital library



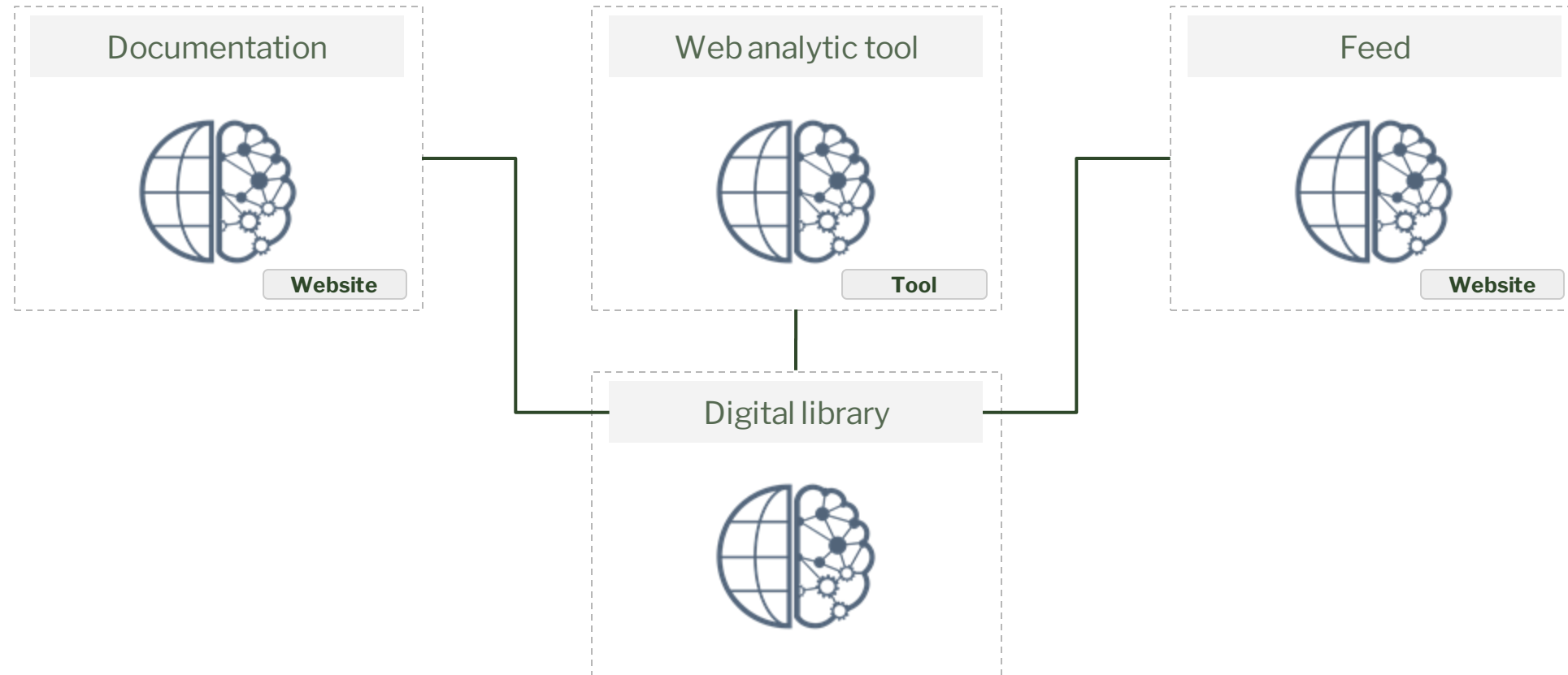
GEO Knowledge Hub Ecosystem



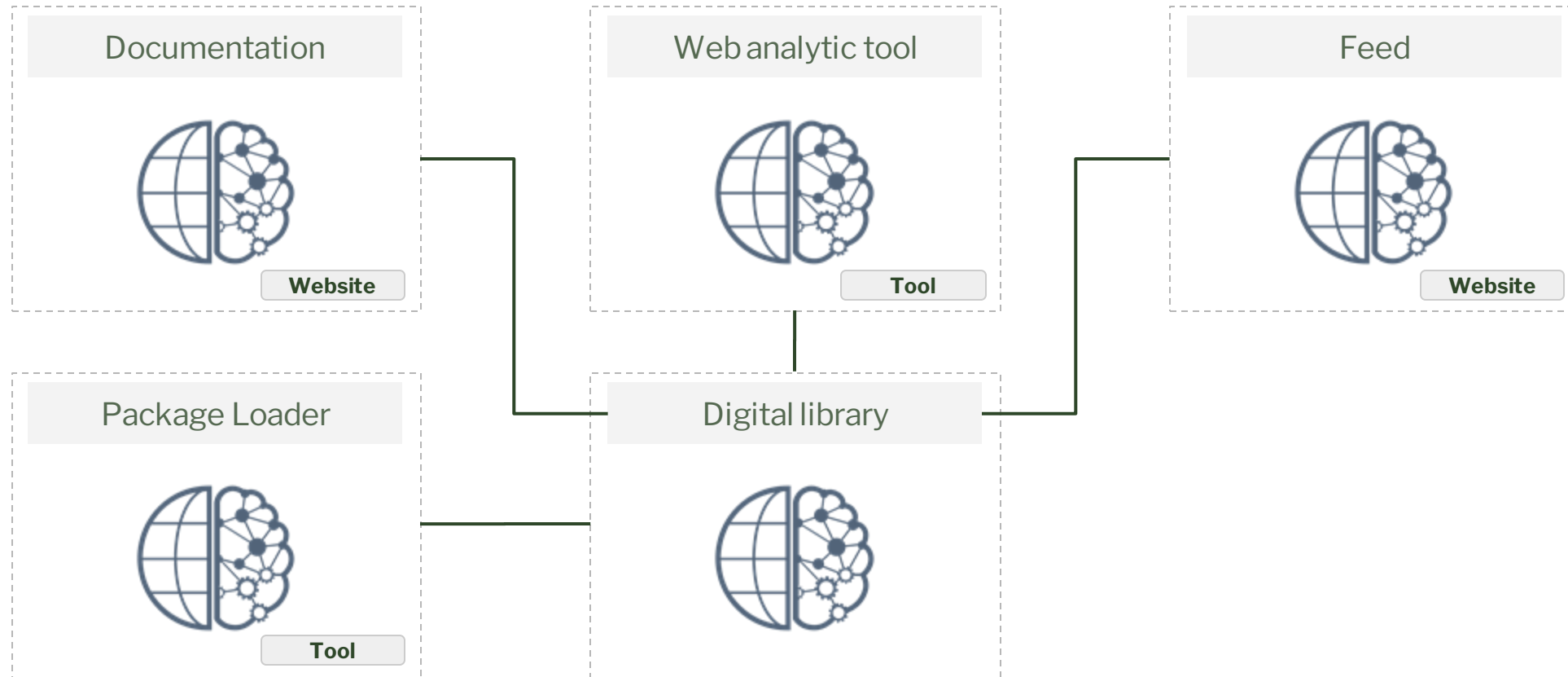
GEO Knowledge Hub Ecosystem



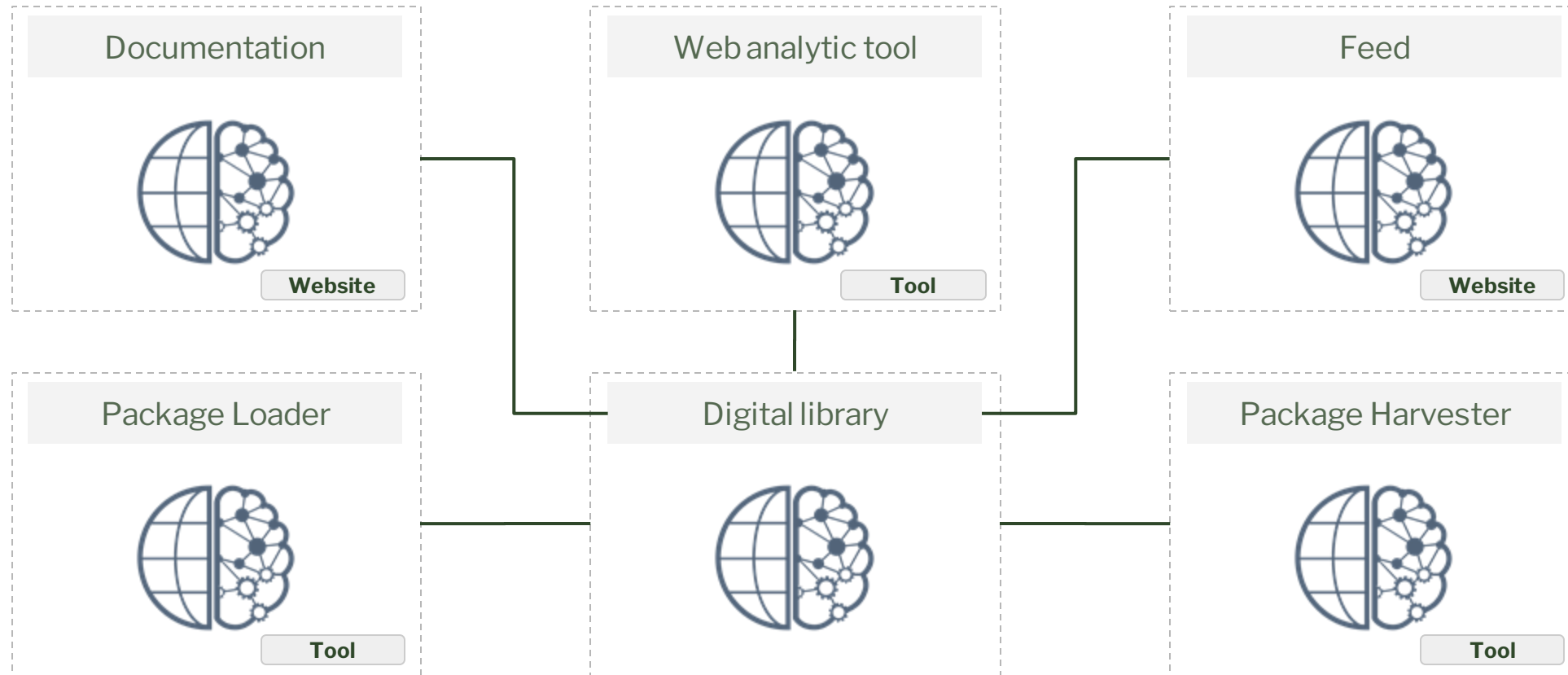
GEO Knowledge Hub Ecosystem



GEO Knowledge Hub Ecosystem



GEO Knowledge Hub Ecosystem



Knowledge Package content

107

Knowledge
Packages

508

Knowledge
Resources

14

GEO Activities

Our future

We aim to **evolve** the digital library **always** to **support** the
GEO community

Our future

Our future

Continue enhancing the ecosystem

Our future

Continue enhancing the ecosystem

Features to empower users

Our future

Continue enhancing the ecosystem

Features to empower users

Integration with the GEO ecosystem

Thank you