### Onboarding services to the EOSC Marketplace: An example of REVIGO service

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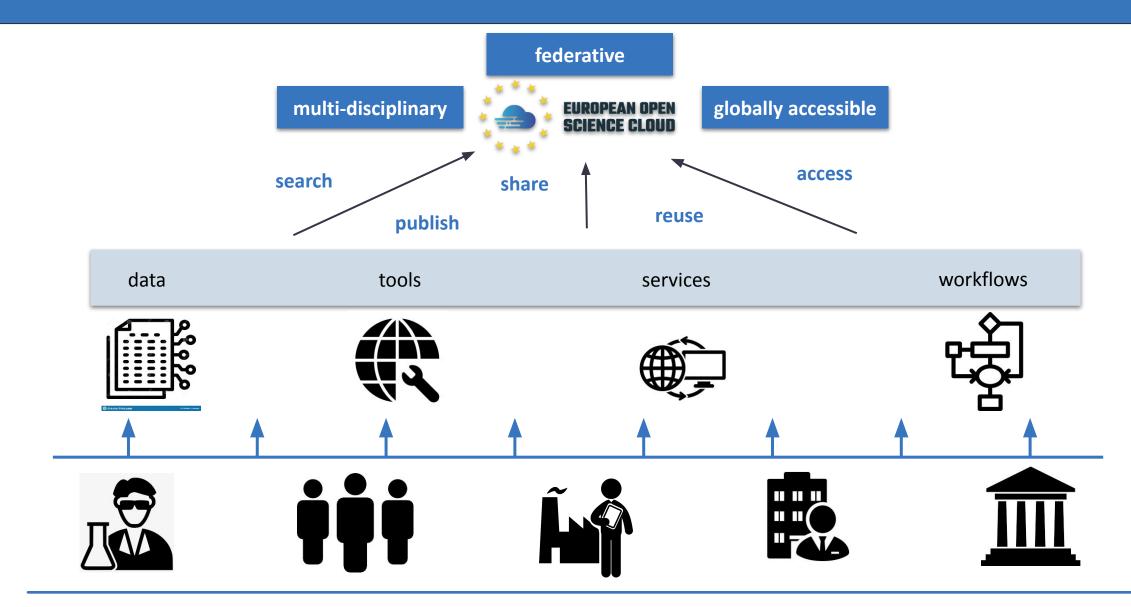


NIXOS

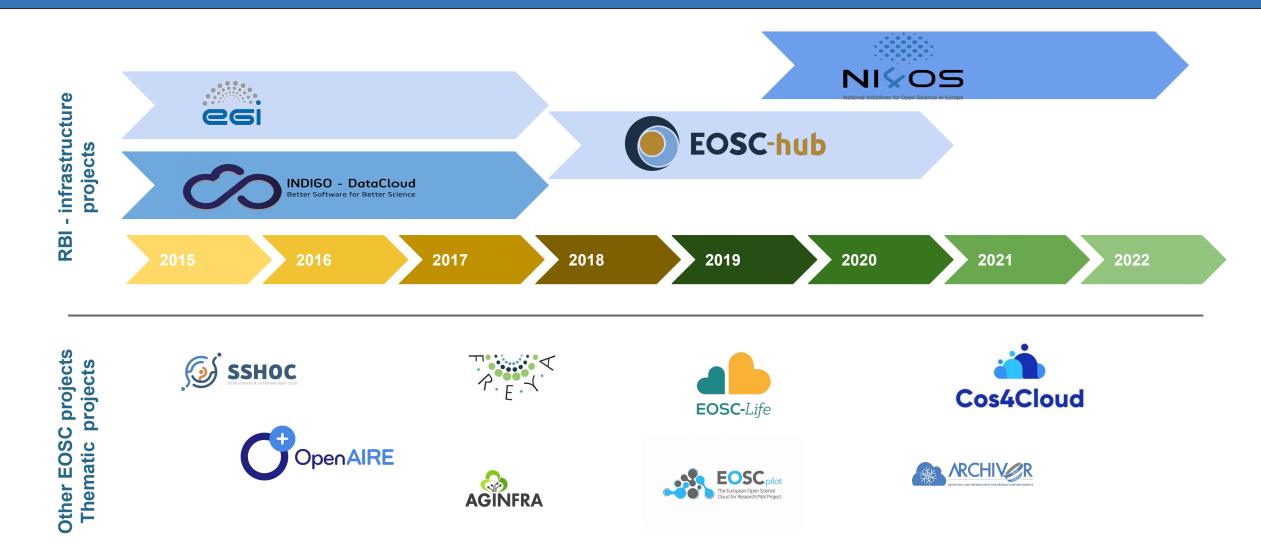
Europe

National Initiatives for Open Science in Europe – H2020 Research and Innovation action – contract no. 857645

### **European Open Science Cloud (EOSC)**



### **EOSC projects**



## NI4OS: National Initiatives for Open Science in Europe



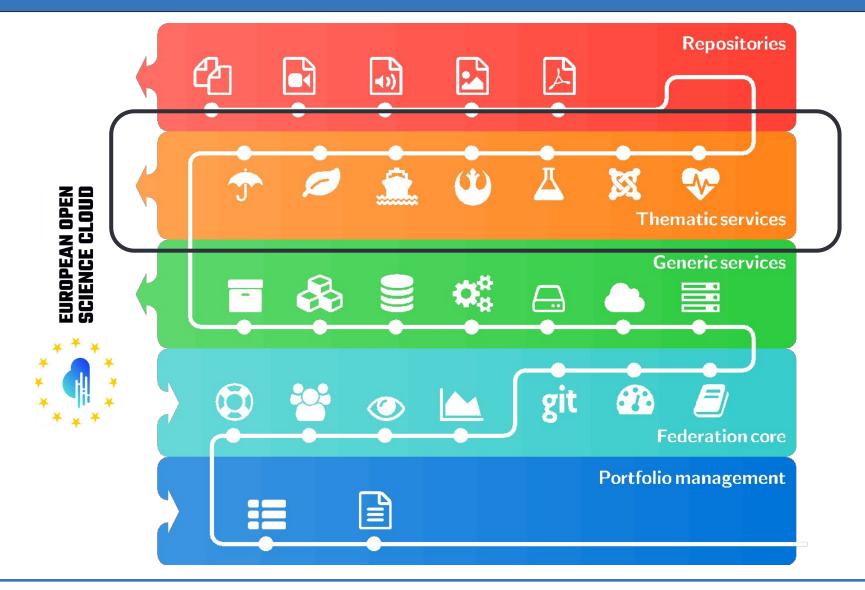
- 09/2019 02/2023
- 22 partners from 15 countries

RBI role includes 'onboarding' of specific thematic services (bioinformatics) from RBI research groups. Main objectives:

- Facilitate the federation of existing infrastructures & SoA services and their **smooth on-boarding** into EOSC - focus on OSC initiatives from 15 members of project consortium (SE-Europa)
- 2. Enable the EOSC-relevant, non-commercial infrastructures, repositories and thematic services to be accessed through the EOSC portal.
- 3. Provide the necessary technical, organizational and legal guidelines, tools, mechanisms and certification schemes, to support Open Research Data Management (ORDM) and its implementation in a harmonized and coordinated fashion.

### **Types of services for on-boarding**





# Why to become a part of EOSC?

### **U** Visibility and reusability

- Visible to a larger community
- Single point of access (via Marketplace)

### Improved Quality of Service (QoS)

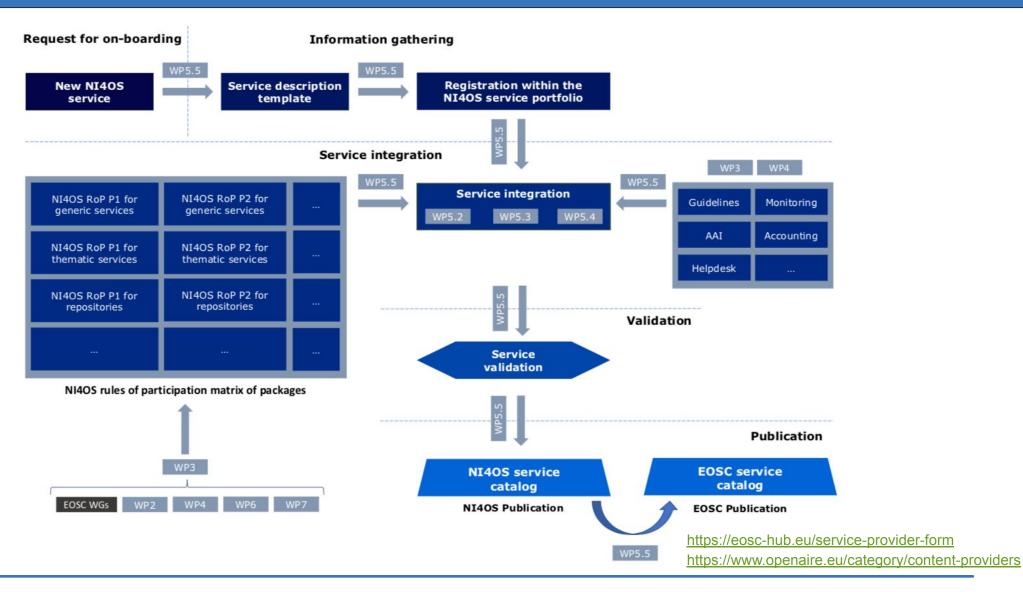
- Improved support to end users (helpdesk), federated AAI,
- □ Federated solutions for some backend services and tools
  - helpdesk, accounting, monitoring, AAI
- Hosting
  - compute and storage resources

### **NI4OS Onboarding procedure:**

- Onboarding includes all practical activities taken to incorporate a resources into the EOSC federation
- □ In general, NI4OS resource onboarding includes five main steps:
  - a request via a dedicated from project operational team will initiate the onboarding procedure for all resources and send the corresponding request to the EOSC,
  - **relevant information** is gathered using a portal-specific RDT,
  - a resource is integrated with the NI4OS pre-production environment,
  - a service is validated by tools from the NI4OS pre-production environment,
  - a service **is published** in the EOSC catalogue



### **NI4OS-Europe view of the on-boarding process**



### EOSC Marketplace - one-stop-shop for EOSC compatible services

Web portal for easy access to services and resources for various research domains: <u>https://marketplace.eosc-portal.eu/</u>



### **REVIGO Thematic Service**



http://revigo.irb.hr/

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RESEARCH ARTICLE

### REVIGO Summarizes and Visualizes Long Lists of Gene Ontology Terms

Fran Supek 🖾, Matko Bošnjak, Nives Škunca, Tomislav Šmuc

Published: July 18, 2011 • https://doi.org/10.1371/journal.pone.0021800

### What is the secret behind its success?

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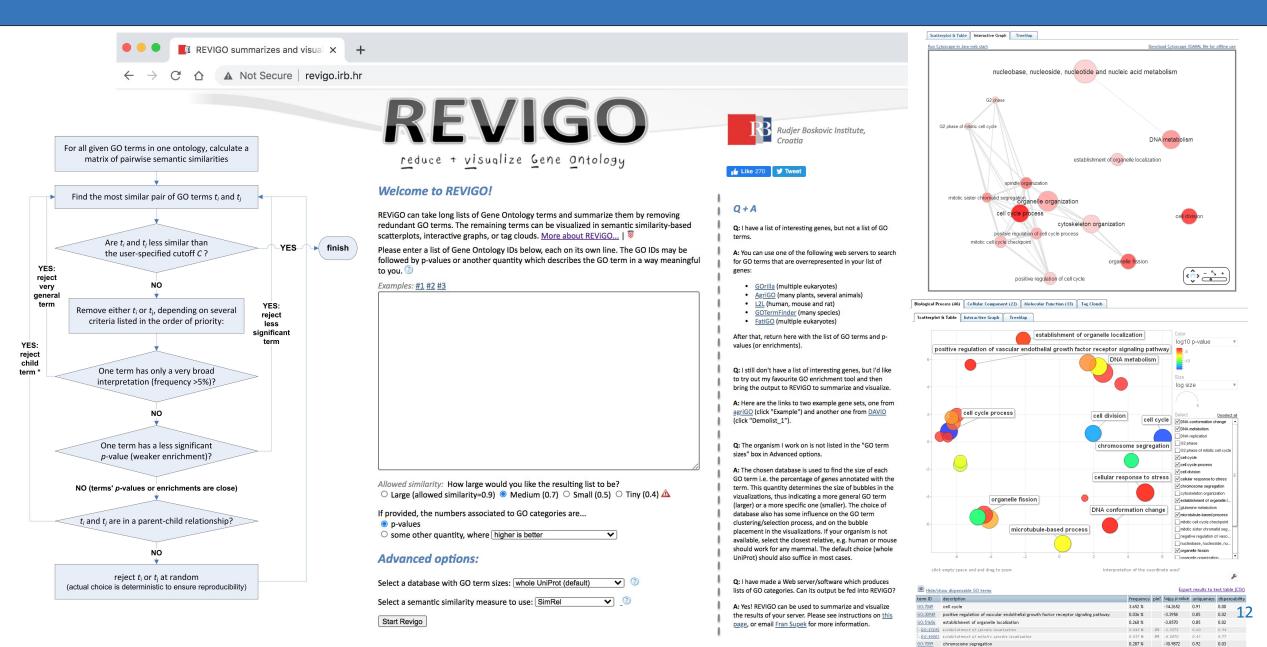
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### **REVIGO - REduction and VIsualization of Gene Ontology**



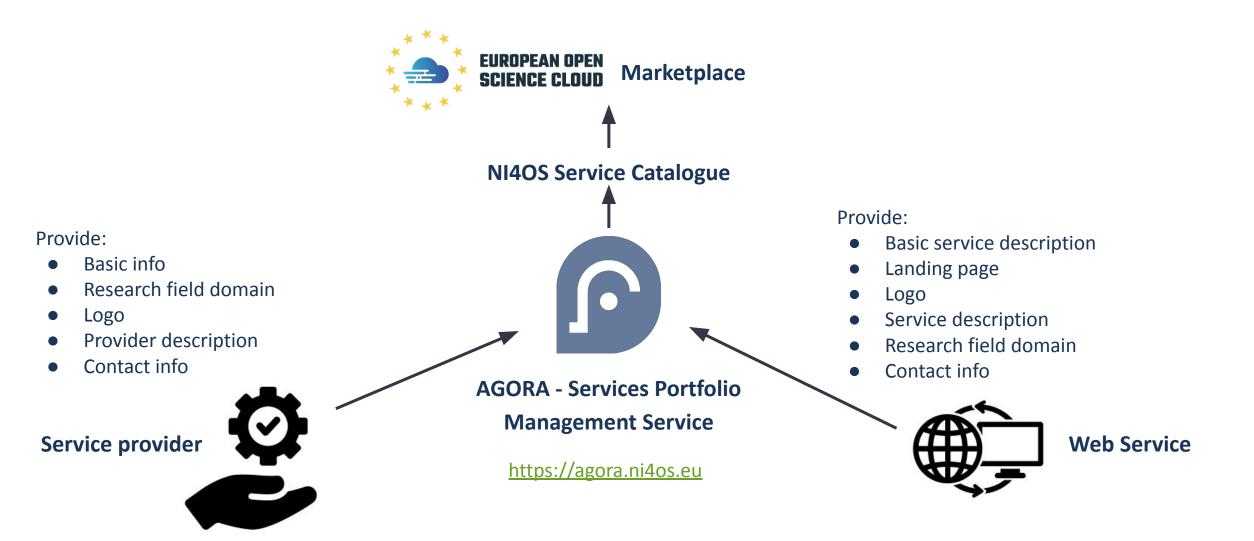
### **REVIGO onboarding steps**

□ Goal: register in the NI4OS catalogue

**Enables automatic service registration within EOSC Marketplace** 

- □ Step 1: Provider and service registration (NI4OS Agora Service)
- □ Step 2: Define policies
- □ Step 3: Integrate with other EOSC/NI4OS services

# Step 1: Provider and service registration - Agora (Mandatory)



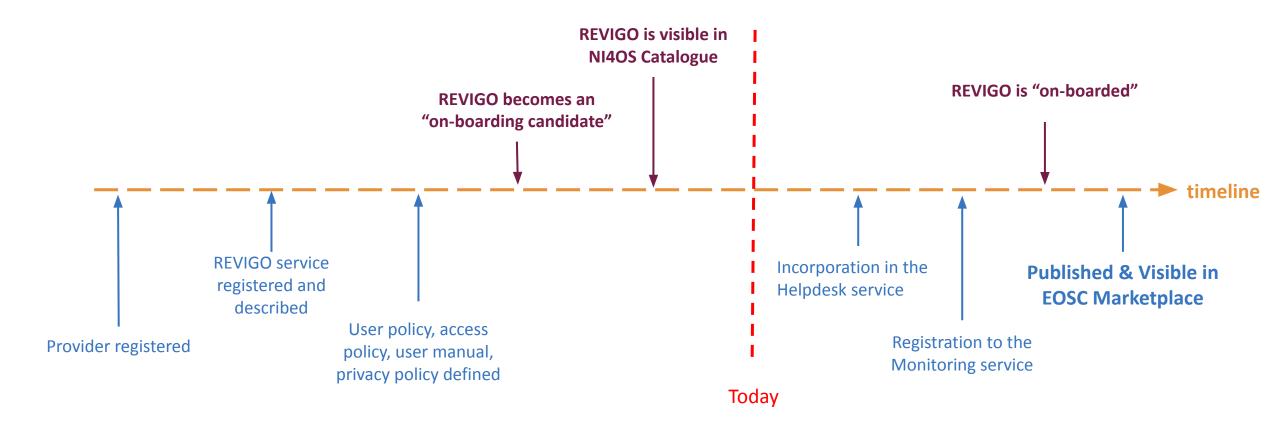
### **Step 2: Define policies**

User policy Terms of use Access policy User manual Privacy policy Most of these were undefined in the Revigo service before onboarding!

## Step 3: Integration with EOSC core services (ongoing)

- Integration with the NI4OS <u>Helpdesk</u> system
  - Provide user-support via federated helpdesk systems instead of sending emails
- Integrate in the Monitoring system (<u>ARGO</u>)
  - online monitoring the health of the service: status, availability and reliability
- Other possibilities:
  - Storage systems
  - Compute services (e.g. cloud infrastructure)
  - Authentication and authorization (AAI)

### **REVIGO onboarding timeline**



# Lessons learned / experiences

- □ For well-matured services the processes is simple and easy
- Improved QoS
- The onboarding processes "forces" us to improve the service's documentation (different policies) -> use best-practice
- The process was straightforward and easy to conduct
- Reduced time and know-how to operate backend services -> Helpdesk, Monitoring

**Thanks!** 



