

# Copernicus – Product Access Tool

Copernicus Final Users Workshop Brussels, January 12, 2017



# Agenda



1 Context

2 Description of the tool

Next Steps

### Context





# **Context**

Copernicus is expected to provide important strategic, social, economic and environmental benefits

Copernicus objectives and needs to European public authorities & the civil society. DG GROW aims at fostering the development of added value downstream services tailored to the needs of specific users, & of new business models based on space-application technologies. An easier access to Copernicus data & information is essential for the successful user uptake of Copernicus products, which complexity stems from diversity and heterogeneity of

end-users

strategic objectives

Provide a

comprehensive list of products and applications promoting the full, free and open Copernicus data policy, and educate users on the offer.

**#2** Develop a **user interface** 

and data management tools, such as queries, data extraction and data manipulation, to allow a user-friendly, consistent and secure management of the data.

#1 Make Copernicus data & information services easily accessible for existing/potential users and the research communities & establishing new business models.

#2 Raise awareness about the possible use of Copernicus products and services.

#3 □Encourage a cross-domain approach and limit the work in silo.

#3 Inform users about the available database and the linked information services. about the successes achieved by the Copernicus programme and its services, and to foster the beginning of a "Copernicus Economy" in the form of innovative value-added services and products.

No S	Super-Cat	talogue
------	-----------	---------

 Considering the density, complexity and volatility of Copernicus products and services, as well as taxonomy heterogeneity existing between Copernicus domains, the EC agreed that no super-catalogue would be established.

### Interoperability and OGC Compliance

Each Copernicus domain websites works according to its own configuration and settings which can generate
interoperability issues. In this regard, the EC agreed to define OGC compliance as a reference for the tool to
be delivered.

#### Security Constraints

The security domain must be treated separately due to security limitations and confidentiality

#### **Users Community**

• At this stage, communication with Users Community goes through National Contact Point. Mid-term and longterm objectives consist in creating a wide-spread Copernicus community integrating all categories of users including private companies, NGO, public authorities, Member States ...

Support INSPIRE regulation to facilitate data access









Organization of several calls with the Entrusted Entities\*:

- Frontex
- EMSA
- JRC
- Mercator
- ECMWF

Validation of the reshaped approach by the EC:

 Participation of the Copernicus final users for the presentation of the pilot

\*the call with EAC was reported due to a change in the approach

Validation of the revised format of the deliverables, integrating Entrusted Entitites feedbacks, with the EC.

Consultation with Copernicus Domains policy officers (Land, Marine, Climate Change, Security, Atmosphere, Emergency):

- Validation of the tool model and options application to each domain
- Definition of the data collection process

Presentation of the pilot to the Copernicus community, Copernicus programme officers, EE, MS, current and potential users:

- Presentation of the access modes
- Review of the support functionalities
- Demonstration of the pilot
- Discussion and integration of the Copernicus community feedbacks

Presentation on April, 17 and Users Forum April, 24.





#### Analytics

The Product Access tool provides various types of analytics and statistics including nature of users queries (number/domain), number of connections, number of accounts created, etc.



#### Print-out

The tool offers a print-out option, allowing for instance the print of a comprehensive list of products from the alphabetical index webpage.



#### Database

Thanks to the subscribing option, the tool offers a users database with specific requests and connection details per user.



#### Training

The Copernicus homepage displays a User Guide functionality allowing the training of both external users and Copernicus members.



#### Dynamic Interface

The product access tool consists in a dynamic interface between the Copernicus website and Copernicus domains websites, automatically updated.



#### Search by theme

Current users can have direct access to Copernicus domains websites where associated Products and services are displayed.



#### Alphabetical Index

The Product Access tool allows a search option based on an alphabetical index gathering all available Copernicus products and services.



#### Top-Down Communication

The tool offers the possibility to launch mails campaign and notifications to registered users, informing them on news of the Copernicus programme.



#### Search by name or keyword

The search by name or keyword allows unfamiliar users to be directed to all the related Copernicus products and services, based on their name and associated key words displayed on Copernicus domains websites.



#### Feedback

The product access tool allows the user to provide feedback and remarks through a user-friendly portal.

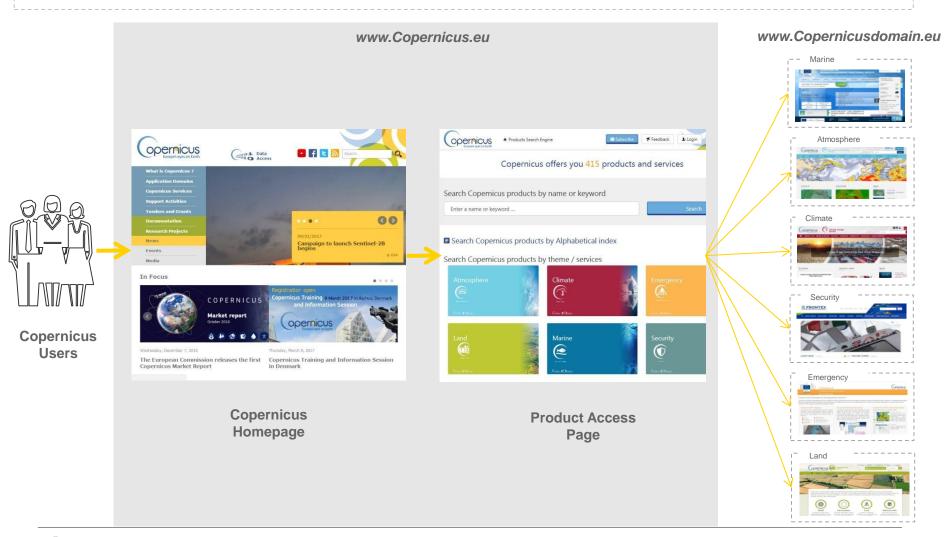
# Description of the Tool



Description of the Tool

## Description of the tool – A Navigator Approach

The tool operates like a navigator between the Copernicus website and Copernicus domains websites





## **Description of the tool** – *Main Features*

### **Copernicus Products Access**

The tool provides 3 Copernicus access modes according to the user's level of maturity regarding Copernicus products:



Search by name or keyword, adapted to unfamiliar users

Search by alphabetical index, adapted to intermediate users



Search by themes/services adapted to experimented users



### **Support Functionalities**

The tool provides 4 support functionalities to facilitate the Copernicus website management:



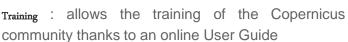
Communication/Marketing: allows a top-down communication & the information of the Copernicus community on Copernicus news & activity



Feedback: allows a bottom-up communication based on users feedbacks and requests



Reporting: allows generating customized dashboards integrating statistics on users activity and searches



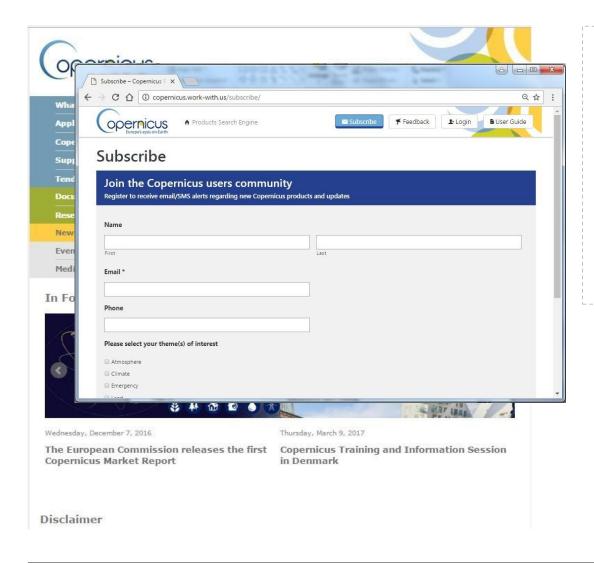


### **Copernicus Product Access**

www.copernicus.eu



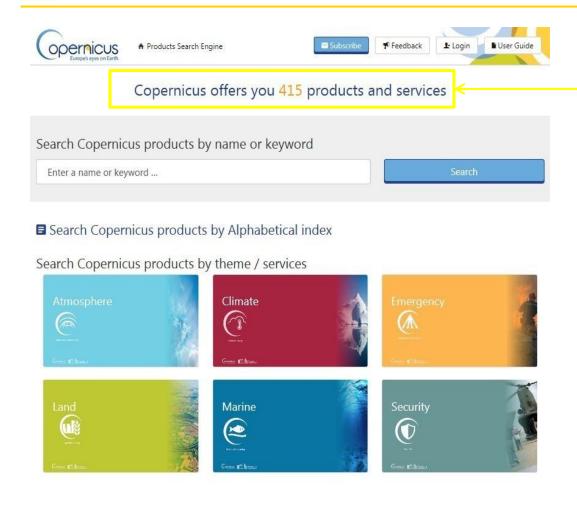
## Description of the tool – Subscribe or Login



When clicking on the "Product Access" page, the user will be asked either to login with its Copernicus Personal Account or subscribe to be registered as a member of the Copernicus users community and receive Copernicus news and updates.

When subscribing, the user can select specific theme(s)/services of interest as well as notifications modes: email and/or sms.

## Description of the tool – Product Access Page



From the "Product Access Page", the user can easily have access to the full list of Copernicus products by clicking on the following insert:

### Copernicus offers you 415 products and services

This provides a direct access to the Alphabetical Index page, where the comprehensive list of Copernicus products is displayed under the ALL item with user-friendly downloading and printing options available.

Print Download

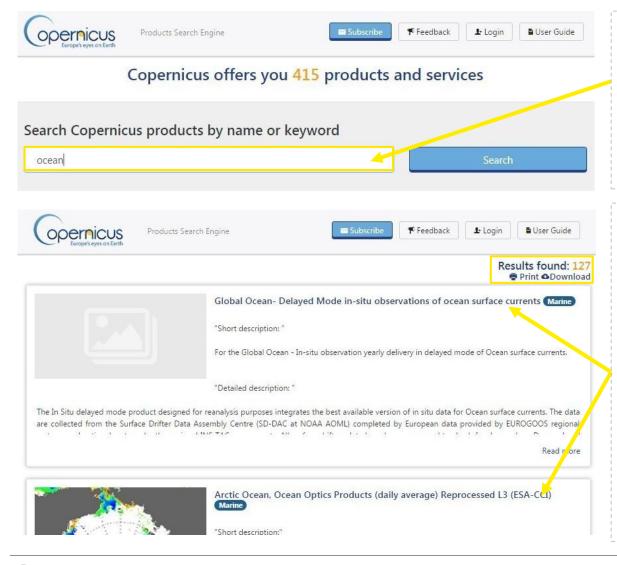


#### Alphabetical Index





## **Description of the tool** – Search by name or keyword



On the "Product Access" homepage:

Type a word/series of words related to your request.

### On the "Results Found" page:

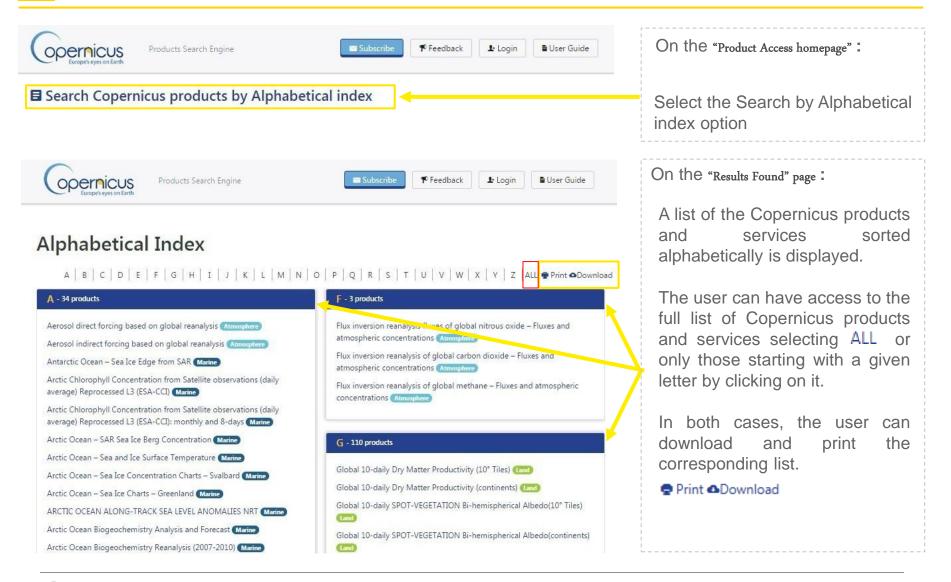
A list of the Copernicus products and services containing the word/series of words entered in their name or defined keywords in their description on the Copernicus domain website is displayed. The corresponding domain follows the name of the product.

Such easily list can downloaded or printed

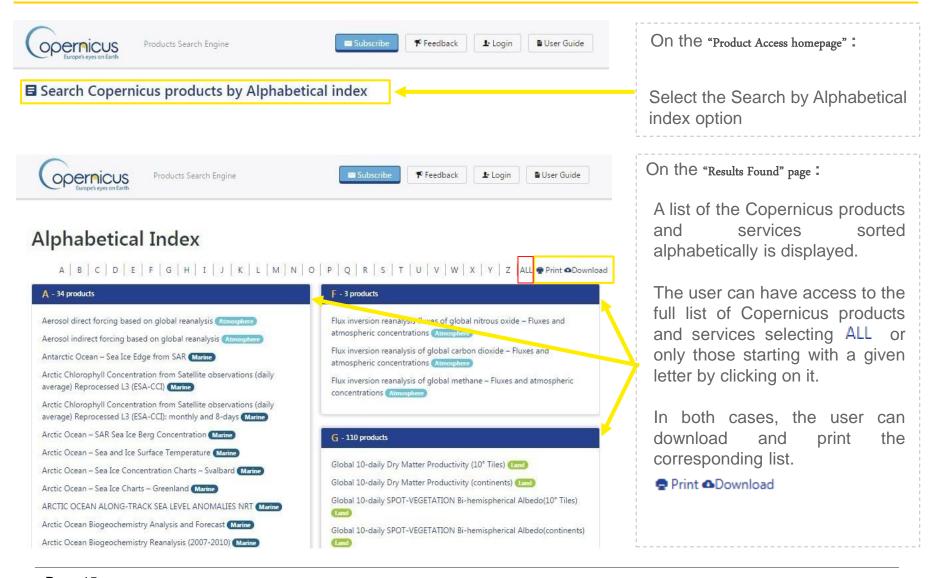




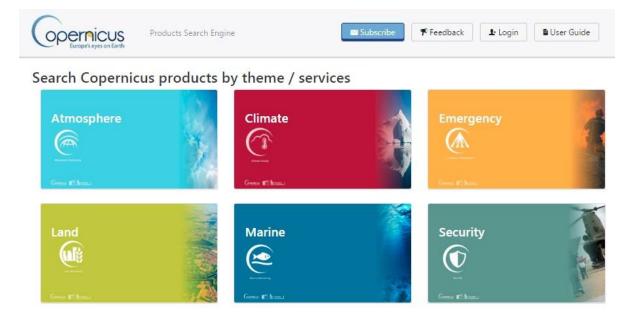
## **Description of the tool** – Search by alphabetical index



## **Description of the tool** – Search by alphabetical index



## Description of the tool – Search by Themes/services



On the "Product Access homepage":

Select the Theme/Services to be directed to the corresponding Copernicus domain websites



#### Communication / Marketing:

- This functionality will allow a timely dissemination of Copernicus news and updates through a panel of communication tools including:
  - Emailing (on a regular or punctual basis)
  - ✓ SMS Alerts
  - Notifications on the Product Access Page
  - ✓ Smartphone application
- It will enable a top-down communication from the Copernicus officers and Entrusted Entities to targeted Copernicus users, according to their specific interest and needs

## **Description of the tool** – Support functionalities (2/4)

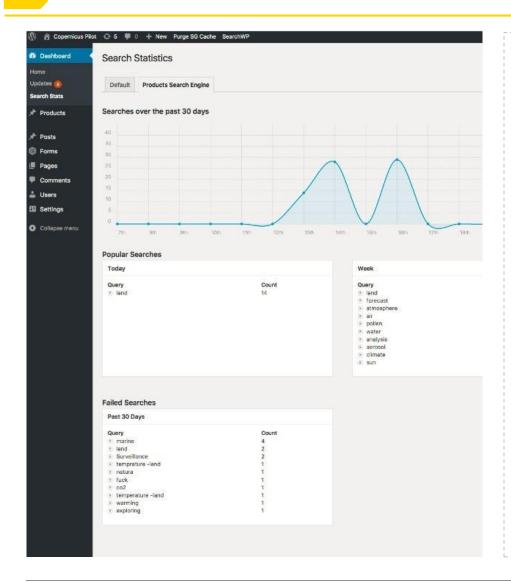


#### Feedback:

- This functionality will allow users to share their feedback, query or request for clarification on Copernicus products and activity thanks to a user-friendly form available from the "Product Access" homepage
- This functionality will allow a bottom-up communication from the Copernicus users community to Copernicus officers and Entrusted Entities
- Such support will be ensured through the Copernicus Support Office

### Best practices and Lessons learnt:

Feedback and analytics functionalities will provide a solid basis for best practices analysis and lessons learnt to be mutualized in other domains.



#### Reporting:

- This functionality will allow designing customized dashboards for reporting purposes, based on the key indicators and the reporting frequency defined by the Commission.
- Such indicators may comprise :
  - Number of searches per theme/services
  - Number of new accounts created
  - Number of active users
  - ✓ Number of failed searches per theme
- Such analytics will provide (by push or pull) the Commission and Entrusted Entities a clear view of Copernicus website traffic as well as users' expectations, in both quantitative and qualitative aspects.



♠ Products Search Engine



### **Product Search Results for: delta**

delta

Sorry, but nothing matched your search terms. Please try again with some different keywords.

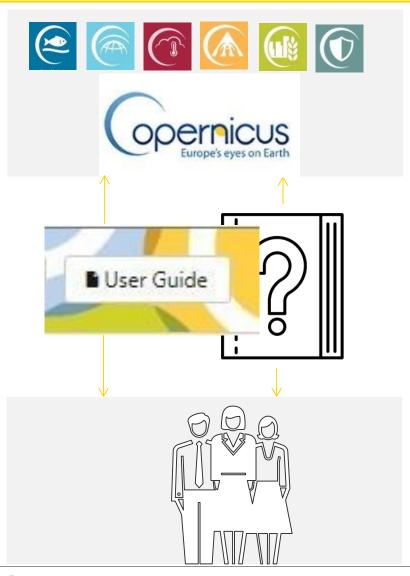
### Unsatisfied requests:

- Unsatisfied requests can stem from :
  - x Inappropriate queries (example : bed)
  - x No corresponding product
  - x Missing words in the product description, preventing the navigator to establish a link
- Thanks to the statistics module, the Commission and Entrusted Entities will be able to quantify and qualify the "unsatisfied requests" and accordingly define further actions.

#### Best practices and Lessons learnt:

Feedback and analytics functionalities will provide a solid basis for best practices analysis and lessons learnt to be mutualized in other domains.





### Training:

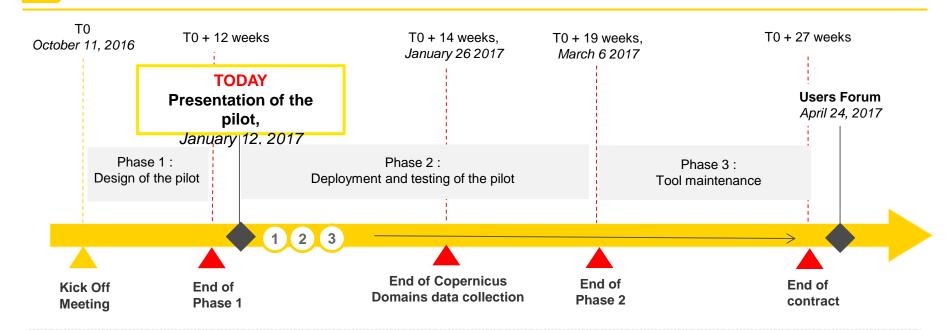
 The Product Access homepage will offer access to an online User Guide providing easy learning to both Copernicus internal community and external users

# Next Steps



3 Next Steps

## Next Steps (1/2)



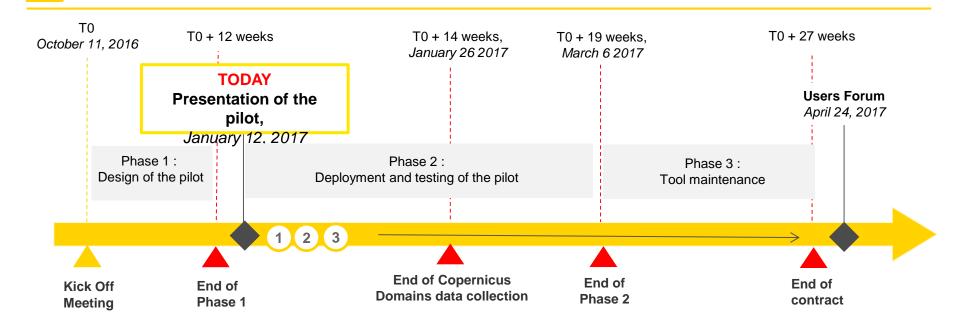
#### 1 / Application to all the Copernicus Domains

The pilot tool demonstration is based on data collected from Land, Marine and Atmosphere Copernicus domains. During the 2<sup>nd</sup> phase, the tool will have to be populated with remaining Copernicus domains data and completed with other domains Security, Emergency and Climate Change data.

### $\mathbf{2}$ / Integration, activation and testing of the full set of functionalities

The Phase 2 and Phase 3 will allow implementing and fine tuning the full set of functionalities, fixing bugs and potential inconsistencies detected as well as integrating Copernicus community feedbacks and remarks. During this period, the Commission and Entrusted Entities will have access to the tool and will be able to provide feedbacks, comments or suggestions to be included in the final version of the tool.

## Next Steps (2/2)



- 3 / Review and adjustment of Copernicus Products and Services description for optimal results from the "Search by name or keyword" search option
- The "Search by name or keyword" outputs result from the correct matching between the words composing a user request and the words appearing in a product (i) name (ii) description (iii) associated keywords.
- To enrich and optimize the searching results, Entrusted Entities can complete and feed their Copernicus products description. Each added word will automatically be linked with the Product Access tool.

