

# Collaborative Ground Segments reporting Interface for the Sentinels Data Dashboard



**Collaborative Ground Segment Workshop**  
*ESRIN, 4-5 December 2018*



**serco**



## The Sentinel Data Dashboard

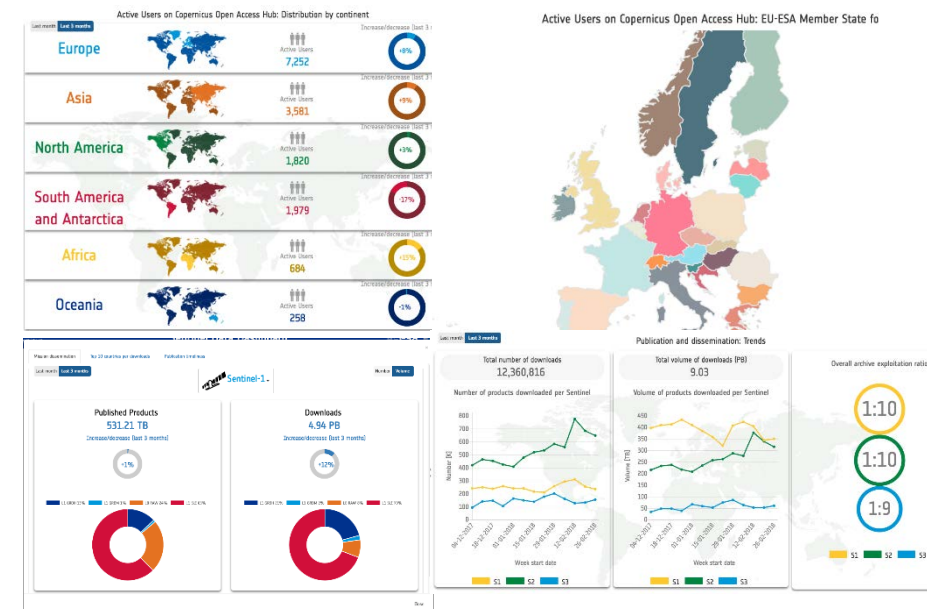
The Sentinel Data Dashboard presents summary statistics for tracking the uptake of Copernicus Sentinel data from ESA's Data Access System, and for reporting on the overall performance of the system itself.

All of the statistics are updated on a daily basis, with the exception of the numbers on the Main Facts and Dissemination statistics pages, which are updated on an hourly basis.

The Dashboard is a web app which has been developed to provide transparent reporting on operations.

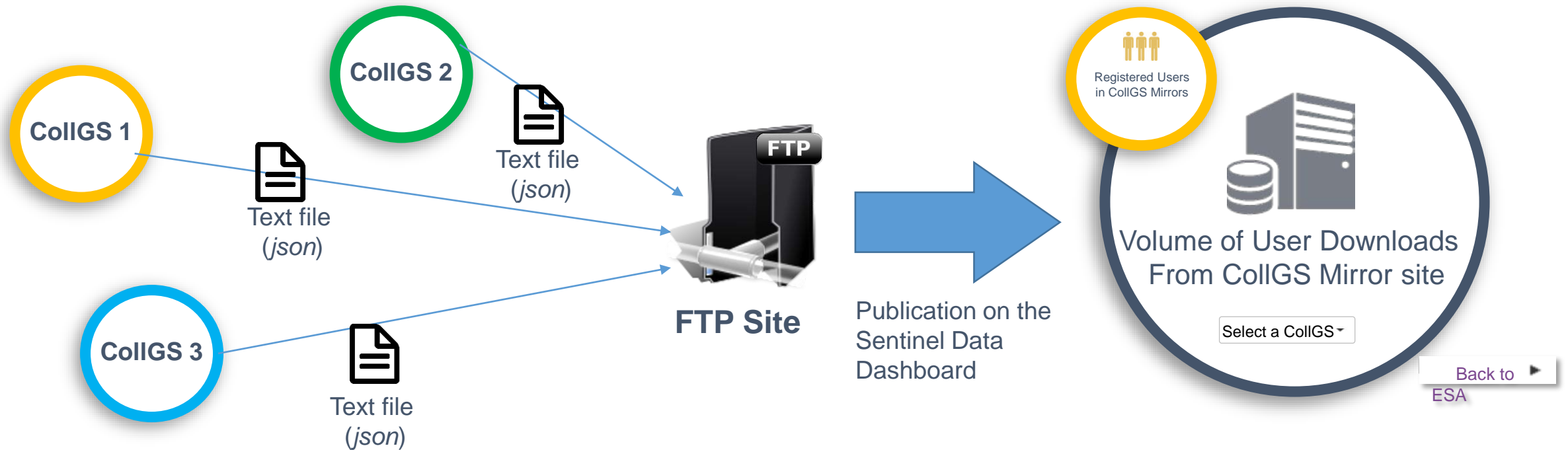
<https://dashboard.copernicus.eu>

## Sentinel Data Dashboard



## Collaborative GS - Sentinel Data Dashboard Interface Control Document

The purpose of the ICD is to define the interfaces and data flows to allow to include statistical information of the Collaborative Ground Segments Sites into the Sentinel Data Dashboard.



The collaborative GS periodically sends to an FTPS server some text files (*json format*) including the statistical information. The Sentinel Data Dashboard includes such statistical information in the online interface accessible to end users via http.

## Collaborative GS - Sentinel Data Dashboard Interface Control Document

### Reporting frequency and time range



**Frequency:** The CollGS should report the statistical information (as specified in the physical interface definition – see section 3) with a daily frequency within 12 hours after the end of the last day included in the reporting period, for inclusion in the dashboard update for the following day.



**Time range:** All the statistics reported should include information up to the 23:59:59 UTC time of the last day before the generation day (date in which the statistics are extracted and sent to the Sentinel data Dashboard server). In case of missing reception of a set of statistics, the Dashboard will display graphs and statistics extracted by the last provided report.

## Collaborative GS - Sentinel Data Dashboard Interface Control Document

### File format specification

The file *collaborative\_XX\_sentinel\_data\_yyyymmdd.json* is split into sections (~one per each of the Dashboard page) and subsections. A template of the structure of the file is provided as an annex of the ICD.

In each subsection, a description of the statistics represented and of the content of the corresponding json file section are provided, based on the following schema:

- **Parameters:** name of the json attributes associated to the keys and the values required.
- **Period:** it refers to the time period considered for the extraction of data; it could be: since start of operations<sup>1</sup>, the last three months (as 91 days) or the last month (as 30 days).
- **Mission:** it refers to the Sentinel mission for which the statistics are referring (e.g. Sentinel-1, Sentinel-2, Sentinel-3); it could be: cumulative (no mission specified) or single missions considered. Default case: cumulative.
- **Granularity:** time partition for grouping the data; it could be daily, weekly, monthly or cumulative (e.g. no partition). Default case: cumulative.
- **Grouping:** data could be grouped by one or more of these further product features: product type, continent, country. Default case: no grouping
- **Splits:** single mission could be split in its different instruments (e.g for Sentinel-3, the instruments are Optical and Topography). Default case: no splits.

## Collaborative GS - Sentinel Data Dashboard Interface Control Document

### A page example: Main Facts

Total volume of the end users products downloads and total number of users registered since start of the operations.

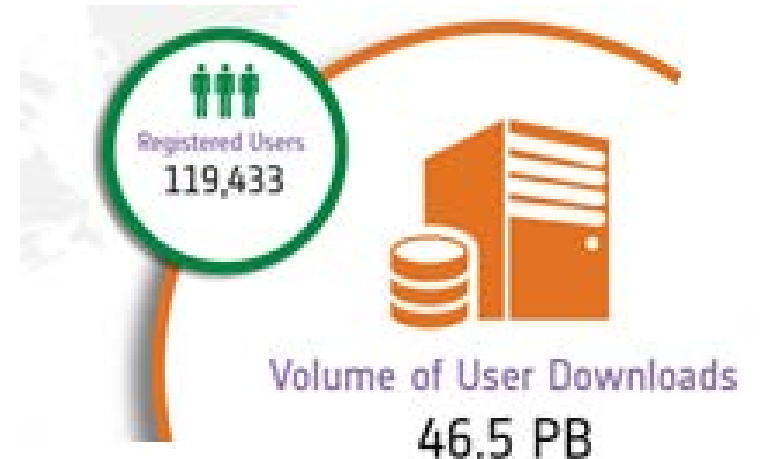
- Parameters - volume\_of\_user\_downloads, number\_of\_registered\_users
- Period – since start of the operations

### FORMAT

- **volume\_of\_user\_downloads** – integer, which represents the volume in Byte
- **number\_of\_registered\_users** – integer

### EXCERPT from the json file

```
{  
  volume_of_user_downloads: 52350045951843160,  
  number_of_registered_users: 119433  
}
```



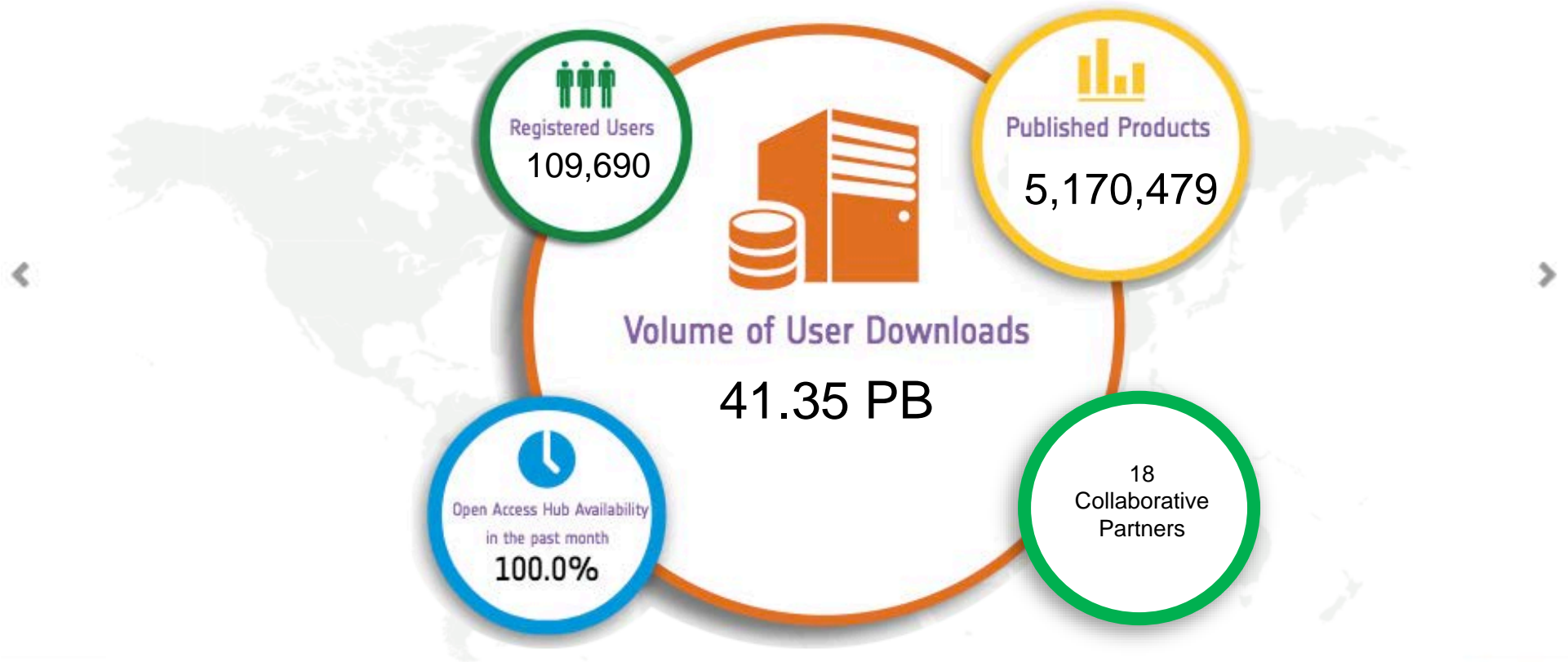
## **Collaborative GS - Sentinel Data Dashboard Interface Control Document**

### *Reference documents:*

**RD[1]:** *COPE-SERCO-TN-18-0212\_Generic Reporting Interface Control Document- Collaborative GS - Sentinel Data Dashboard\_v1.1.pdf*

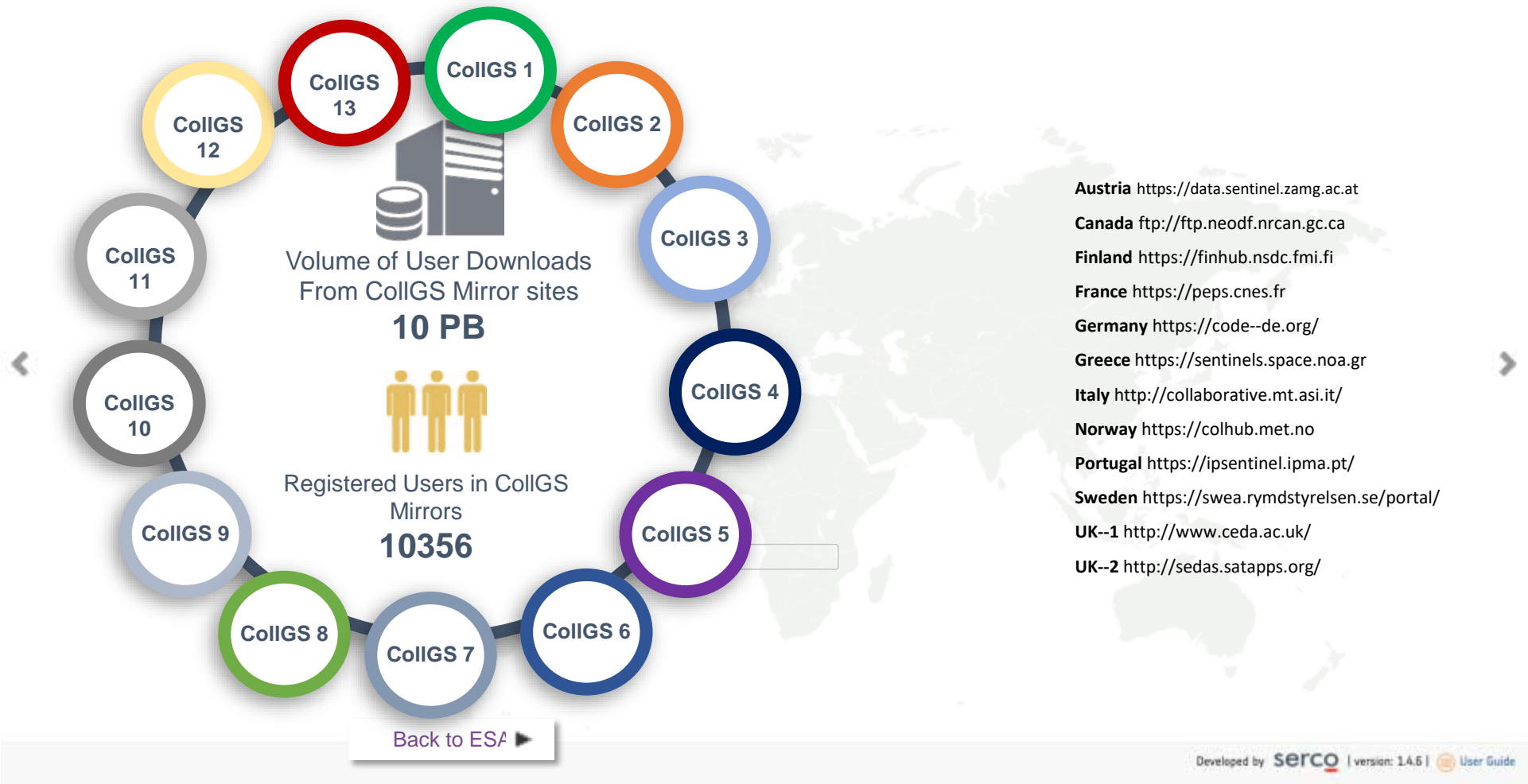
**RD[2]:** *COPE-SERCO-TN-18-0211\_Generic Reporting Interface Control Document- Collaborative GS - Sentinel Data Dashboard\_v1.0\_AnnexB\_.xlsx*

**RD[3]:** *COPE-SERCO-TN-18-0211\_Generic Reporting Interface Control Document- Collaborative GS - Sentinel Data Dashboard\_v1.0\_AnnexA\_.json*



Clicking on the “18 collGS” flag, the following page is displayed





Clicking on the “Back to ESA” flag, the previous page is displayed

## Collaborative Partners: Active User Focus



Select a country ▾

## Collaborative Partners: Active User Focus



User Uptake    Users per Mission

Last month    Last 3 months

Finland

CollIGS LOGO  
Access Point URL: http://...

country

Registered users in Copernicus Open Access Hub  
Registered users in CollIGS National Mirror site

777

Increase (Last month)

+2%

Active users in Copernicus Open Access Hub  
Active users in CollIGS National Mirror site

41

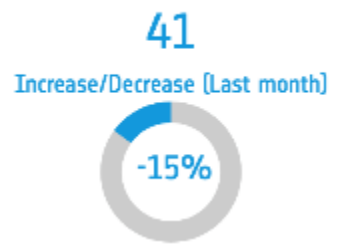
Increase/Decrease (Last month)

-15%

Registered users in Copernicus Open Access Hub  
Registered users in CollIGS National Mirror site



Active users in Copernicus Open Access Hub  
Active users in CollIGS National Mirror site



## Active Users on Copernicus Open Access Hub: EU-ESA Member State focus



User Uptake    Users per Mission

Last month    Last 3 months

Finland -    country ▾

Sentinel-1

Active users in ColIGS National Mirror site

777

Increase (Last month)

+2%

Sentinel-2

Active users in ColIGS National Mirror site

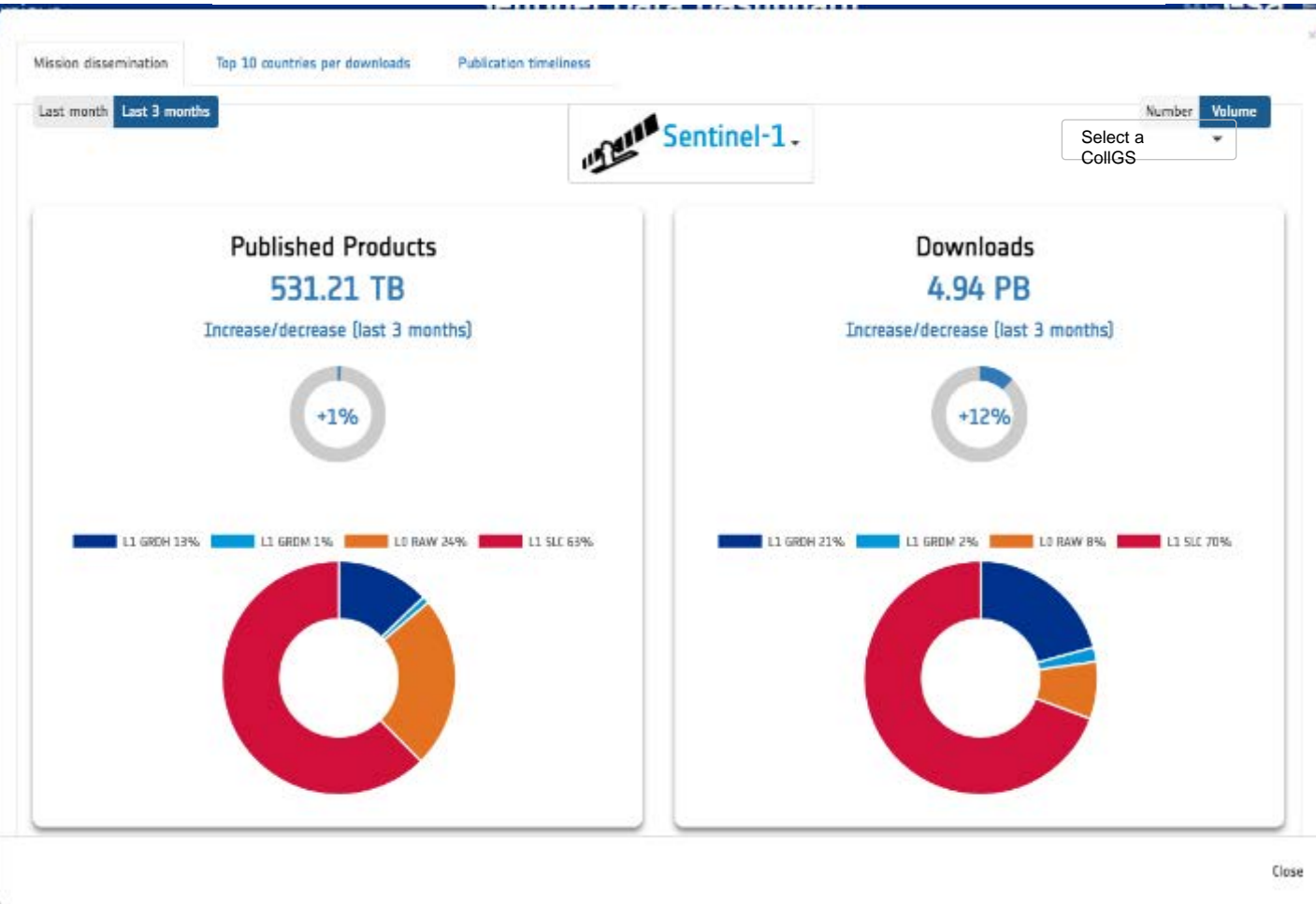
41

Increase/Decrease (Last month)

-15%



## Collaborative Partners: Dissemination Focus



# Conclusions



- Appropriate level of data aggregation will be evaluated on a case by case basis.
- Configurable links and “advertisement” for CollGS
- Review comments for ICD are welcome:
  - Deadline: 14 January 2019
  - Webex for first Consolidation: 28 January 2019
  - Operations: June 2019