

## Introduction

Ellip is a set of fully fledged **Platform-as-a-Service** (or PaaS) solutions provided by Terradue to support the Earth Science and Services Communities to exploit Earth observations from satellites directly on the Cloud.

## Overview

Ellip is designed for application developers, data analysts and information product specialists who need to take the best out of large Earth Observation (EO) data collections, as part of compute intensive applications. Interoperability protocols can be embedded in these applications, thanks to the application integration frameworks delivered to the Ellip developers through the PaaS. Overall, Ellip provides you with a set of Cloud Computing solutions to integrate, test, validate, package, deploy and monitor EO data processing applications.

The Ellip offerings are divided in 4 products:

1. Support to Algorithm Integration
2. Operational Algorithm Hosting
3. Interactive Development Environment
4. Community Data Hosting for Exploitation
5. User Support Services



## Interactive Development Environment

The **Interactive Development Environment** pack provides a secure environment in the Cloud for expert users to prototype and develop Earth Observation applications. The environment is powered by JupyterHub on top of a Kubernetes cluster supported by a distributed storage service.

This pack is targeted for thematic experts that want an environment to interactively develop applications, orchestrate existing deployed services together using ad-hoc software tools and libraries (e.g. SNAP, Orfeo Toolbox, GDAL), or perform data visualisation and analysis tasks. Data access mechanisms to Earth Observation data products from Copernicus Sentinel-1/2/3, Landsat 8 or user-provided datasets are also available from that environment. Other missions (e.g. SPOT, Pléiades) are available on a case by case depending on the agreements with the data providers.

The support provided in this offering includes application templates, thematic examples, documentation and focuses on helping developers to integrate data discovery, access, processing and publishing services directly on their application code. The applications developed can be packaged and made ready for deployment in an Ellip-powered production Cloud, exposed through a Web Service endpoint, Web Processing Service (OGC WPS).

Interactive Development Service				
Scenario	Billing model	Pack name	What we offer	What it costs
interactive development	monthly subscription	<b>Interactive Development Environment</b>	1 Jupyter Notebook 1TB Persistent Storage (*) Access to free EO data collections available in Ellip (**) Support Plus	<b>€2750</b> <b>Monthly fee</b>

(\*) Additional storage available in pay-per-use at €35 TB/month

(\*\*) Optionally users can bring their own data products with additional cost of €40 TB/month for storage and catalogue