

FPCUP Appathon: Copernicus Innovative Solutions

Technical Details and Support

CreoDIAS Platform:

CreoDIAS is a powerful Earth observation data platform designed to provide easy and efficient access to a wealth of satellite data, including data from the Sentinel missions. As a participant in our hackathon, you'll have exclusive access to the CreoDIAS platform, offering the following benefits:

- **Direct Access to Satellite Data.** CreoDIAS provides direct access to a wide range of satellite data sources, including data from the Sentinel satellites operated by the European Space Agency (ESA). This data is crucial for earth observation and remote sensing applications.
- **Dedicated Virtual Machines (VMs).** You'll have access to dedicated virtual machines on the CreoDIAS platform. These VMs are pre-configured to support geospatial data processing and analysis, making it easier for you to work on your projects.
- **Data Processing Resources.** CreoDIAS offers powerful data processing capabilities, allowing you to efficiently process and analyze large volumes of geospatial data. Whether you're working with imagery, meteorological data, or other geospatial datasets, CreoDIAS has the infrastructure to support your needs.

Hackathon Support by NOA:

In addition to the CreoDIAS platform, we provide comprehensive support to ensure your success in the hackathon:

- **Geospatial Libraries and Scripts.** We offer a collection of scripts and resources on our GitHub repository, leveraging well-known geospatial libraries such as GDAL, rasterio, xarray, and others. These scripts will assist you in pre-processing and post-processing geospatial data, saving you valuable time and effort.
- **Technical Assistance.** Throughout the hackathon, our team of experts, including Machine Learning and Data Science specialists, will be available to assist you with technical challenges related to geospatial data processing, machine learning modeling, and data analysis. We can provide guidance on selecting appropriate algorithms, optimizing model performance, and interpreting results.
- **Data Insights.** We can provide insights and guidance on the specific Sentinel and meteorological datasets available on CreoDIAS, helping you make informed decisions about the data you use for your projects.
- **Networking Opportunities.** The hackathon is an excellent opportunity to connect with fellow participants, mentors, and experts in the field of earth observation and remote sensing. Collaborate, share ideas, and build a network of like-minded individuals passionate about making a positive impact on our planet.

By participating in our hackathon and utilizing the resources and support offered by CreoDIAS, you'll have everything you need to develop innovative earth observation and remote sensing applications that can contribute to a better understanding of our world and its environment. We look forward to seeing the creative solutions you come up with!