SnapEarth Project Press Release No: 2

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Subject/Title: **SnapEarth: A new standard to foster the Market growth of COPERNICUS by instigating the development of new EO applications and to develop general public awareness to EO data.**

SnapEarth (*Fostering Earth Observation market uptake thanks to natural and holistic access to added value data generated through cutting-edge Artificial Intelligence technologies*) is the European project supported by the European Commission under the Innovation Action Theme of the HORIZON2020 Programme for Research and Innovation with funding of € 1 995 030.76 (total budget is € 2 688 172.50).

The SnapEarth project is slowly coming to an end. At the end of November 2022, the consortium plans to complete all the tasks related to the project. After more than 2.5 years of activity, the partners organized more than 15 events for users where over 300 requirements were collected, which allowed each of the consortium leaders to create the final versions of their services and make them the most valuable and attractive for the future customers.

We want to further promote our project among all interested parties, therefore **22 September 2022** we invite everyone to the **International Development Workshop & Hackathon**, where we will present the possibilities of our solutions. During the Hackathon, a session will be dedicated for discussion with the participants, who will be able to comment on their needs and provide suggestions on how to use SnapEarth solutions. For more information, visit the event's website: https://snapearth.eu/idwh2.

We are currently in the 32nd month of the project, and all services are ready or at the final stage of completion. At the moment, we have managed to connect most of the services with the **EarthSignature** platform, which will create one integrated system. The full integration of all SnapEarth components is planned to be completed over the next few weeks. At the final stage of the work, the following components will be combined:

EarthSelf service, thanks to which you will be able to create your own solutions. **EarthSelf** can deploy Cloud-ready environments in any Cloud Provider's infrastructure, without showing the technical complexity to the user. It enables any business or user to take advantage of highly scalable cloud environments for analysis, visualization and production of Earth observation value-added services. Which means that the service will allow users to create their own solutions using **EarthSignature** databases and combine them with their own data and other earth observation data. **EarthSelf** offers a set of tools, such as: a dedicated web portal for hardware resource reservation, a cloud providers comparison service, and a helpdesk and support service.

EarthSearch portal is an innovative service aimed at making satellite imagery accessible to a broader audience. It aim to make these images available via the Qwant search engine when a remote sensing query is detected. When you search for a remote sensing query in the search engine, one or more immediate answers will be displayed. Instant Replies will display information about the Sentinel-2 images and a link to the original images.

EarthPress is a web-based platform that aims to provide services to **editors and journalists,** allowing them to enrich the content of their publications and articles with EO data, by offering an almost ready to be published article. It focuses in **disasters' reporting** (i.e. floods, wildfires, explosions) and provides a report with the before/after depiction of a disaster, accompanied by rough statistics and EO images of the impacted area, along with data collected from citizens journalism posted on social networks. Additionally, following

the last geopolitical developments that are currently taking place in Europe and the human induced distractions caused by war, the **EarthPress** platform was extended to spot not only natural disasters, but also explosions and bombing attacks, by updating the model for recognizing and collecting multimedia data for such events.

EarthClimate pilot support climate monitoring activities: air quality and carbon dioxide emissions monitoring and urban heat islands monitoring. **EarthClimate** services will be combined with other Copernicus data and local data coming from sensors and monitoring programs. Pilot is dedicated to recipient groups related to: decision-makers (like cities, regional, national administration, road administration), health organisation, climate organisations, climate research institutions, citizens.

EarthFoodSecurity pilot addresses drought at its very earliest stages and it is thus based on soil moisture which is a key indicator for soil water availability. It will include historical and current data in the area of interest, and a forecast report to predict future changes in the area of interest.

EarthAgriculture pilot will improve the performance and accuracy of existing Sen2-Agri processing chains by taking advantage of the services offered by SnapEarth. It will propose to agricultural users a set of value-added services to support agricultural monitoring activities, such as vegetation indicator maps and crop maps. Regular reports and statistics on user-defined areas of interest will also be an added value.

All these services will allow you to extract new value through large-scale Earth observation data services and anticipate future priorities through the use of artificial intelligence and cloud computing technologies and tools.

Links: Visit the SnapEarth Project website at: https://snapearth.eu/

For more information, contact:

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