GEO Knowledge Hub to preserve and share EO Applications: Introduction and practice

GEO Knowledge Hub team

Date: 21th of March from 10:30 to 12:30 (Geneva time)

Where: EIFFEL Project Workshop - Online

GEO Knowledge Hub team

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We are not alone! Our team thanks everyone who worked with us, especially Gilberto Camara, Douglas Cripe, Gilberto Queiroz, Florian Franziskakis, Hendrik Baeyens, and the InvenioRDM community

Material availability

All the materials used during this workshop are available in the following GitHub repository:

geo-knowledge-hub/geo-knowledge-hub-workshop

Group on Earth Observations (GEO)

GEO is a partnership of more than 110 national governments and in excess of 100 Participating Organizations

GROUP ON EARTH OBSERVATIONS

Group on Earth Observations (GEO)

GEO envisions a future where **decisions** and **actions** for the benefit of humankind are **informed** by coordinated, comprehensive and sustained **Earth observations**

GROUP ON EARTH OBSERVATIONS

Group on Earth Observations (GEO)

GEO Data Sharing principles

GROUP ON EARTH OBSERVATIONS

23rd Programme Board Meeting – 21-22 June 2022 PB-23.12

Revised GEO Data Sharing and Data Management Principles

This document is submitted by the Secretariat to the Programme Board for decision.

1 INTRODUCTION

In 2015, the GEO Data Management Principles Task Force was tasked with defining a common set GEO Data Management Principles[1]. These principles address the need for discovery, accessibility, usability, preservation, and curation of data and related resources that are shared. Such resources also should be shared as open data in accordance with the GEO Data Sharing Principles[2]. The GEO Data Management Principles complement the FAIR Principles and TRUST Principles, which also are being adopted across research communities. The GEO Data Management Principles can be applied to the entire data management lifecycle,

Open Knowledge Statement

GROUP ON EARTH OBSERVATIONS

21st Programme Board Meeting – 28-30 September 2021 PB-21.17

GEO Statement on Open Knowledge

This document is submitted by the Secretariat to the Programme Board for decision.

1 INTRODUCTION

This document presents a revision of the GEO Statement on Open Science (see Annex A) that was presented to the Programme Board at its 19th meeting in January 2021. Based on consultations with the GEO community, the Secretariat proposes that the statement be reformulated to focus on "Open Knowledge". This concept, while inclusive of Open Science, is considered to be more closely aligned with the GEO Mission and Vision, which aim to support decision making and not only or primarily science.

Group on Earth Observations (GEO)

Download the GEO Work Programme 2023-2025 Summary Document, which contains short descriptions of each of the GEO Flagships, Initiatives, Pilot Initiatives and Regional GEOs that comprise the GEO Work Programme.

GROUP ON EARTH OBSERVATIONS

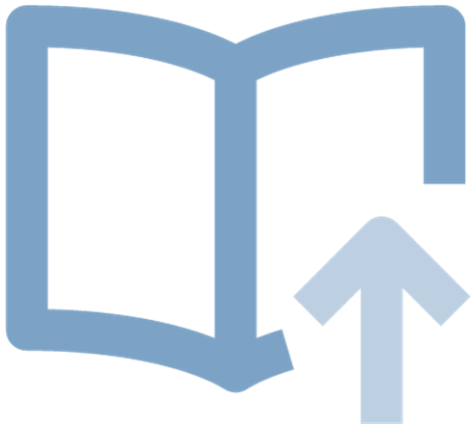
GEO Knowledge Hub

Best practices for creating Knowledge Packages

Clear Documentation

Descriptive Metadata & Data Accessibility

Make publications visible



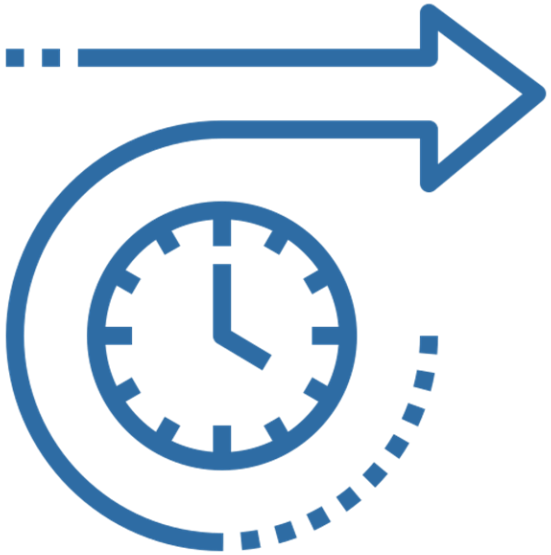
Provide access to training materials

Ensure effortless access to the full range of products

Providing User Stories

Licensing

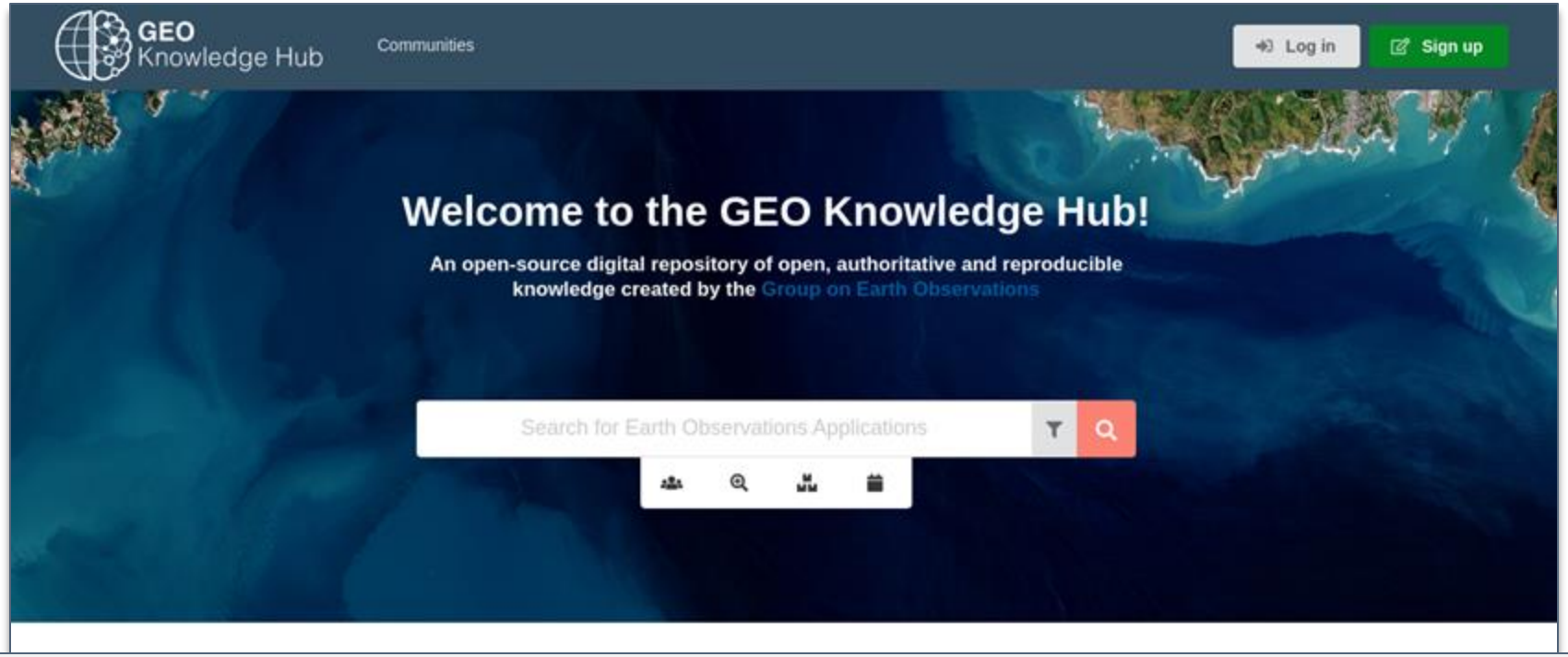
Interact with community



Think in the long-term

Always Up-To-Date

gkhub.earthobservations.org



Practical demonstration

Creating Knowledge Packages

Creating Knowledge Packages

Creating Knowledge Packages

Creating Knowledge Packages

Dataset

Software

Publication

Creating Knowledge Packages

Dataset

Software

Publication

Creating Knowledge Packages

Dataset

Software

Publication

Creating Knowledge Packages

Dataset

Software

Publication

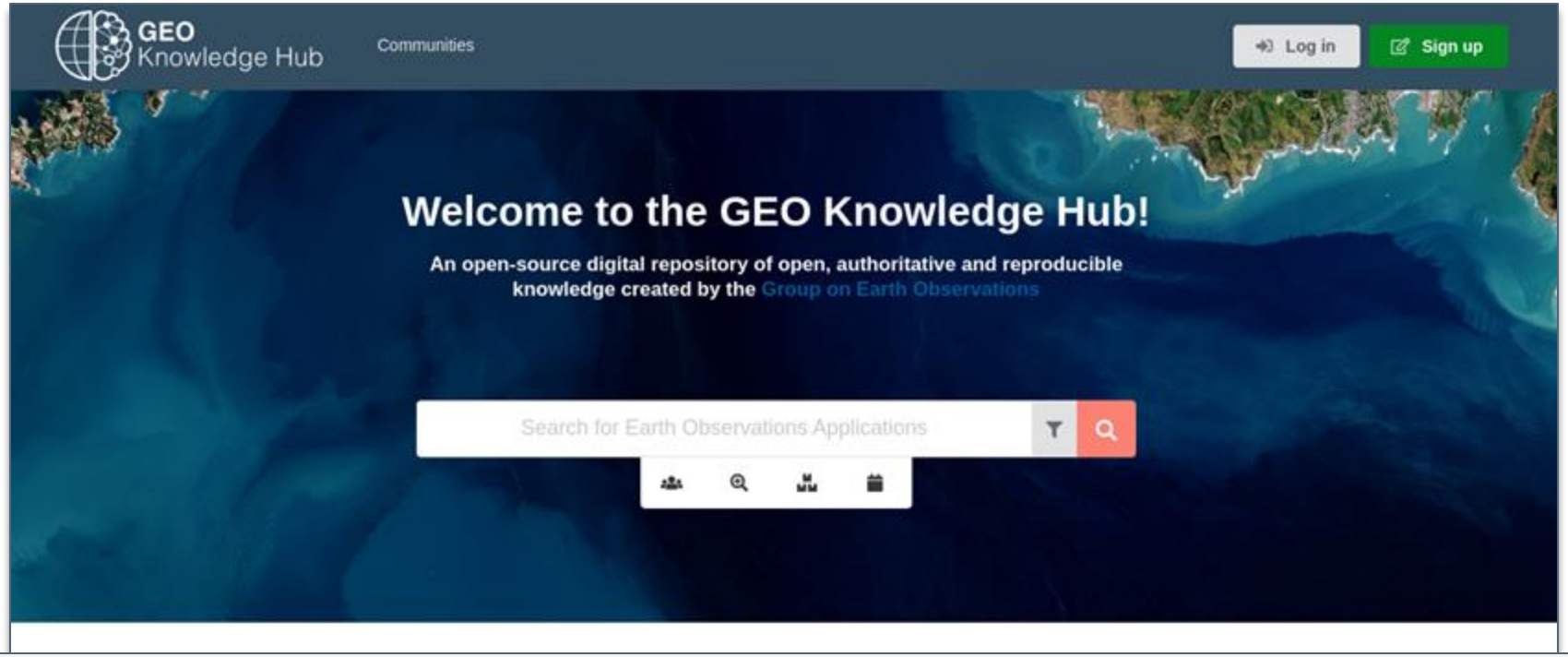
Creating Knowledge Packages

Dataset

Software

Publication

Workshop instance



Practical demonstration

Rest API

Rest API

External systems

Rest API

External systems

Bulk Package Loader

Rest API

External systems

Bulk Package Loader

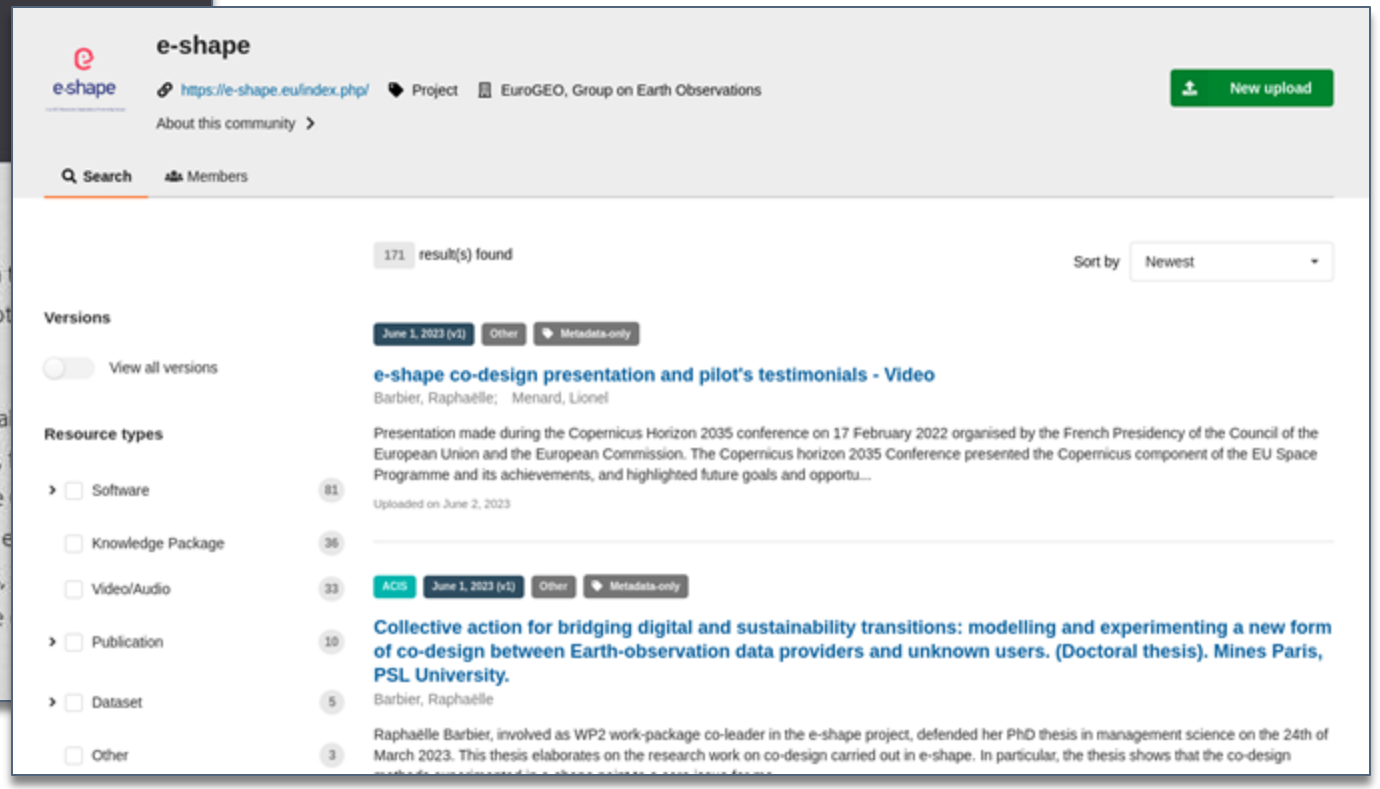
OGC/CSW Package Loader (Harvester)

Using the Rest API

Meet the e-shape legacy through the GEO Knowledge Hub

As a European flagship project contributing to EuroGEO, the e-shape project has linked with t
Knowledge Hub (GKH) to support the promotion and the results dissemination of the 37 pilot
showcases, which have been developed during the project life time.

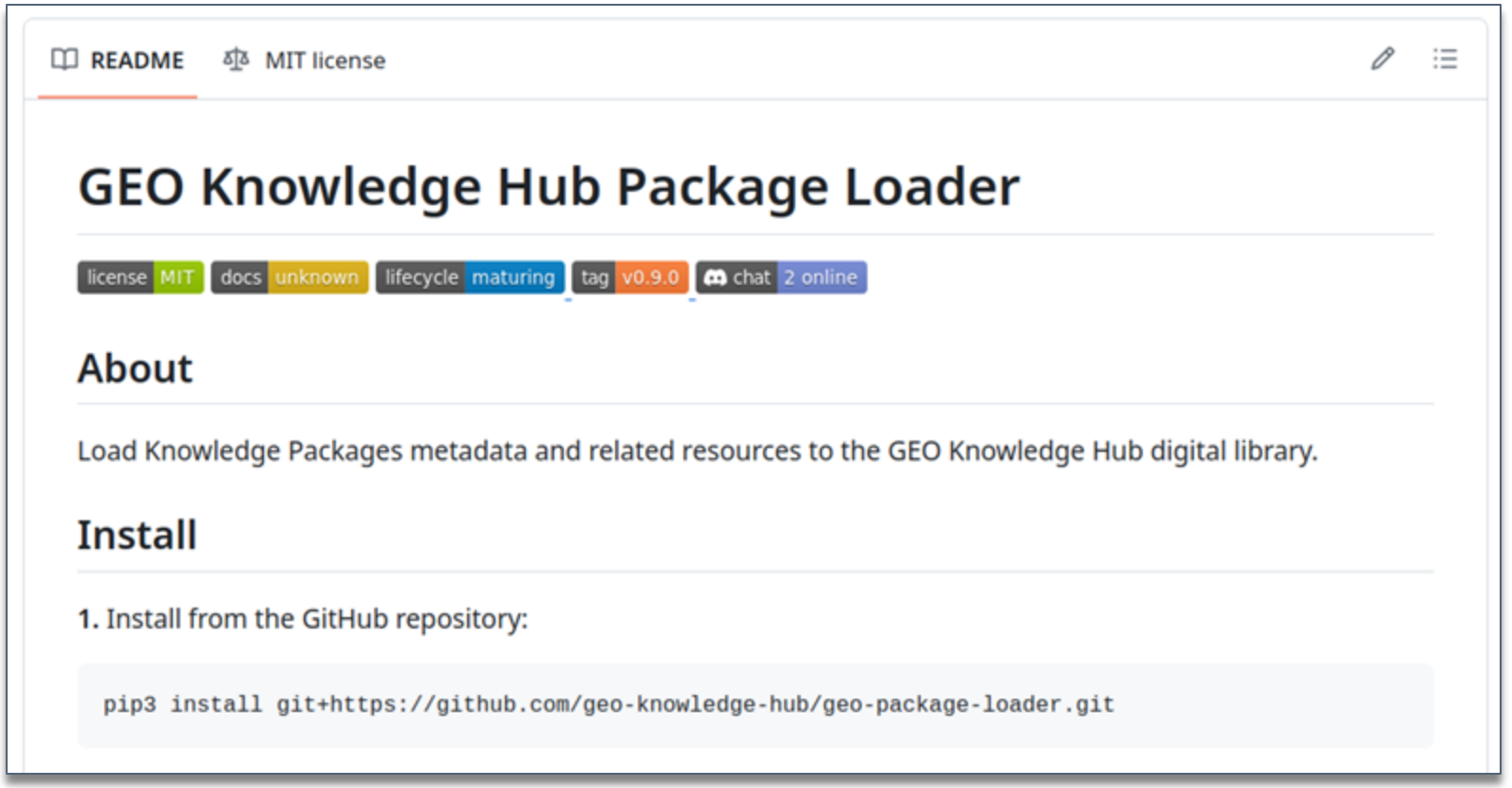
The approach relies on the use of the webservice-energy GEO community catalogue to initia
creation of one metadata record per pilot (https://tinyurl.com/5dk34cks). Metadata records,
19139 and/or INSPIRE Network Service profiles, have been created having the concept of the
granule in mind. It means, beside the access to the given application, to provide a bucket of e
including, scientific communications, DOI, videos support presentations, Jupyter Notebooks,
repositories, OGC Web Services GetCapabilities and output result datasets samples. A prime
enriched metadata record is available here: https://tinyurl.com/3bjd7ymu



tinyurl.com/e-shape-gkh

gkhub.earthobservations.org/communities/e-shape

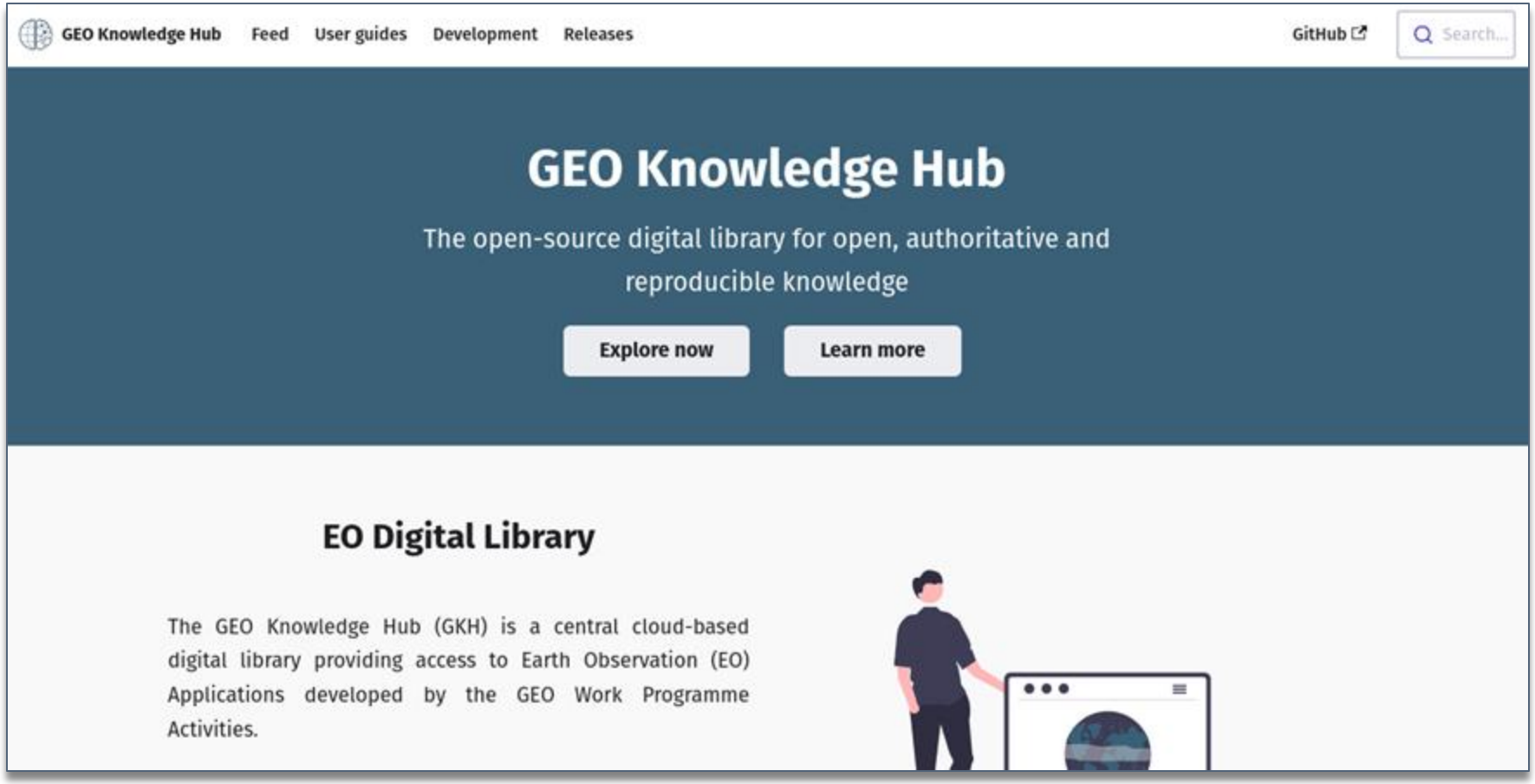
Using the Rest API



github.com/geo-knowledge-hub/geo-package-loader

Documentation

Documentation



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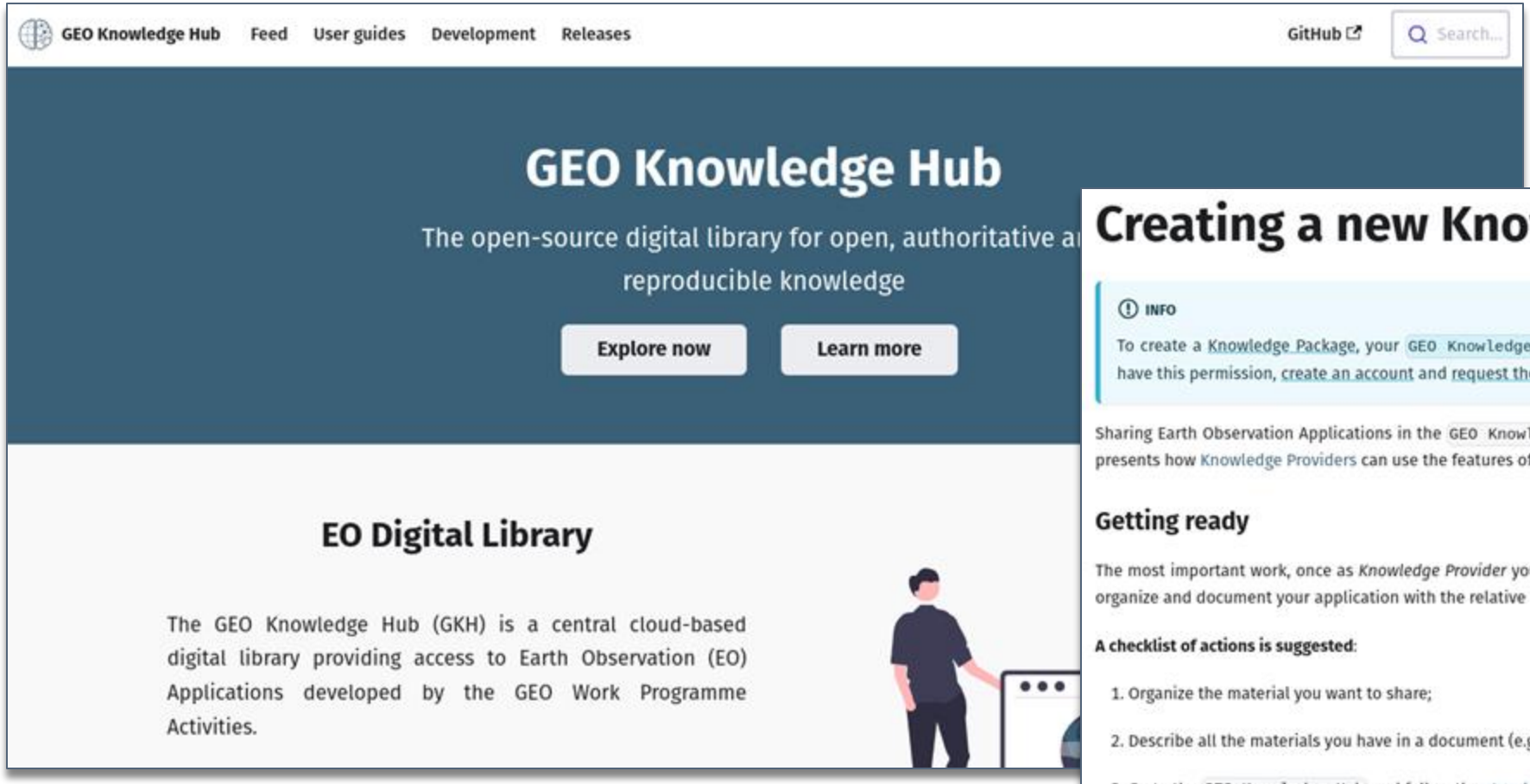
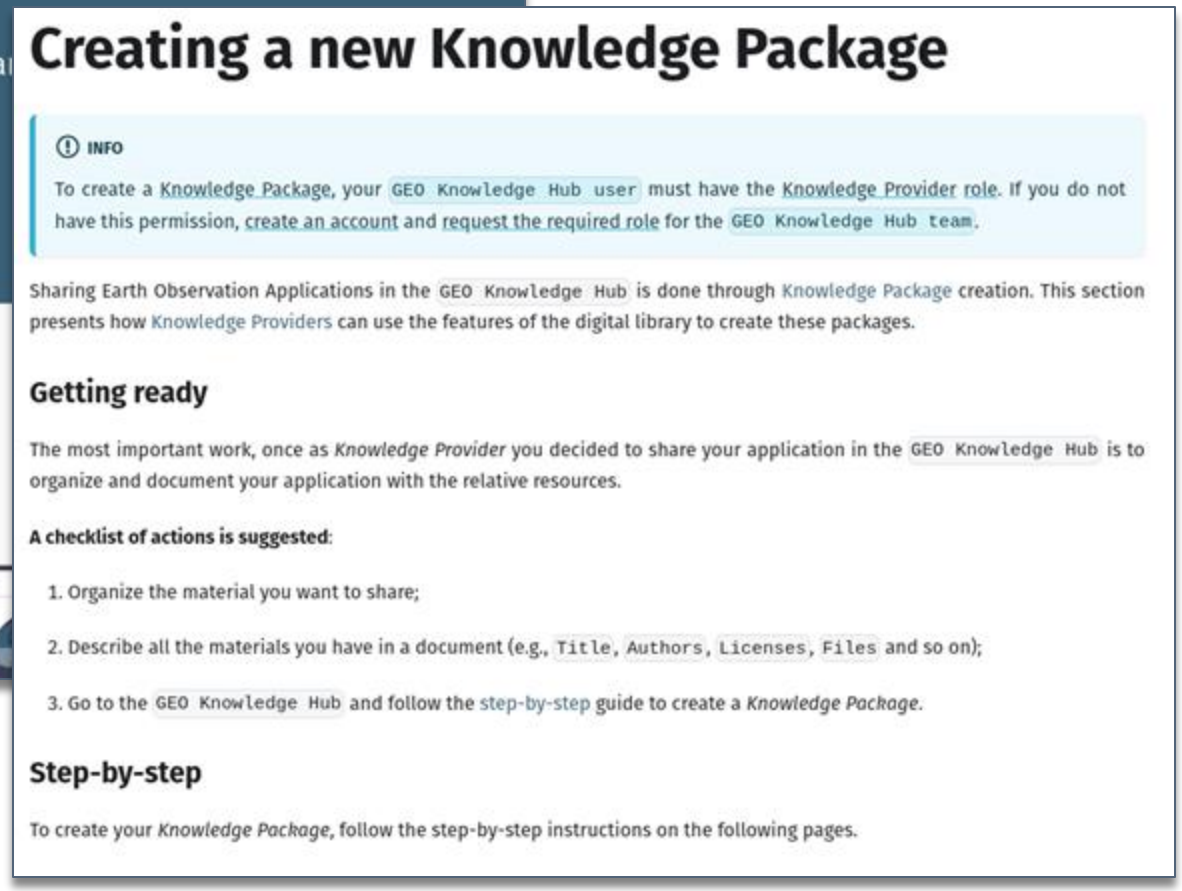
Documentation





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