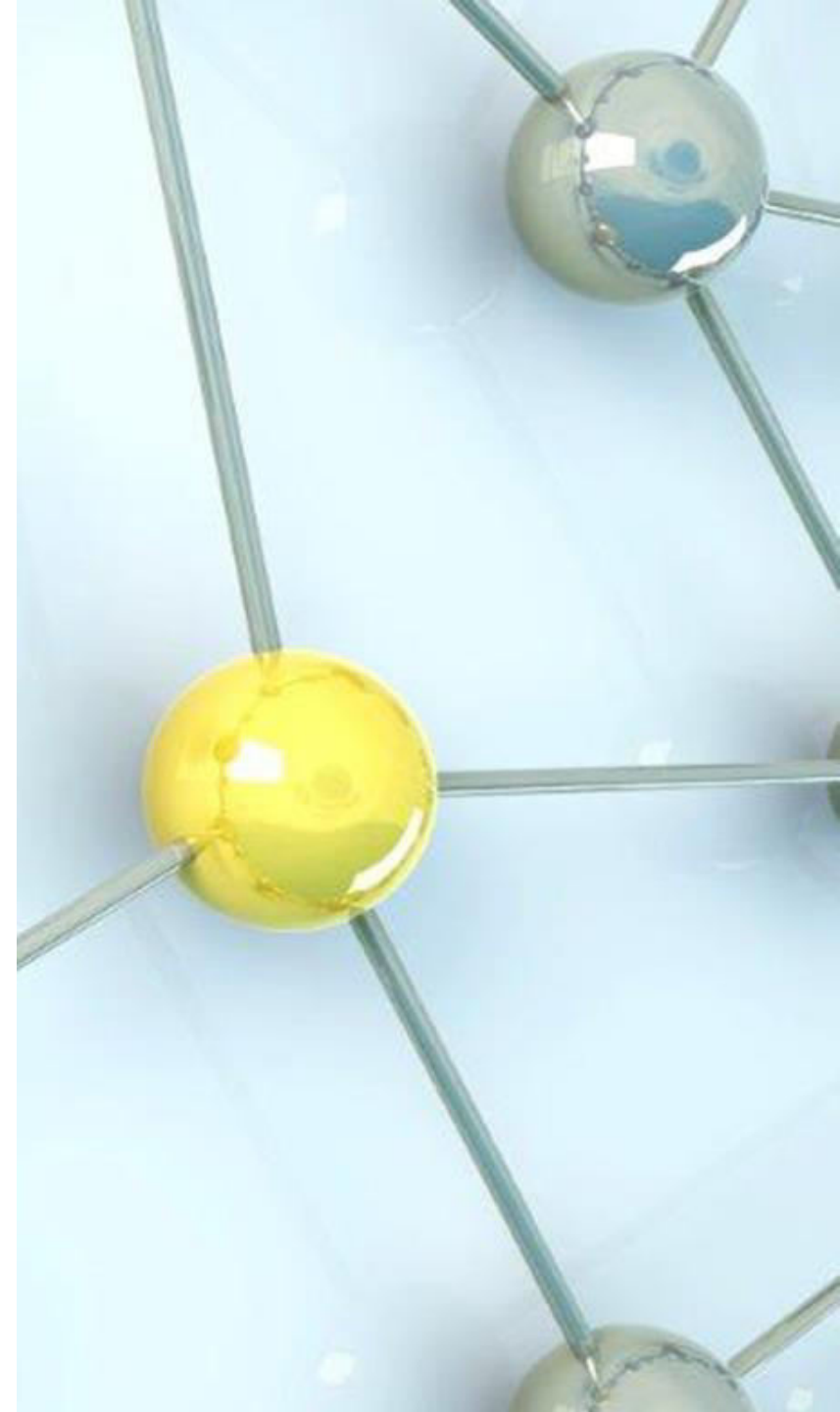




National Initiatives for Open Science in Europe

Preparing and Cataloguing Services in the Region for EOSC

Anastas Mishev, University Ss. Cyril and Methodius in Skopje

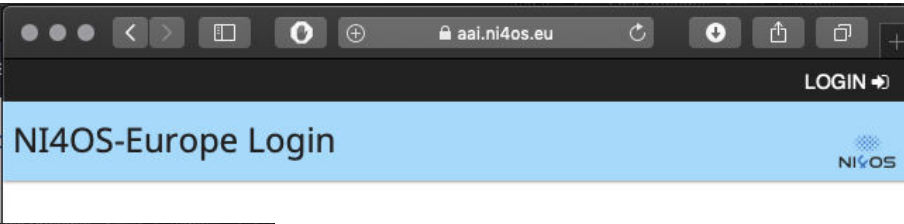


Introduction

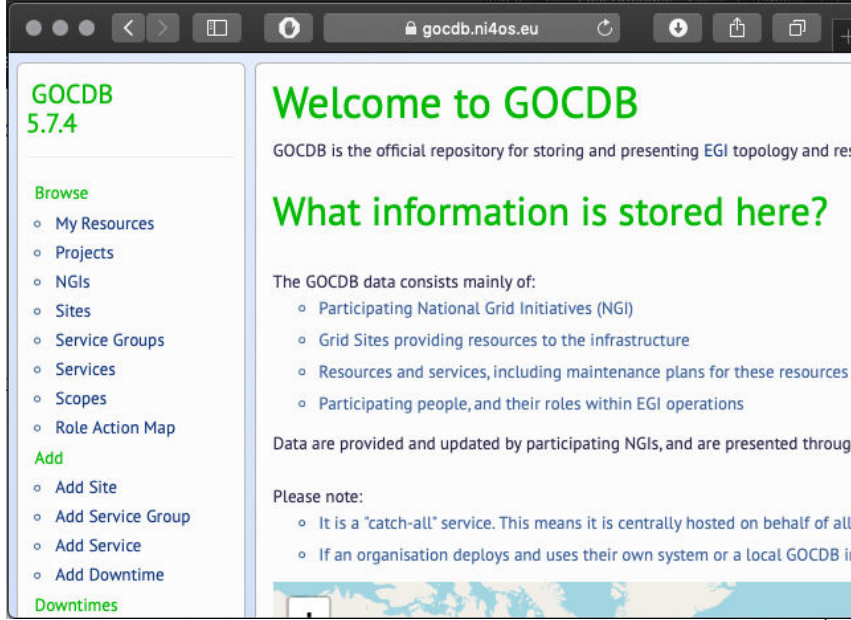
- From institutional services to global catalogue via the pre-production environment
- Minimum set of federating services to support integration of the initial set of the regional service into the EOSC
- Environment equivalent to the EOSC Core
- Essential building blocks that will enable the integration of all the other service in the EOSC ecosystem
- Verify the services before EOSC on-boarding
- Regionally support the service providers through the process
 - Based on the previous experience of excellent regional cooperation

Technical architecture of the pre-production env.

- Service portfolio management system
 - Agora
- Helpdesk
 - Request tracker
- AAI
 - NI4OS Login
- Monitoring
 - Argo
- Inventory
 - GOCDDB
- Accounting
 - in-house
- Training
 - Moodle + BBB
- Wiki
 - MediaWiki
- Events
 - Indico



NI4OS-Europe Login



Welcome to GOCDDB

GOCDDB is the official repository for storing and presenting EGI topology and res

What information is stored here?


The GOCDDB data consists mainly of:

- Participating National Grid Initiatives (NGI)
- Grid Sites providing resources to the infrastructure
- Resources and services, including maintenance plans for these resources
- Participating people, and their roles within EGI operations

Data are provided and updated by participating NGIs, and are presented through

Please note:

- It is a "catch-all" service. This means it is centrally hosted on behalf of all
- If an organisation deploys and uses their own system or a local GOCDDB in



Welcome to NI4OS-Europe Login.

LOG IN

Log in

Main page Discussion Read More Search NI4OS wiki

NI4OS wiki

Contents [hide]

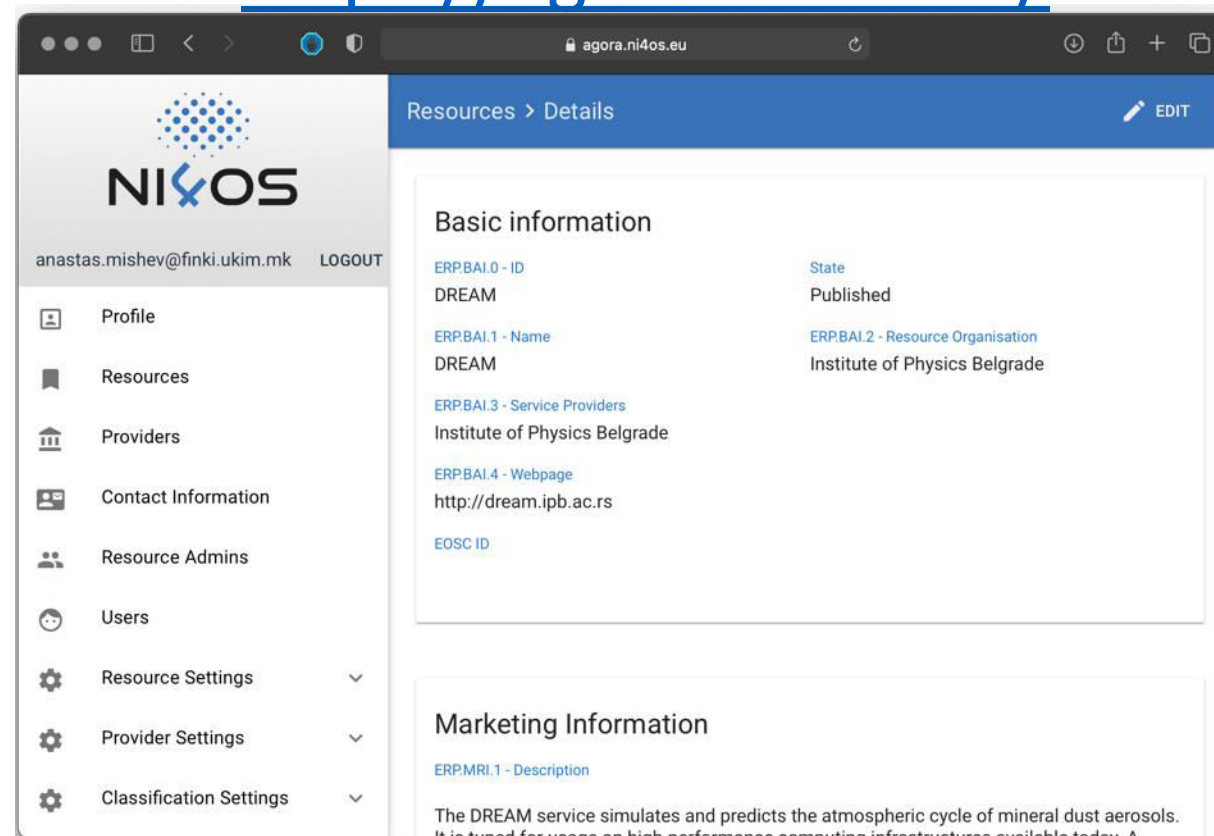
- 1 NI4OS services-related resources
 - 1.1 Pre-production environment
 - 1.1.1 Service portfolio management tool
 - 1.1.2 Configuration Management Database
 - 1.1.3 Authentication & Authorisation Infrastructure (AAI) service
 - 1.1.4 Training
 - 1.2 Service on-boarding
 - 1.2.1 Categorization
- 2 COVID-19 resources

NI4OS services-related resources

SPMT

- AGORA system, developed by GRNET
- Hosted by GRNET
- Fully compatible with EOSC catalogues
- Based on the EOSC Service Profiles 4.0

<https://agora.ni4os.eu/>



The screenshot displays the AGORA system interface. The browser address bar shows the URL <https://agora.ni4os.eu/>. The page title is "Resources > Details" and includes an "EDIT" button. The user is logged in as "anastas.mishev@finki.ukim.mk" with a "LOGOUT" option. The left sidebar contains a navigation menu with the following items: Profile, Resources, Providers, Contact Information, Resource Admins, Users, Resource Settings, Provider Settings, and Classification Settings. The main content area is titled "Basic information" and lists the following details for the resource "DREAM":

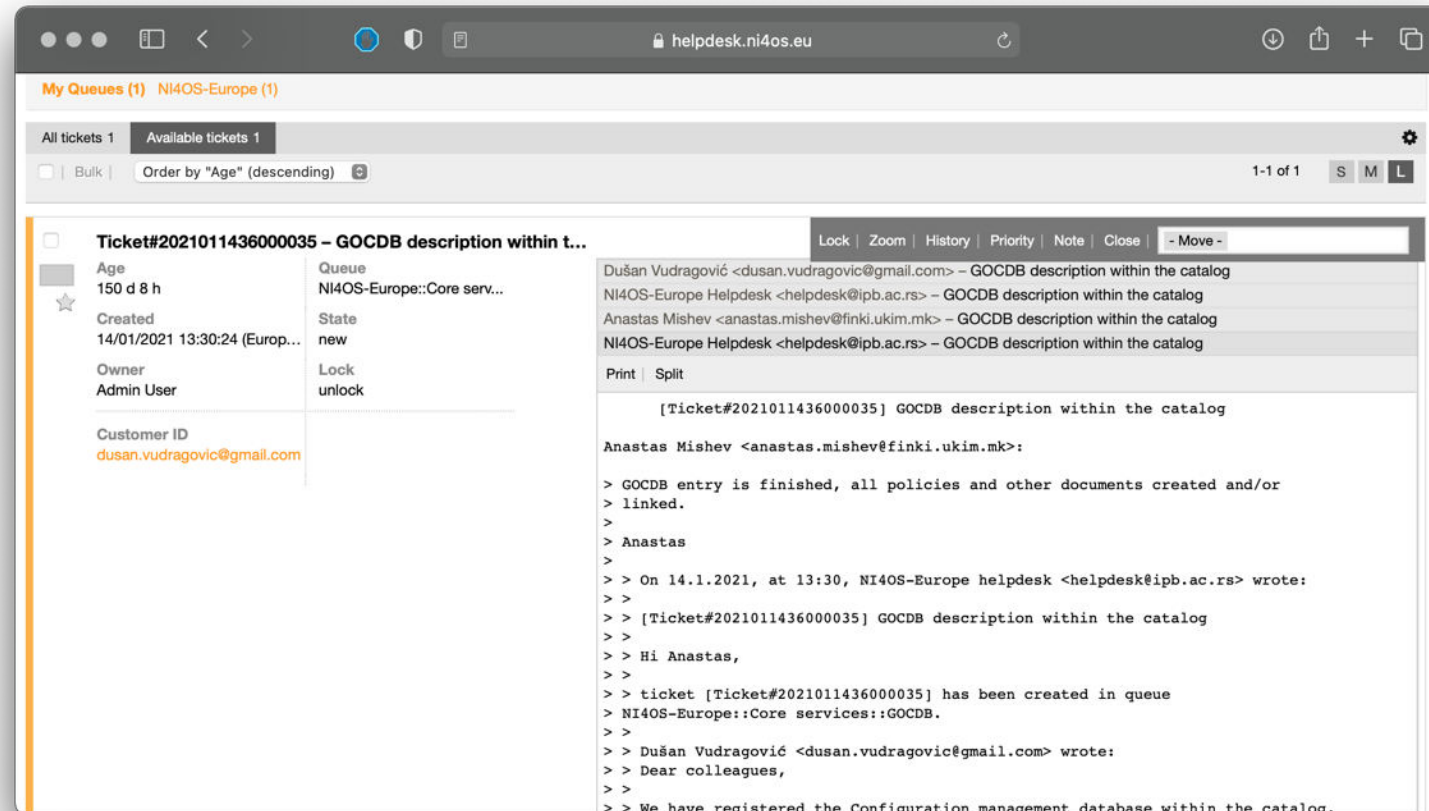
- ERPBAI.0 - ID: DREAM
- State: Published
- ERPBAI.1 - Name: DREAM
- ERPBAI.2 - Resource Organisation: Institute of Physics Belgrade
- ERPBAI.3 - Service Providers: Institute of Physics Belgrade
- ERPBAI.4 - Webpage: <http://dream.ipb.ac.rs>
- EOSC ID: [Link]

The "Marketing Information" section is partially visible, showing the description: "The DREAM service simulates and predicts the atmospheric cycle of mineral dust aerosols. It is tuned for usage on high performance computing infrastructures available today."

Helpdesk

- OTRS
- Hosted by IPB
- Procedures for registering support channels available on the wiki

<https://helpdesk.ni4os.eu/>



The screenshot displays the NI4OS Europe Helpdesk interface. The browser address bar shows `helpdesk.ni4os.eu`. The page title is "My Queues (1) NI4OS-Europe (1)". The main content area shows a list of tickets, with one selected: "Ticket#2021011436000035 - GOCDB description within t...". The ticket details are as follows:

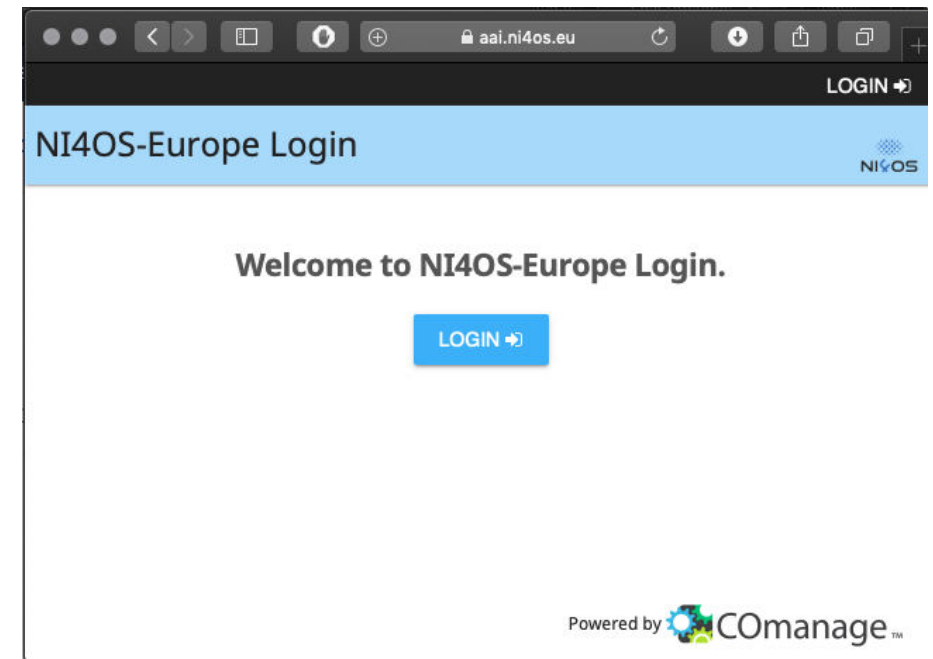
Age	150 d 8 h	Queue	NI4OS-Europe::Core serv...
Created	14/01/2021 13:30:24 (Europ...	State	new
Owner	Admin User	Lock	unlock
Customer ID	dusan.vudragovic@gmail.com		

The ticket description is visible in the right-hand pane, showing a conversation between Dušan Vudragović and Anastas Mishev regarding the GOCDB description within the catalog.

AAI – NI4OS-Europe Login

- Hosted by GRNET
- Part of eduGAIN
- Dedicated wiki page with the instructions how to integrate services with NI4OS Login
- https://wiki.ni4os.eu/index.php/AAI_guide_for_SPs

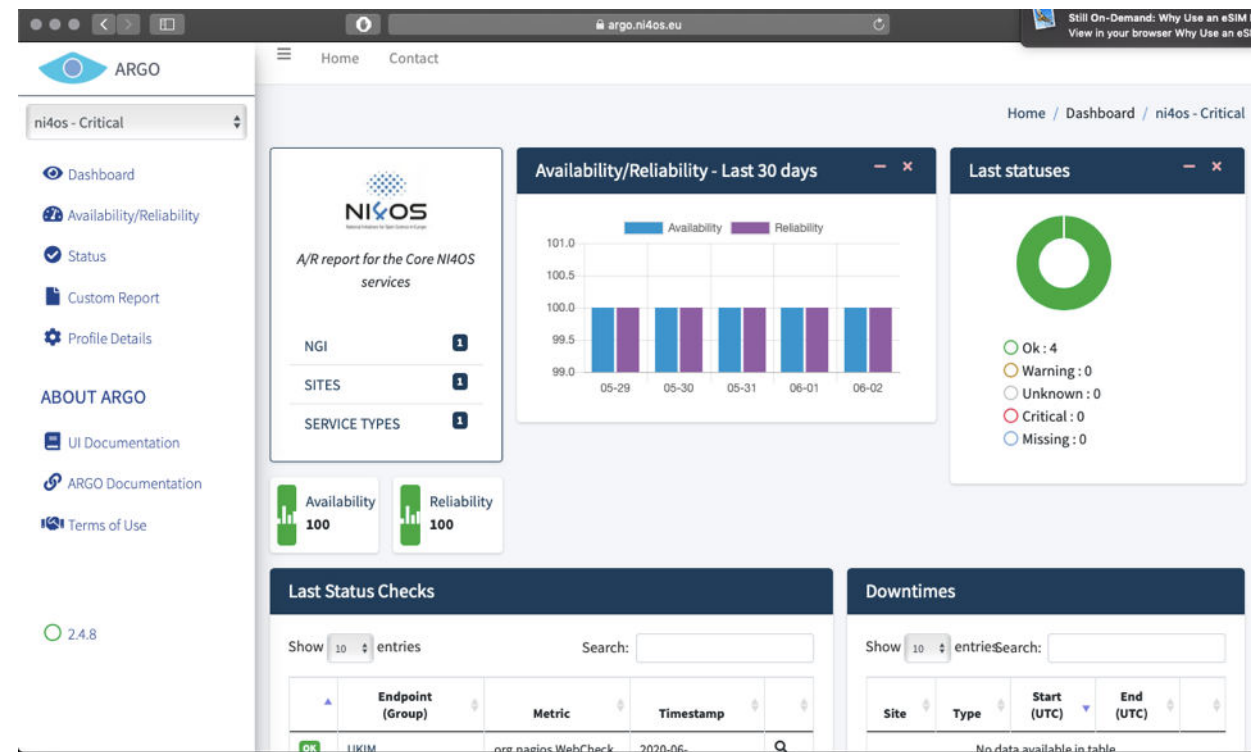
<https://aai.ni4os.eu/>



Monitoring

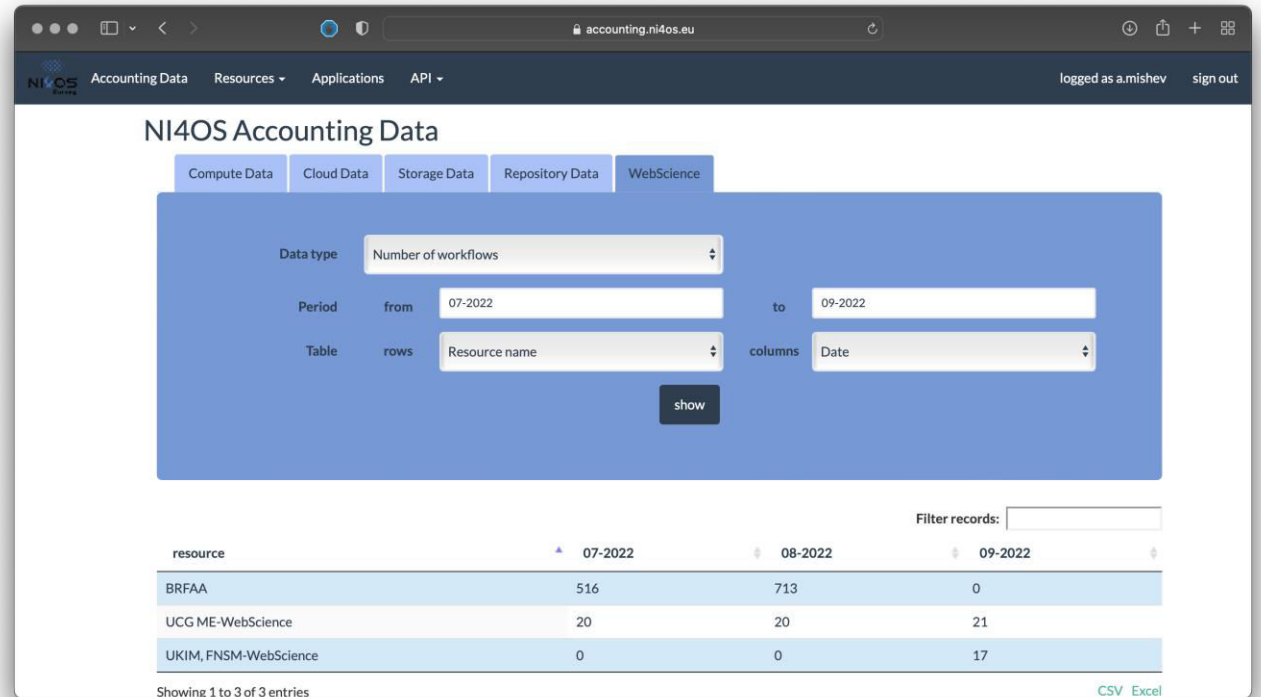
- ARGO tool used for monitoring
- Hosted by GRNET and SRCE
- Instructions on how to integrate services available at the wiki
- https://wiki.ni4os.eu/index.php/Monitoring_guide_for_SPs

<https://argo.ni4os.eu>



Accounting

- Developed and hosted by IICT
- Initially accounting for HPC resources
- Extended to support thematic services, repositories and other types of generic services



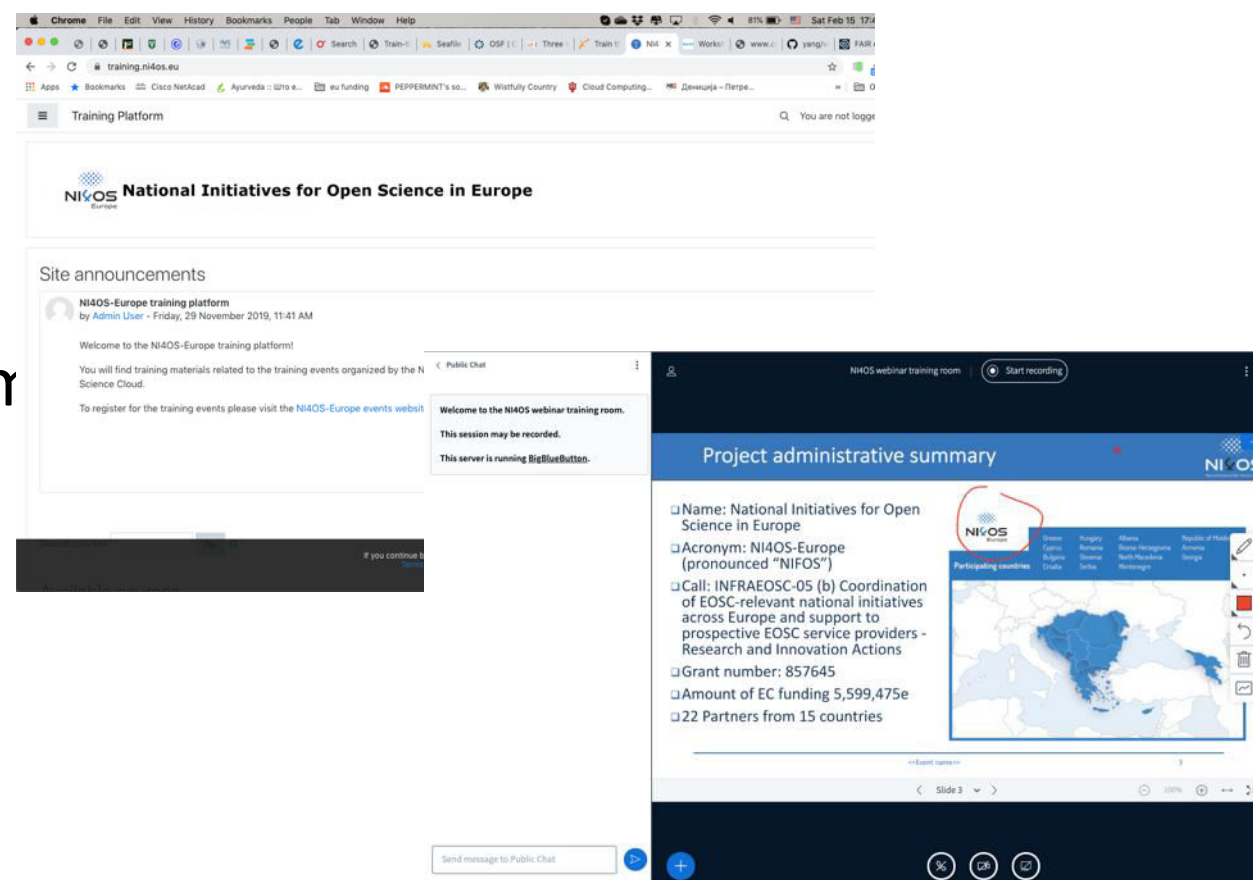
The screenshot shows the NI4OS Accounting Data web application. The interface includes a navigation bar with 'Accounting Data', 'Resources', 'Applications', and 'API'. The main content area is titled 'NI4OS Accounting Data' and features several tabs: 'Compute Data', 'Cloud Data', 'Storage Data', 'Repository Data', and 'WebScience'. Below the tabs, there is a form for filtering data. The 'Data type' is set to 'Number of workflows'. The 'Period' is set from '07-2022' to '09-2022'. The 'Table' is set to 'Resource name' and the 'columns' are set to 'Date'. A 'show' button is present. Below the form, there is a table with columns for 'resource', '07-2022', '08-2022', and '09-2022'. The table contains three rows of data. At the bottom, there is a 'Filter records:' input field, a 'Showing 1 to 3 of 3 entries' message, and 'CSV Excel' download options.

resource	07-2022	08-2022	09-2022
BRFAA	516	713	0
UCG ME-WebScience	20	20	21
UKIM, FNSM-WebScience	0	0	17

Training

- Moodle + BigBlueButton based
- Hosted by UKIM
- AAI login enabled
- Full GDPR compliance
- Integrated rich webinar environment

<https://training.ni4os.eu/>

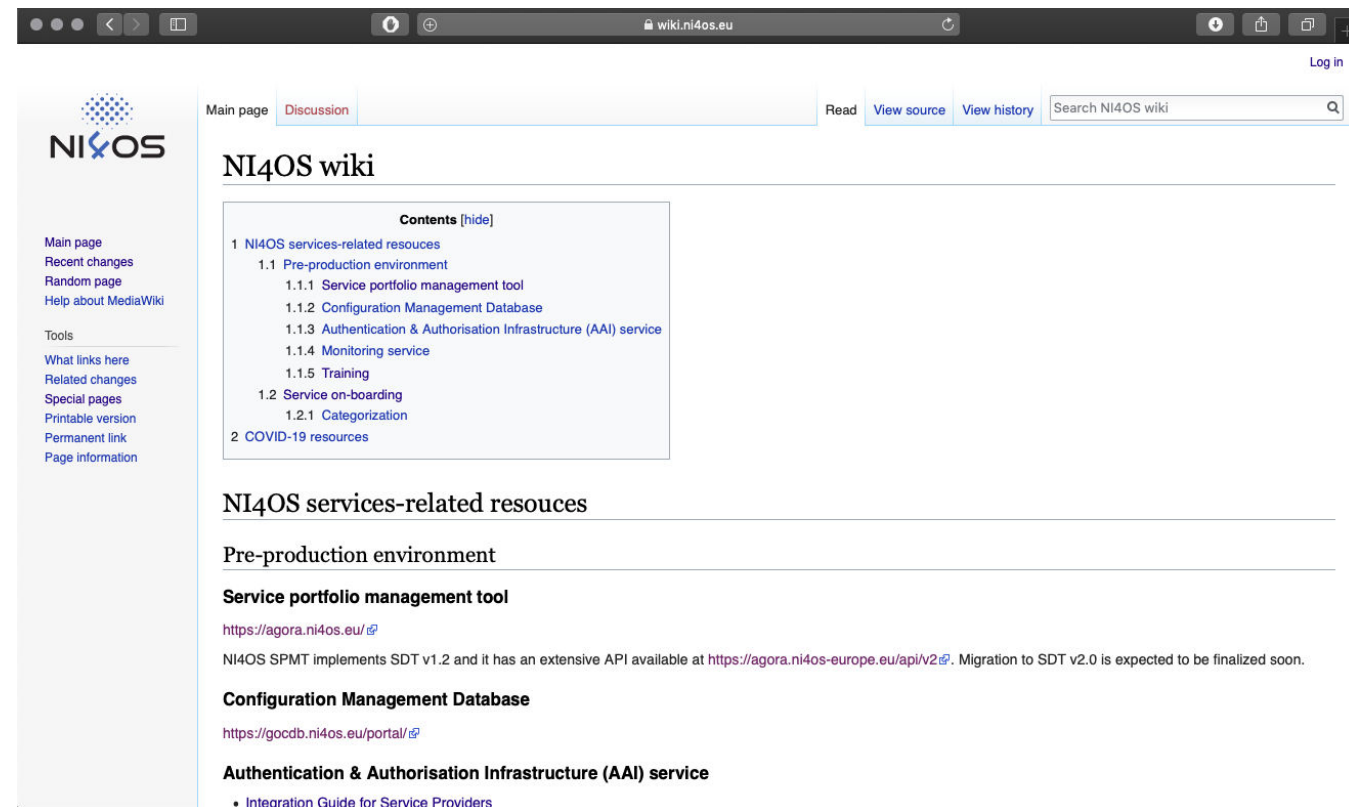


The image shows two overlapping screenshots. The top screenshot is a browser view of the training platform website. The browser address bar shows 'training.ni4os.eu'. The website header includes the NI4OS logo and the text 'National Initiatives for Open Science in Europe'. Below the header, there is a 'Site announcements' section with a post from 'Admin User' dated Friday, 29 November 2019, 11:41 AM. The post content includes a welcome message and a link to the 'NI4OS-Europe events website'. The bottom screenshot shows a webinar interface. The title bar reads 'NI4OS webinar training room' with a 'Start recording' button. The main content area is titled 'Project administrative summary' and lists the following details: Name: National Initiatives for Open Science in Europe; Acronym: NI4OS-Europe (pronounced "NIFOS"); Call: INFRAEOSC-05 (b) Coordination of EOSC-relevant national initiatives across Europe and support to prospective EOSC service providers - Research and Innovation Actions; Grant number: 857645; Amount of EC funding 5,599,475e; 22 Partners from 15 countries. To the right of the text is a map of Europe with a red circle highlighting a specific region. The interface also includes a 'Public Chat' window with a welcome message and a 'Send message to Public Chat' input field at the bottom.

Technical wiki

- MediaWiki based
- Hosted by IPB
- Contains a growing set of document explaining the integration process of different types of services with the pre-production environment as well as the on-boarding procedure, members of the team, etc.

<https://wiki.ni4os.eu/>



The screenshot shows the NI4OS wiki homepage. The browser address bar displays 'wiki.ni4os.eu'. The page features a navigation menu with 'Main page' and 'Discussion' tabs, and a search bar labeled 'Search NI4OS wiki'. The main content area is titled 'NI4OS wiki' and includes a 'Contents [hide]' table of contents with the following items:

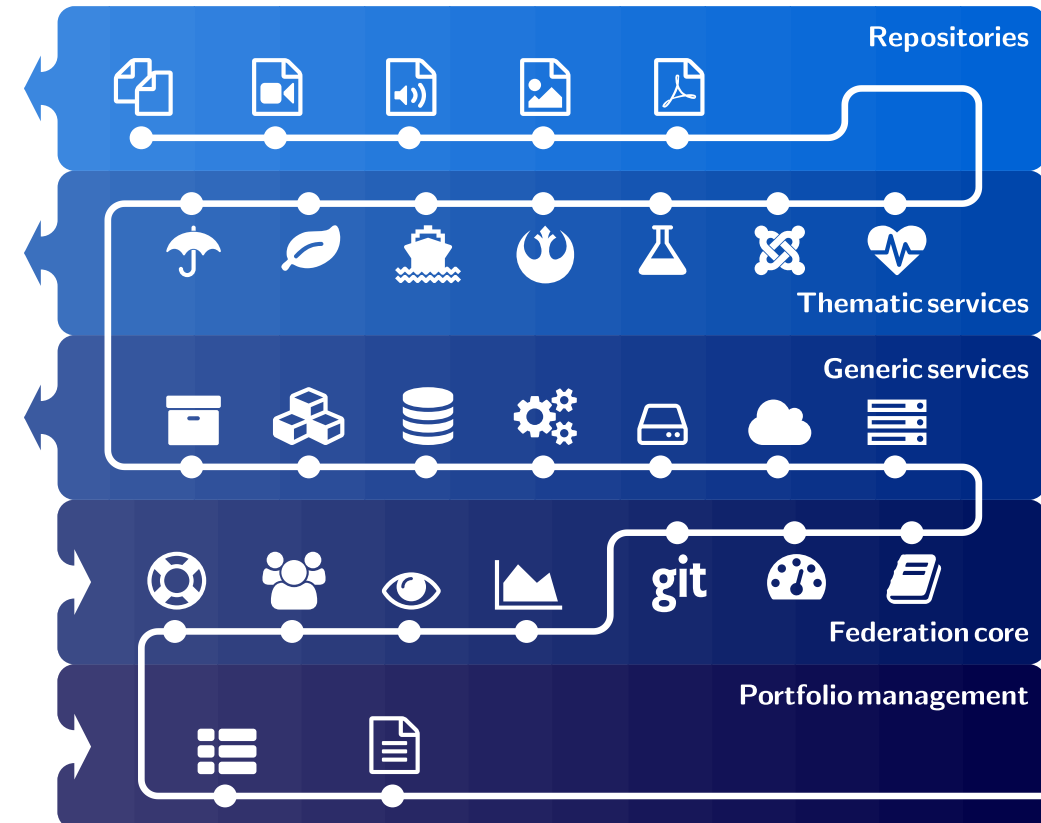
- 1 NI4OS services-related resources
 - 1.1 Pre-production environment
 - 1.1.1 Service portfolio management tool
 - 1.1.2 Configuration Management Database
 - 1.1.3 Authentication & Authorisation Infrastructure (AAI) service
 - 1.1.4 Monitoring service
 - 1.1.5 Training
 - 1.2 Service on-boarding
 - 1.2.1 Categorization
- 2 COVID-19 resources

Below the table of contents, the page lists 'NI4OS services-related resources' and provides links to 'Pre-production environment', 'Service portfolio management tool' (https://agora.ni4os.eu/), 'Configuration Management Database' (https://gocdb.ni4os.eu/portal/), and 'Authentication & Authorisation Infrastructure (AAI) service' (Integration Guide for Service Providers).

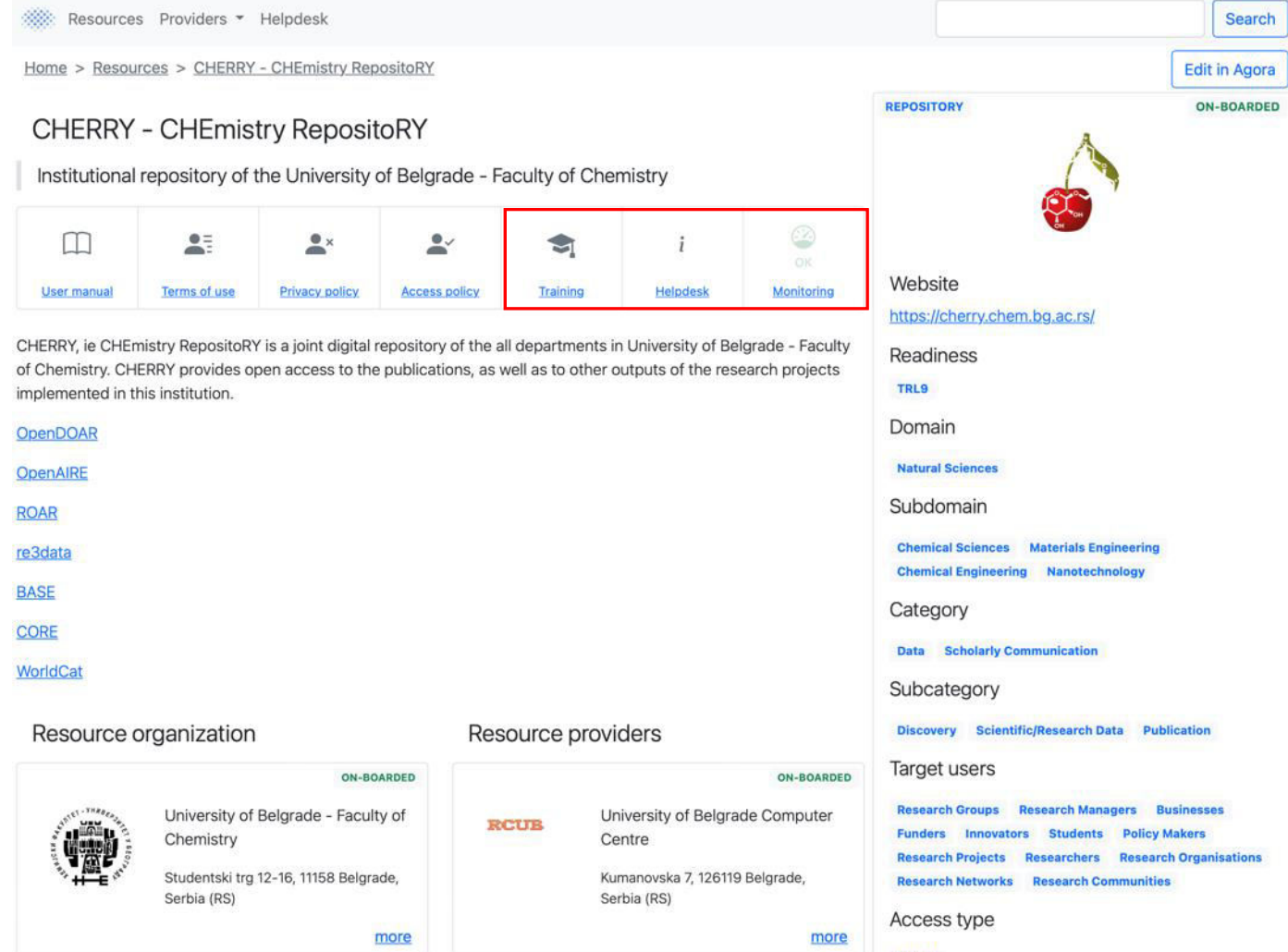
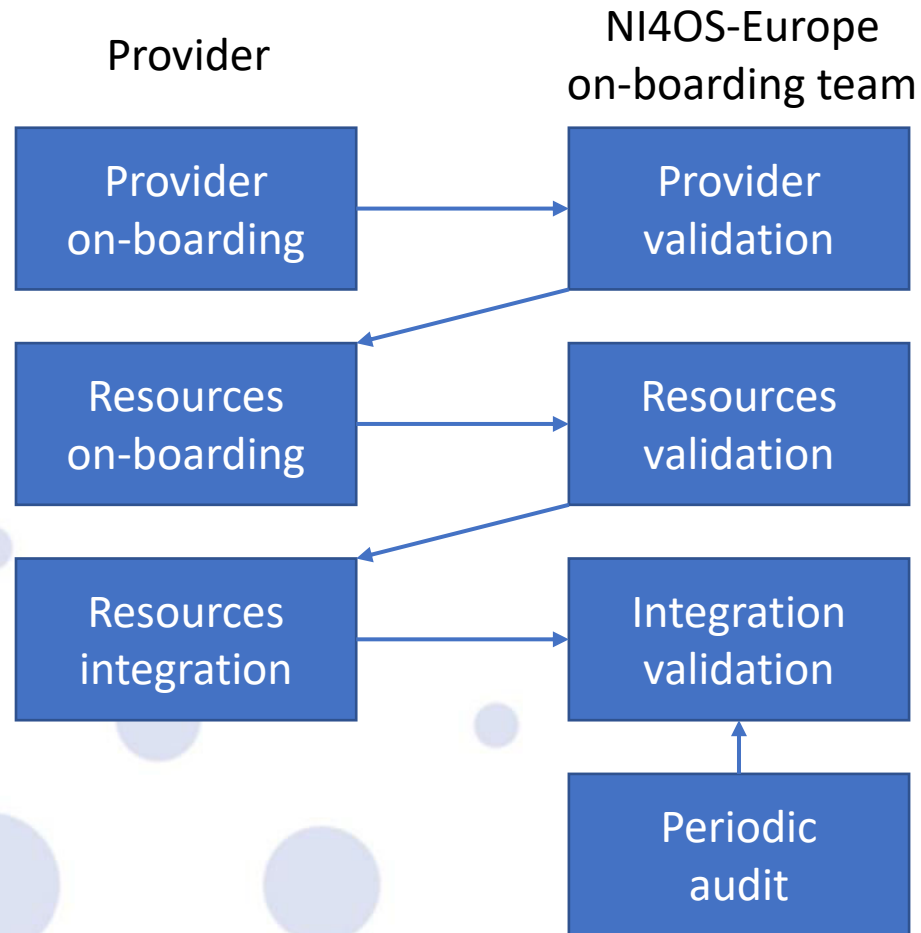
On-boarding



- Integration with federation core services
- Service categorization
- Onboarding of
 - generic services
 - thematic services
 - repositories

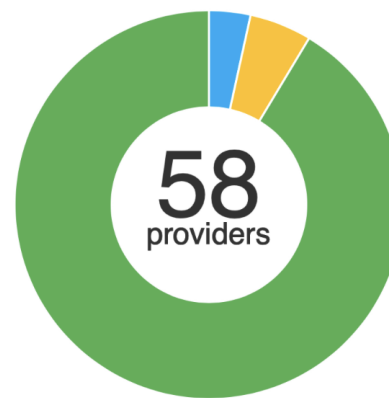
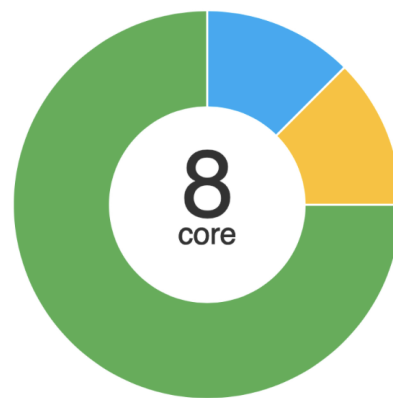
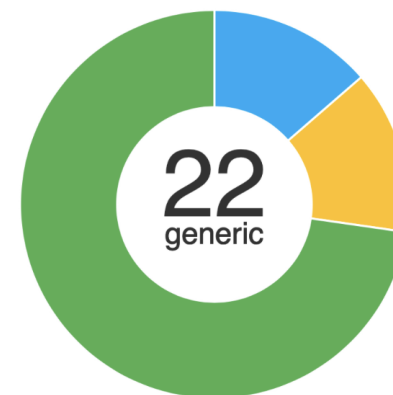
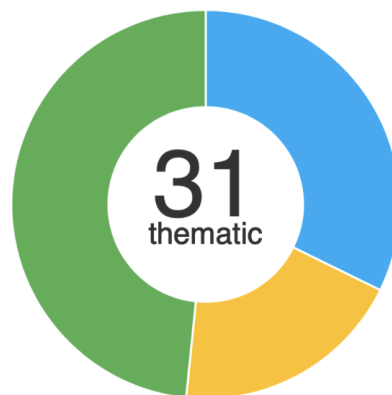


Basic on-boarding workflow: resource integration

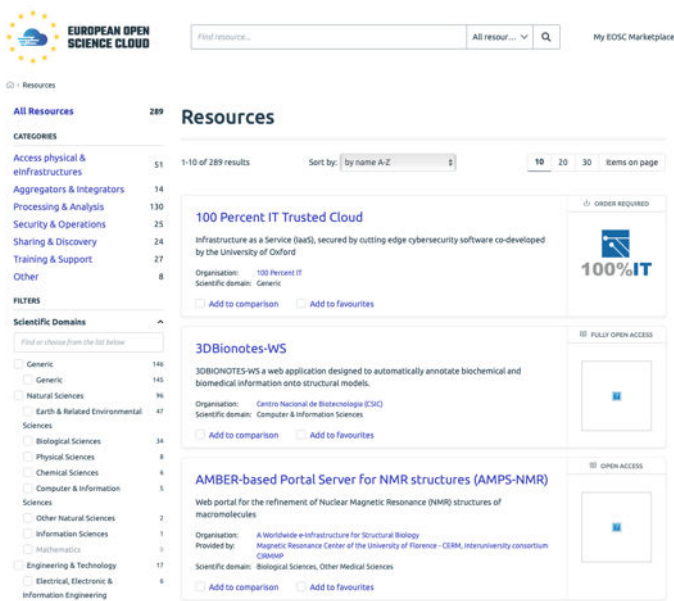


The screenshot shows the website for the CHERRY - CHEmistry Repository. The page title is 'CHERRY - CHEmistry Repository' and the subtitle is 'Institutional repository of the University of Belgrade - Faculty of Chemistry'. The navigation menu includes 'Resources', 'Providers', and 'Helpdesk'. The main content area features a navigation bar with icons for 'User manual', 'Terms of use', 'Privacy policy', 'Access policy', 'Training', 'Helpdesk', and 'Monitoring'. The 'Training' icon is highlighted with a red box. Below the navigation bar, there is a description of the repository and a list of links for 'OpenDOAR', 'OpenAIRE', 'ROAR', 're3data', 'BASE', 'CORE', and 'WorldCat'. The right sidebar contains metadata for the repository, including 'Website', 'Readiness', 'Domain', 'Subdomain', 'Category', 'Subcategory', and 'Target users'. The 'Resource organization' and 'Resource providers' sections are also visible at the bottom of the page.

Dashboard



Integration with the EOSC marketplace



Find resource... All resour... My EOSC Marketplace

Resources

1-10 of 289 results

Sort by: by name A-Z

10 20 30 Items on page

100 Percent IT Trusted Cloud

Infrastructure as a Service (aaS), secured by cutting edge cybersecurity software co-developed by the University of Oxford

Organisation: 100 Percent IT
Scientific domain: Generic

Add to comparison Add to favourites

3DBionotes-WS

3DBIONOTES-WS a web application designed to automatically annotate biochemical and biological information onto structural models.

Organisation: Centro Nacional de Biotecnología (CNB) FULLY OPEN ACCESS
Scientific domain: Computer & Information Sciences

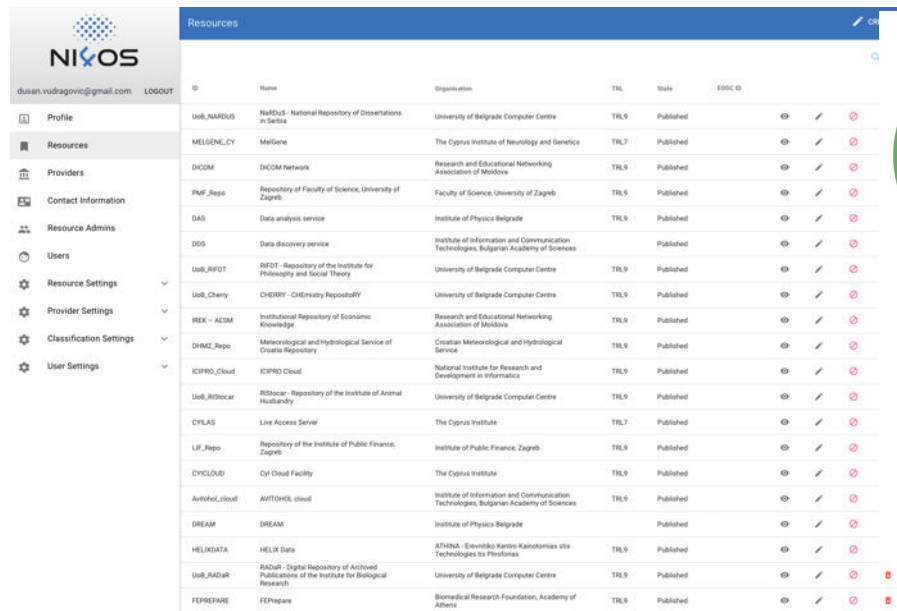
Add to comparison Add to favourites

AMBER-based Portal Server for NMR structures (AMPS-NMR)

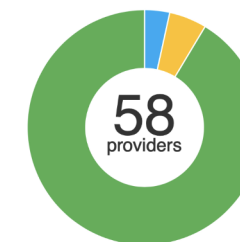
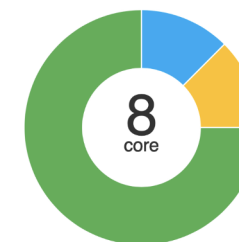
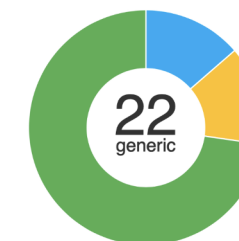
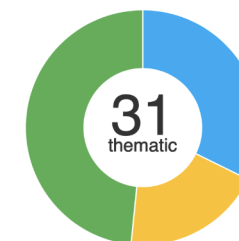
Web portal for the refinement of Nuclear Magnetic Resonance (NMR) structures of macromolecules

Organisation: A Worldwide e-Infrastructure for Structural Biology
Provided by: Magnetic Resonance Center of the University of Florence - CERM, Interuniversity consortium CERNIP OPEN ACCESS
Scientific domain: Biological Sciences, Other Medical Sciences

Add to comparison Add to favourites



ID	Name	Organisation	TRL	Status	EOSC ID
UoB_NARDUS	NARDUS: National Repository of Dissertations in Serbia	University of Belgrade Computer Centre	TRL9	Published	
MELBENE_CY	MelBene	The Cyprus Institute of Neurology and Genetics	TRL7	Published	
DICOM	DICOM Network	Research and Educational Networking Association of Moldova	TRL9	Published	
PMF_Repo	Repository of Faculty of Science, University of Zagreb	Faculty of Science, University of Zagreb	TRL9	Published	
DAS	Data analysis service	Institute of Physics Belgrade	TRL9	Published	
DOS	Data discovery service	Institute of Information and Communication Technologies, Bulgarian Academy of Sciences		Published	
UoB_RIFDT	RIFDT - Repository of the Institute for Philosophy and Social Theory	University of Belgrade Computer Centre	TRL9	Published	
UoB_Cherry	CHERRY - CHerry Repository	University of Belgrade Computer Centre	TRL9	Published	
IREK - ASEM	Institutional Repository of Economic Knowledge	Research and Educational Networking Association of Moldova	TRL9	Published	
DHMZ_Repo	Meteorological and hydrological Service of Croatia Repository	Croatian Meteorological and Hydrological Service	TRL9	Published	
ICPRO_Cloud	ICPRO Cloud	National Institute for Research and Development in Informatics	TRL9	Published	
UoB_RISDocar	RISDocar - Repository of the Institute of Animal Husbandry	University of Belgrade Computer Centre	TRL9	Published	
CYLAS	Line Access Server	The Cyprus Institute	TRL7	Published	
LIF_Repo	Repository of the Institute of Public Finance, Zagreb	Institute of Public Finance, Zagreb	TRL9	Published	
CYCCLOUD	Cy Cloud Facility	The Cyprus Institute	TRL9	Published	
AviSoft_Cloud	AVISOFTS_Cloud	Institute of Information and Communication Technologies, Bulgarian Academy of Sciences	TRL9	Published	
DREAM	DREAM	Institute of Physics Belgrade		Published	
HELIXDATA	HELIX Data	ATHINA - Elenioko Kento-Karantonomes site Technologies to Florinas	TRL9	Published	
UoB_RADAR	RADAR: Digital Repository of Archived Publications of the Institute for Biological	University of Belgrade Computer Centre	TRL9	Published	
FEPREPARE	FEPrepares	Biomedical Research Foundation, Academy of Athens	TRL9	Published	



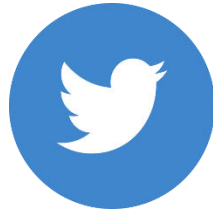
EOSC Portal Catalogue & Marketplace

NI4OS-Europe
AGORA catalogue
<https://agora.ni4os.eu/>

NI4OS-Europe
On-boarding dashboard
<https://catalogue.ni4os.eu/>



NI4OS



NI4OS_eu



NI4OS.eu



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<https://ni4os.eu/contact-us>