



The EuroScienceGateway Journey

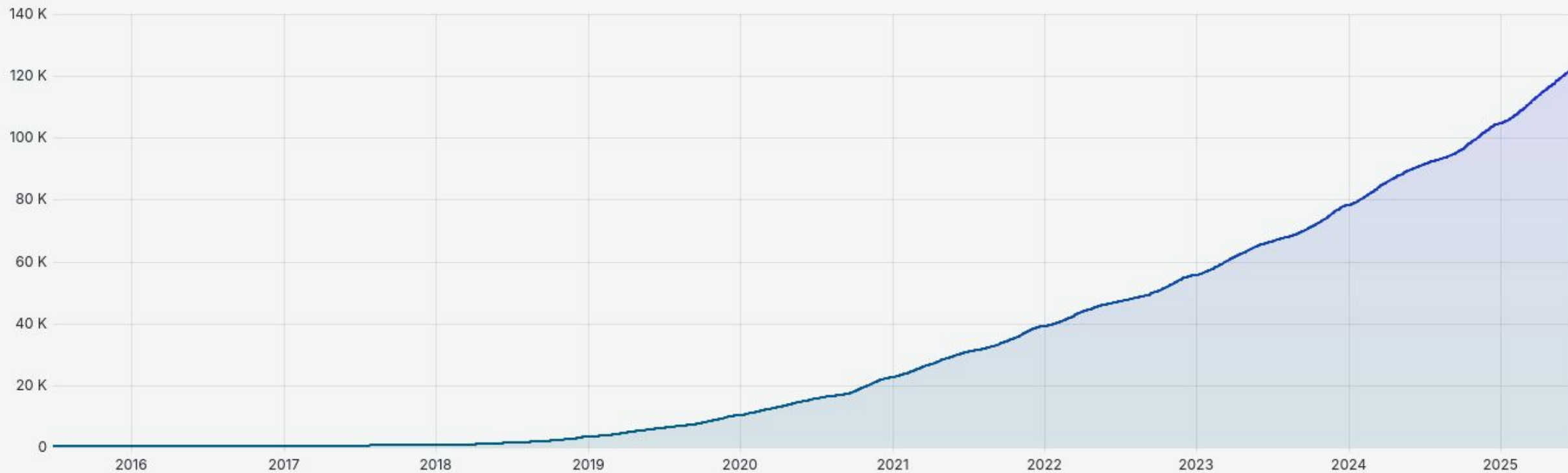
aka a brief history of Galaxy

26 June 2025



Registered user over time

Registered Users Over Time



eosc Registered user over time

Registered Users Over Time



Galaxy is now 20 years old as old as YouTube

eosc Registered user over time

Registered Users Over Time



eosc Registered user over time

Registered Users Over Time



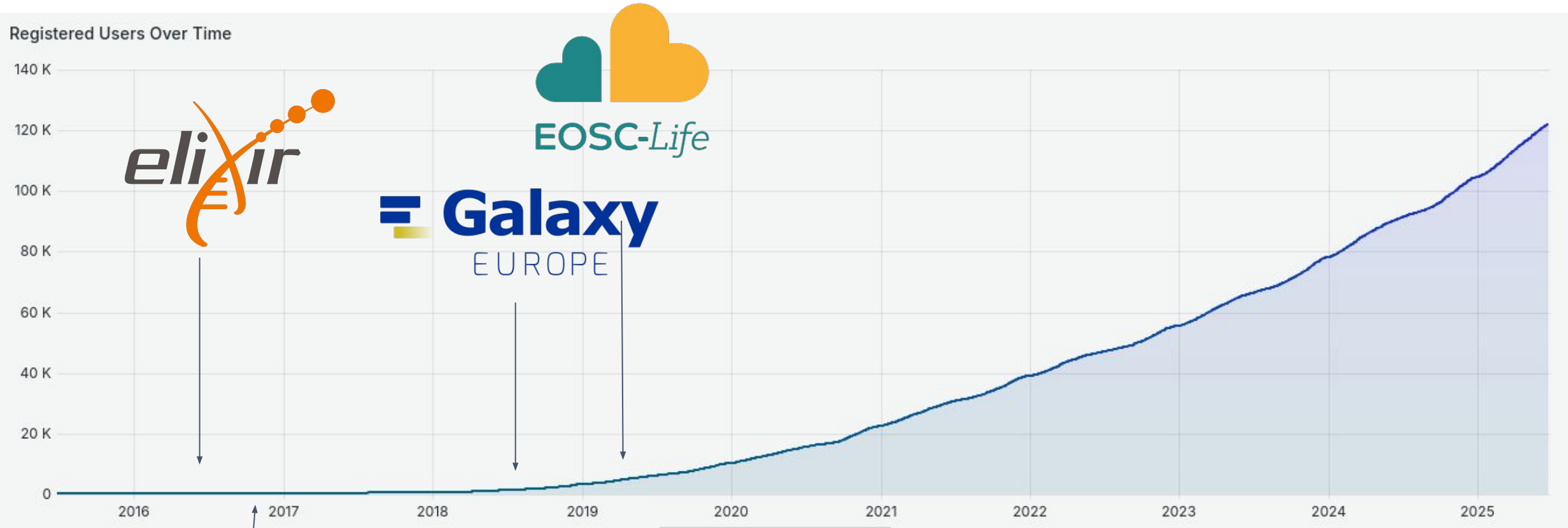
eosc Registered user over time

Registered Users Over Time



700

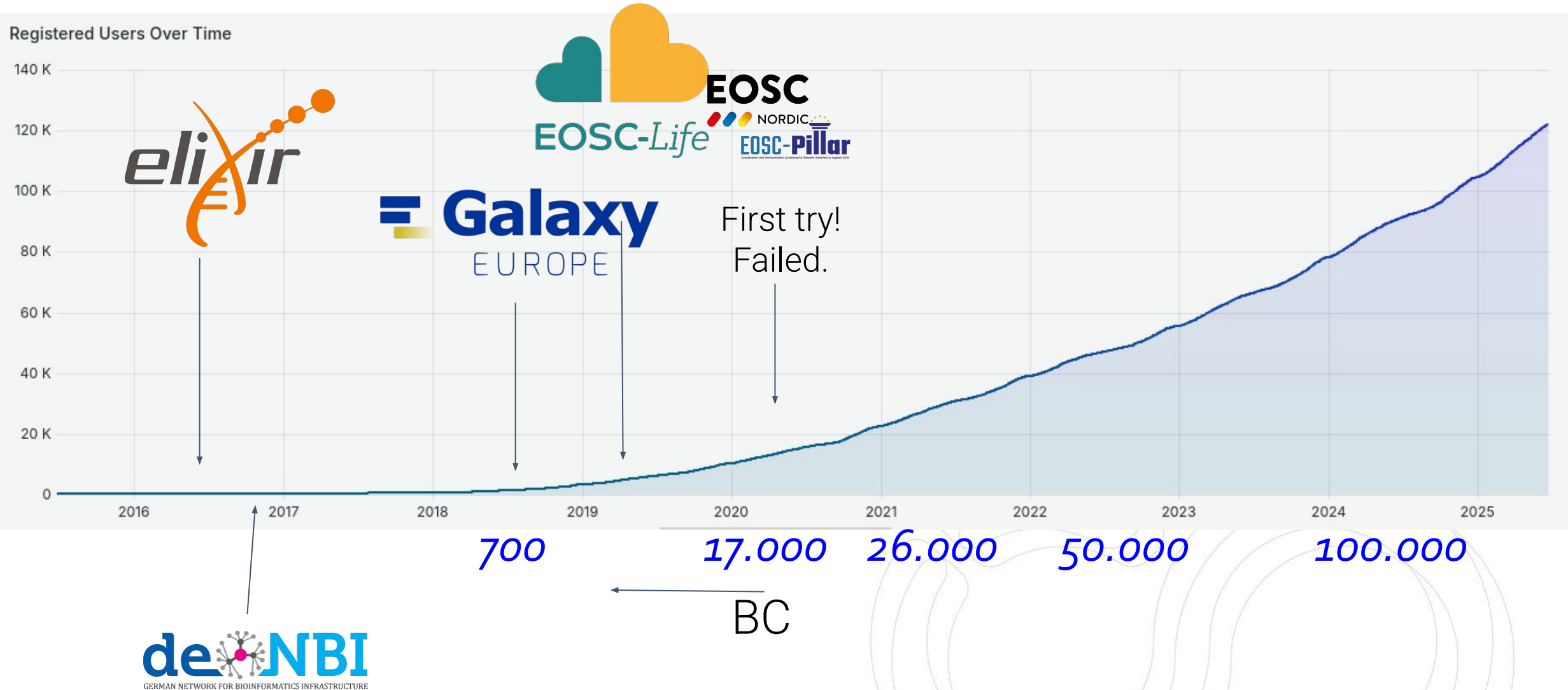
eosc Registered user over time



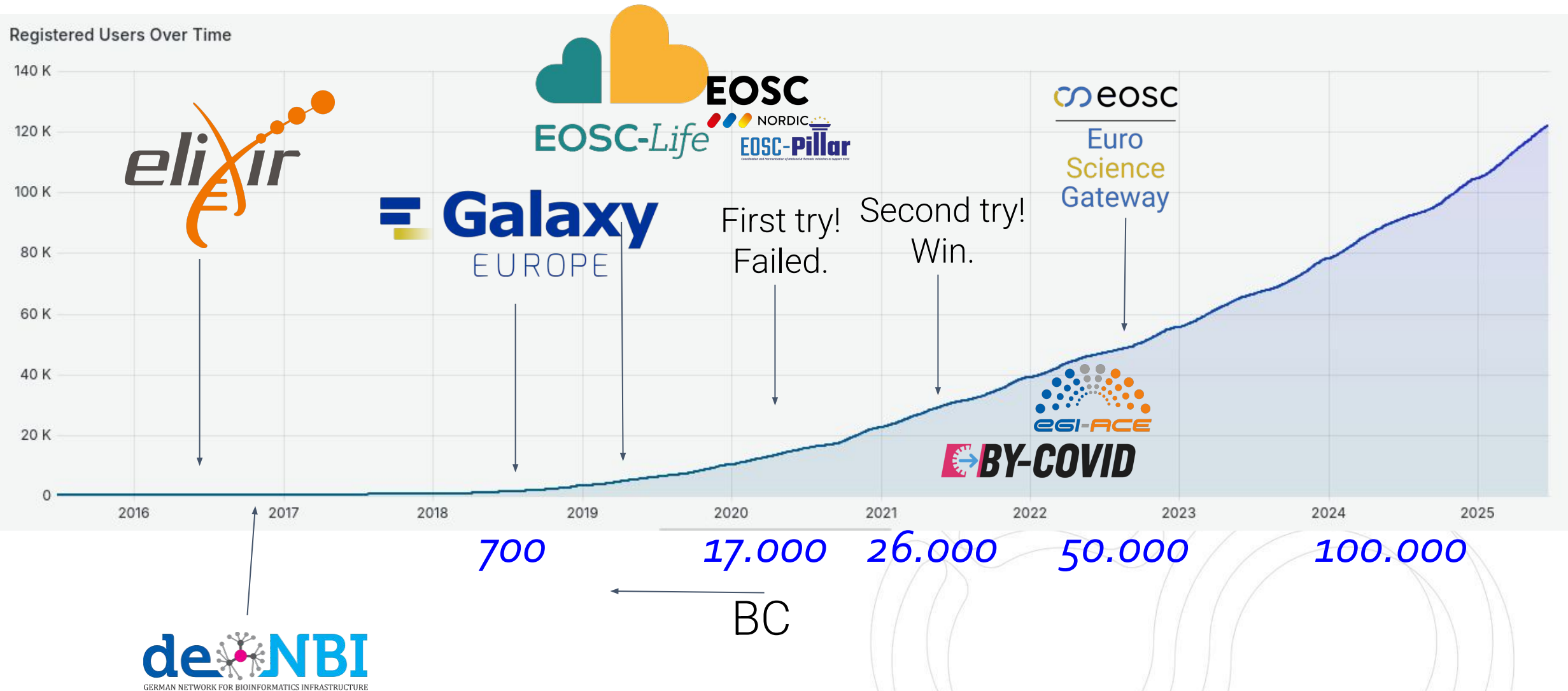
700

BC

eosc Registered user over time



eosc Registered user over time



eosc Compute (BYOC)

usegalaxy.EU → | 99.663% ☺

The most innovative computing centers across Europe are sharing their remote computation power to support the UseGalaxy.* load:

- DE, de.NBI cloud
- IT, ReCaS-Bari
- BE, Vlaams Supercomputer Centrum (VSC)
- PT, Tecnico ULisboa
- ES, Barcelona Supercomp. Center (INB-BSC)
- NO, University of Bergen
- CZ, CESNET
- FI, CSC
- UK, Diamond Light Source
- FR, GenOuest

<https://pulsar-network.readthedocs.io/en/latest/project/partners.html>



eosc Data (BYOD, BYOS)

— User Preferences / My Repositories / Create New

Select file source option to create new sources. These options are configured by your Galaxy administrator.

Display:  

Onedata

If you have an Onedata account, you can use this repository t...

Show more ▼

Select

Amazon Web Services Private Bucket

Setup access to a private AWS bucket using a secret access k...

Select

Amazon Web Services Public Bucket

Setup anonymous access to a public AWS bucket.

Select

Azure Blob Storage

Setup access to your Azure Blob Storage.

Select

B2DROP by BSC

B2DROP is a Nextcloud to sync and share your research data ...

Select

B2DROP by EUDAT

B2DROP is a Nextcloud to sync and share your research data ...

Select

Dropbox

Connect to your Dropbox account to download and upload files.

Select

eLabFTW

eLabFTW is a free and open source electronic lab notebook f...

Show more ▼

Select

FTP Server

Setup connections to FTP and FTPS servers to download and...

Select

Google Drive

This file source allows export to your Google Drive and impor...

Show more ▼

Select

InvenioRDM

InvenioRDM is a research data management platform that all...

Show more ▼

Select

RSpace

RSpace is an electronic lab notebook (ELN) designed for doc...

Show more ▼

Select

S3 Compatible repositories with Credentials

The APIs used to connect to Amazon's S3 (Simple Storage S...

Show more ▼

Select

WebDAV (e.g. Nextcloud, Owncloud, Openclou...

The WebDAV protocol is a simple way to access files over the...

Select

Zenodo

Zenodo is an open-access repository for research data, softw...

Show more ▼

Select

eosc Data catalogue and VREs

Galaxy Europe Using 438.9 GB nllchla

Invoked Workflow: Multisample Batch Correction with SnapATAC2 and Harmony (Version: 1) Run Rerun

invoked 2 months ago 32 of 32 steps successfully scheduled. 61 of 61 jobs complete. workflow runs: 8

History: Copy of 'Multisample Batch Correction with Harmony and SnapATAC2'

Overview Steps Inputs Outputs Report Export Metrics

Click on a step in the workflow graph above to view its details.

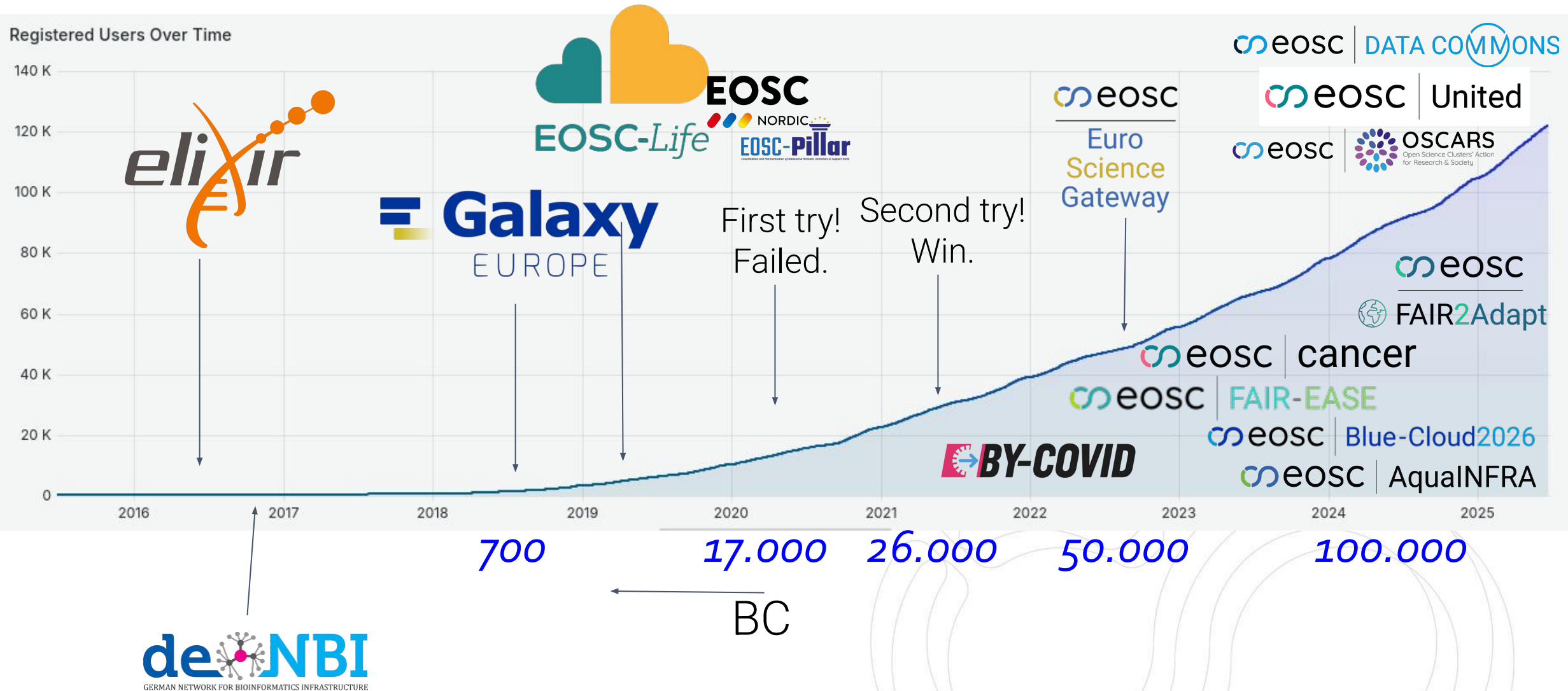
Interactive Tools

Launch and manage interactive tools

Search interactive tools

- Interactive JupyterLab Notebook**
- RStudio**
R 4.4.2 with Bioconductor 3.20
- Interactive CELLxGENE Environment**
- Interactive CELLxGENE VIP Environment**
- iSEE**
- zeppelin**
Zeppelin Notebook
- Interactive Source Notebooks**
Sea Observations Utility for Reprocessing, Calibration and Evaluation
- Run Napari**
interactive tool
- AnyLabeling Interactive**
Effortless data labeling with AI support from YOLO and Segment Anything!
- BellaVista Interactive**
Visualization for Imaging-

eosc Registered user over time



Voronoi segmentation

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Reviewers    

Overview

Questions:

- How do I partition an image into regions based on which object they are nearest to (Voronoi segmentation)?
- How should images be preprocessed before applying Voronoi segmentation?
- How can I overlay two images?
- How can Voronoi segmentation be used to analyze spatial relationships?
- How can extracted image properties be used to categorize identified objects?

Objectives:

- How to perform Voronoi Segmentation in Galaxy.
- How to extract a single channel from an image.
- How to overlay two images.
- How to count objectives in a layer map.

Requirements:

- [Introduction to Galaxy Analyses](#)
- [Hands-on: FAIR Bioimage Metadata](#)
- [Hands-on: REMBI - Recommended Metadata for Biological Images - metadata guide](#)
- [Hands-on: Introduction to Image Analysis using Galaxy](#)

⌚ Time estimation: 1 hour

Supporting Materials:

[Datasets](#) [Workflows](#) [FAQs](#) [Available on these Galaxies](#)

📅 Published: May 13, 2025

📅 Last modification: May 27, 2025

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🌐 PURL: <https://gxy.io/GTN:T00534>

🔄 Revision: 3

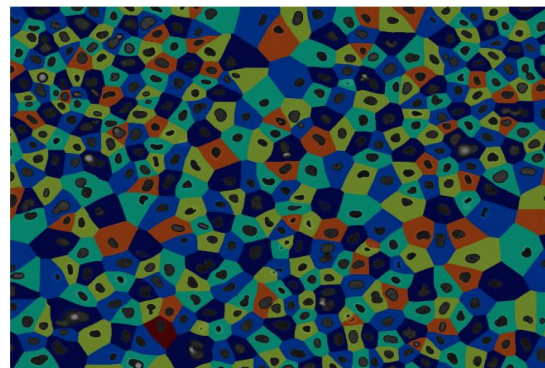
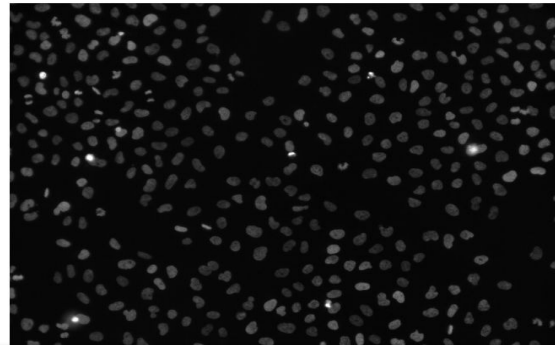


Figure 2: Segmented cell image.

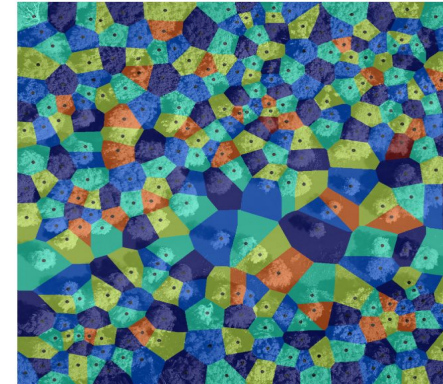


Figure 4: Segmented tree crown image.

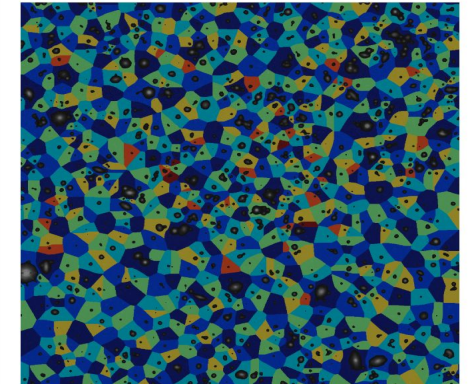
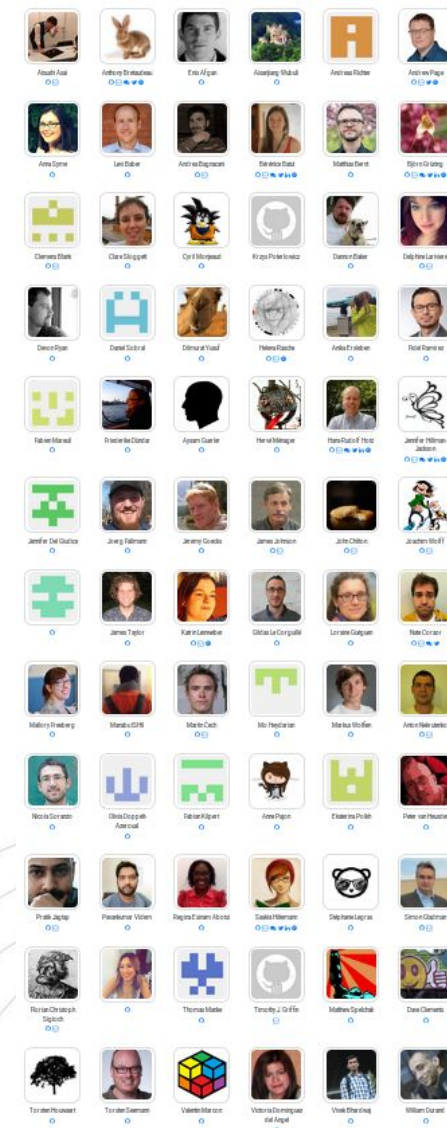
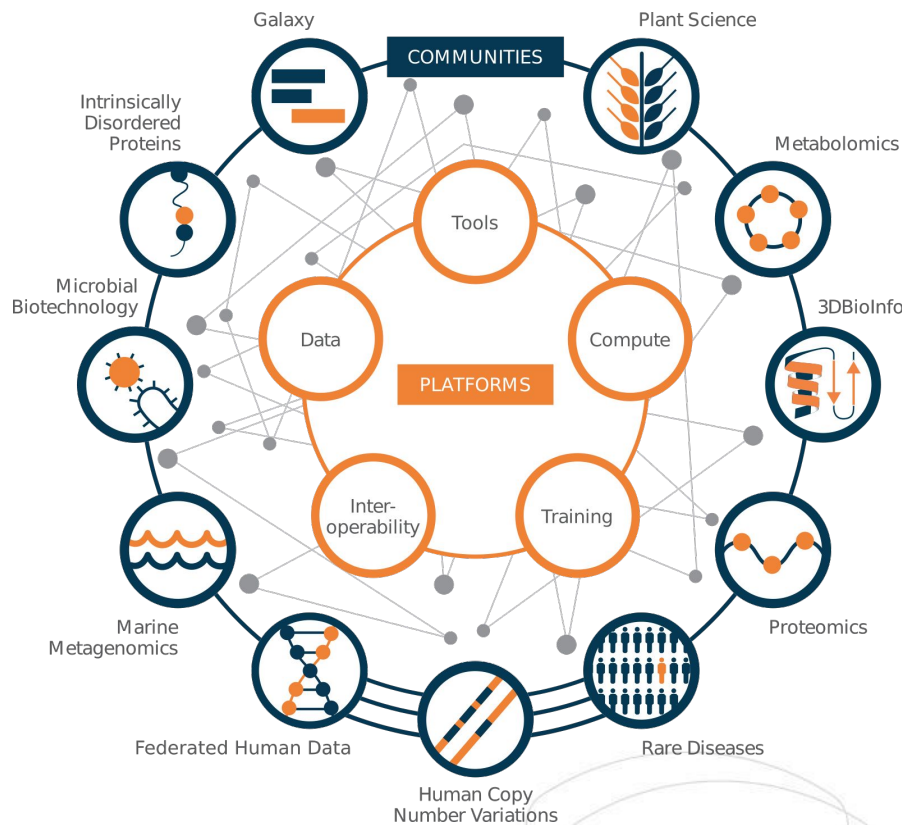


Figure 6: Segmented sky image.

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A world map with a light blue background and white landmasses. Three orange curved arrows connect the three Galaxy logos: one from the Main logo to the Europe logo, one from the Europe logo to the Australia logo, and one from the Australia logo back to the Main logo. Each logo consists of a stylized equals sign icon followed by the word 'Galaxy' and a region name below it.

= Galaxy
Main

= Galaxy
EUROPE

= Galaxy
AUSTRALIA