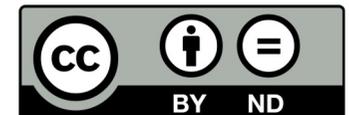


EOSC Consumable Resources

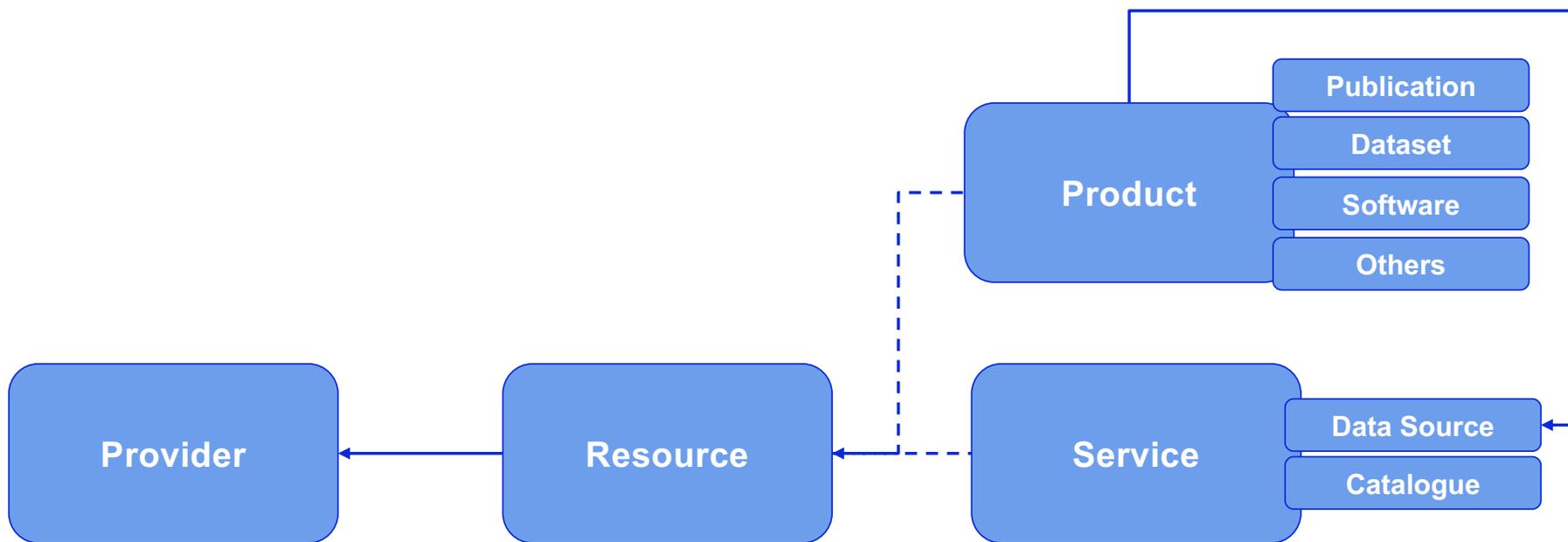
Paolo Manghi, OpenAIRE AMKE

The EOSC Future project is co-funded by the European Union Horizon Programme call INFRAEOSC-03-2020, Grant Agreement 101017536





Resources today in the EOSC: a bird-eye view





EOSC services

- Can be **digital** (e.g. computing provisioning services) or **tangible** (e.g. training services)
- Operated by an accountable for **provider**
- Expose/offer **consumables** (e.g. capabilities, assets) to end-users
- Consumables differ in **typology** (e.g. notebooks, computing, storage, online/in-presence training course)

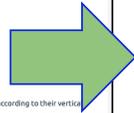
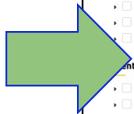


The Marketplace: accessing consumables provided by EOSC services



USER

Search for "notebooks"



EGI Notebook

EGI Notebook
Create interactive documents with live code, visualisations and text
Organisation: EGI Foundation
Provided by: CESNET

☆☆☆☆☆ (0.0/5) 0 reviews Add to comparison Add to favourites

→ Webpage → Helpdesk → Helpdesk e-mail → Manual
→ Training information

Ask a question about this resource?

ABOUT DETAILS REVIEWS (0)

SCIENTIFIC CATEGORISATION
Generic

Notebooks is a browser-based tool for interactive analysis of data using EGI storage and compute services. Notebooks are based on JupyterHub technology. This service can combine text, mathematics, computations and their rich media output using Jupyter technology, and can scale to multiple servers and users with the Cloud Compute service. Notebooks for Researchers: After a lightweight approval, users login, write and play notebooks using storage and compute capacity. Notebooks for Communities EGI offers consultancy and technology to set up a community-specific JupyterHub on top of a community VO. Comes together with EGI-enabled compute and storage resources and with community-specific storage. For individual users: Reproducible research.



The Marketplace: accessing assets provided by EOSC services

EGI Notebook
EGI Notebook
Create interactive documents with live code, visualisations and text
Organisation: EGI Foundation
Provided by: CESNET
☆☆☆☆☆ (0.0 / 5) 0 reviews Add to comparison Add to favourites

Access the resource
ORDER REQUIRED

Webpage Helpdesk Helpdesk e-mail Manual Training information
Ask a question about this resource?

ABOUT DETAILS REVIEWS (0)

Notebooks is a browser-based tool for interactive analysis of data using EGI storage and compute services. Notebooks are based on JupyterHub technology. This service can combine text, mathematics, computations and their rich media output using Jupyter technology, and can scale to multiple servers and users with the Cloud Compute service. Notebooks for Researchers: After a lightweight approval, users login, write and play notebooks using storage and compute capacity. Notebooks for Communities EGI offers consultancy and technology to set up a community-specific JupyterHub on top of a community VO. Comes together with EGI-enabled compute and storage resources and with community-specific storage. For individual users: Reproducible research with notebooks (notebooks can be re-played by the same user, shared and re-played by different users), easy to hook into other big-data environments (e.g. Spark, Hadoop) or services (e.g. Cloud Compute) provided by or hosted by EGI. For groups: establish a JupyterHub for your community on top of EGI and community-specific compute and storage resources. "For individual users: Reproducible research with notebooks (notebooks can be re-played by the same user, shared and re-played by different users), easy to hook into other big-data environments (e.g. Spark, Hadoop) or services (e.g. Cloud Compute) provided by or hosted by EGI. For groups: establish a JupyterHub for your community on top of EGI and community-specific compute and storage resources"

SCIENTIFIC CATEGORISATION
Generic

CATEGORISATION
Applications
Collaboration

TARGET USERS
Businesses
Researchers
Research Groups
Research Organisations

RESOURCE AVAILABILITY AND LANGUAGES
English

Resource offers

Notebooks for researchers
Run your own notebooks with persistent storage on EGI Cloud resources.

TECHNICAL PARAMETERS	
Amount of RAM	1 - 4 GB
Number of cores	1 - 4
Persistent storage	1 - 20 GB

Select an offer

Notebooks for communities
Community specific deployment to provide notebooks for all the users of a community. Allows further customisation to meet the community needs (e.g. shared storage).

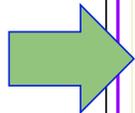
TECHNICAL PARAMETERS	
Number of users	1 - 100
Cores per user	1 - 4
Storage per user	1 - 100 GB
RAM per user	1 - 4 GB

Select an offer



USER

"Ordering" a Notebook



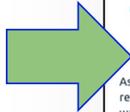


Marketplace Projects: exposing “consumables” to end users



PROVIDER

Structuring the offer of consumables by means of MP projects



Welcome to the Marketplace Projects!

With Marketplace Projects you can organise your resources and resource orders into a logical blocks to reflect a common scientific purpose and gain support for the created Marketplace Project.

[Create your first project](#)

As the resources available in the Marketplace are available for all European researchers you can precise your customer typology. Tell us, whether you want to use available EOSC resources in the scope of:

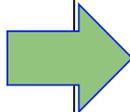
- your own academic research,
- larger community collaboration,
- EC project or maybe,
- R&D work of your company.

and along with a general description of your scientific work you will be able to get assistance from international technical teams who provide advice on the most suitable solutions to address your needs. To get this support, after creating a MP Project please go to [CONTACT WITH EOSC EXPERT](#).

When ready to start using EOSC resources, with 'Resources' tab you can select EOSC resources and suitable for your work. Some of them you will be able to start using right away, some will require an access request (Marketplace order). For the latter, Marketplace Projects will be the place to follow up your orders, get all relevant information about the resource access when the access is granted, contact the EOSC support if necessary.

So find out how EOSC can support your scientific needs and use our quick creation form to add your Marketplace project!

If you need help with creating a new project, don't hesitate and contact with our support.



MY PROJECTS

My scientific project1

My scientific project2

[Create new project](#)

EGI Notebook BUNDLE NEW

[back to My scientific project2 project resources](#)

DETAILS	ORDER HISTORY	CONTACT WITH RESOURCE PROVIDER
Resource name:	EGI Notebook	
Resource offer:	EGI Notebook + B2DROP	
Order date:	11.10.2022	
Resource access:	Order Required	
Project name:	My scientific project2	
Resource Organisation:	EGI Foundation	
Resource Providers:	CESNET	

PARAMETERS

Amount of RAM	1 GB
Number of cores	2
Persistent storage	10 GB

This resource was ordered with resources below (Bundle):

B2DROP	NEW
--------	-----

Some common properties plus custom properties



Cool! But can we improve?



Today consumables are not EOSC resources!

European Open Science Cloud

notebooks

Clear phrase X Services Search

All catalogs Publications Data Software **Services** Data sources Trainings Other research products

EGI Notebook

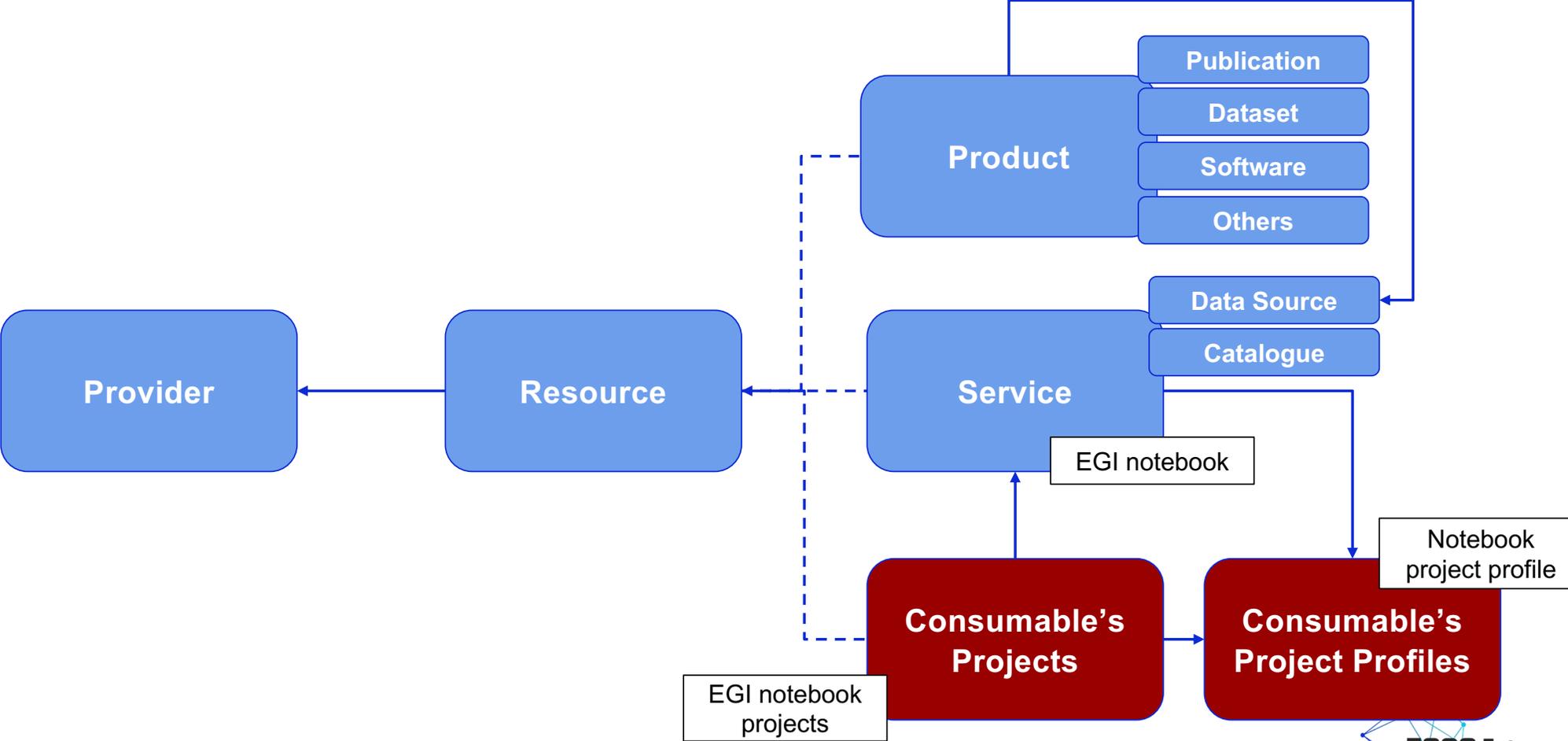
Resource offers

Offer	Amount of disk	Number of cores	Persistent storage
Notebooks for researchers	1-4 GB	1-4	1-20 GB
Notebooks for communities	1-4 GB	1-4	1-100 GB

- They are not first-class citizens of the Marketplace
- They are exposed as a second-level functionality by the EOSC Order management
- They are specific to a given service

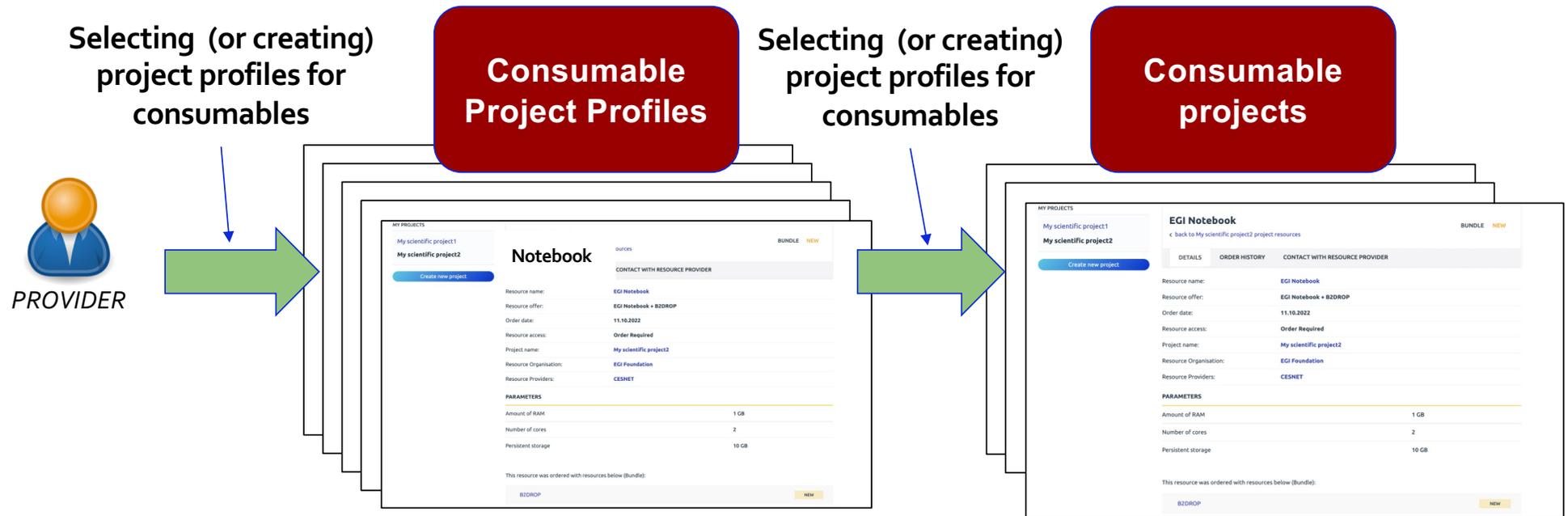


Updating the EOSC Model: consumable resources (name still to be confirmed)





The Marketplace: publishing and discovering consumable resources

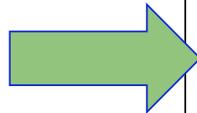


Consumables as EOSC resources



USER

Search for "notebooks"



The screenshot shows the EOSC search results page for the query "notebooks". The page features a navigation bar with "Consumables" selected, a search bar, and a list of filters. The search results are displayed in a grid format, including suggested items and EGI Notebooks.

EUROPEAN OPEN SCIENCE CLOUD

notebooks Consumables Search

All catalogs Publications Data Software Services Data sources Trainings **Consumables** Other research products

Consumables (69 results)
All catalogs > Consumables

Filters

Target users clear all

- Researchers (23)
- Communities (46)

Availability period clear all

Start date
Select start date

End date
Select end date

SUGGESTED

- A Line from Rabelais: Faire and Softl...**
Publication Open Access
Undetermined
Author names: Oscar Grünwald
DOI: 10.2307/30062679
- Science Archives at the ESAC Science ...**
Publication Open Access
UNKNOWN
Author names: Arviset, Christophe
DOI: 10.5281/zenodo.34493
- Pachyrotula raceki**
Publication Open Access
UNKNOWN
Author names: Pronzato, Roberto Manconi, Renata
DOI: 10.5281/zenodo.3664961 10.5281/zenodo.3664960

<< < 1 2 3 4 5 >

EGI Notebook for researchers
Available units (23)
Notebook properties (capacity)

EGI Notebook
EGI Notebook
Create interactive documents with live code, visualisations and text
Organisation: EGI Foundation
Provided by: CESNET
☆☆☆☆ (0.0/5) 0 reviews Add to comparison Add to favourites

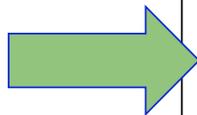
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Consumables as EOSC resources

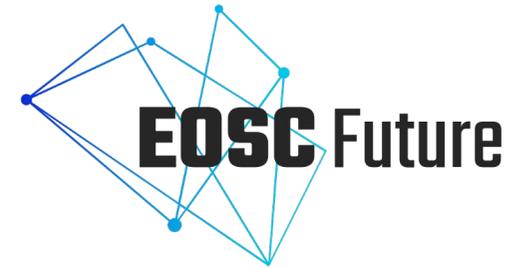


Search for all



The screenshot displays the European Open Science Cloud (EOSC) interface. At the top left is the EOSC logo. A search bar contains the word 'search'. To its right, a dropdown menu is set to 'Consumables' and a search button is visible. Below the search bar is a navigation menu with categories: 'All catalogs', 'Publications', 'Data', 'Software', 'Services', 'Data sources', 'Trainings', 'Consumables' (highlighted), and 'Other research products'. The main content area is titled 'Consumables (345 results)' and includes a breadcrumb 'All catalogs > Consumables'. A pagination bar shows page 1 of 5. On the left, a 'Filters' section is titled 'Types' and includes a 'clear all' button and four filter options: 'Notebook (69)', 'Open Science training seminars (54)', 'Storage (53)', and 'Virtual Research Environments (47)'. The main results area displays four resource cards:

- EGI Notebook for researchers**: Available units (23), Notebook properties (capacity). Description: EGI Notebook. Create interactive documents with live code, visualisations and text. Organisation: EGI Foundation. Provided by: CESNET. Rating: 0.0/5 (0 reviews).
- EGI Notebook for communities**: Available units (46), Notebook properties (capacity). Description: EGI Notebook. Create interactive documents with live code, visualisations and text. Organisation: EGI Foundation. Provided by: CESNET. Rating: 0.0/5 (0 reviews).
- OpenAIRE training seminars**: Available units (54), Open Science training seminars properties. Description: Open Science Training. Practice Open and FAIR Science. Organisation: OpenAIRE. Rating: 0.0/5 (0 reviews). Includes links for Webpage, Helpdesk, Helpdesk e-mail, and Manual.
- Storage for Communities And Organisations**: Available units (53), Storage properties. Description: B2DROP. Synch and share research data. Organisation: EUDAT. Provided by: SURF, Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen, Jülich Supercomputing Centre. Rating: 3.5/5 (2 reviews).



Thank you for your attention!