

EDAM ontology; tools and infrastructure


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EDAM is an ontology of **data analysis** and **data management**, within and beyond life sciences. It comprises concepts related to data analysis, modelling, optimisation, and data life cycle.

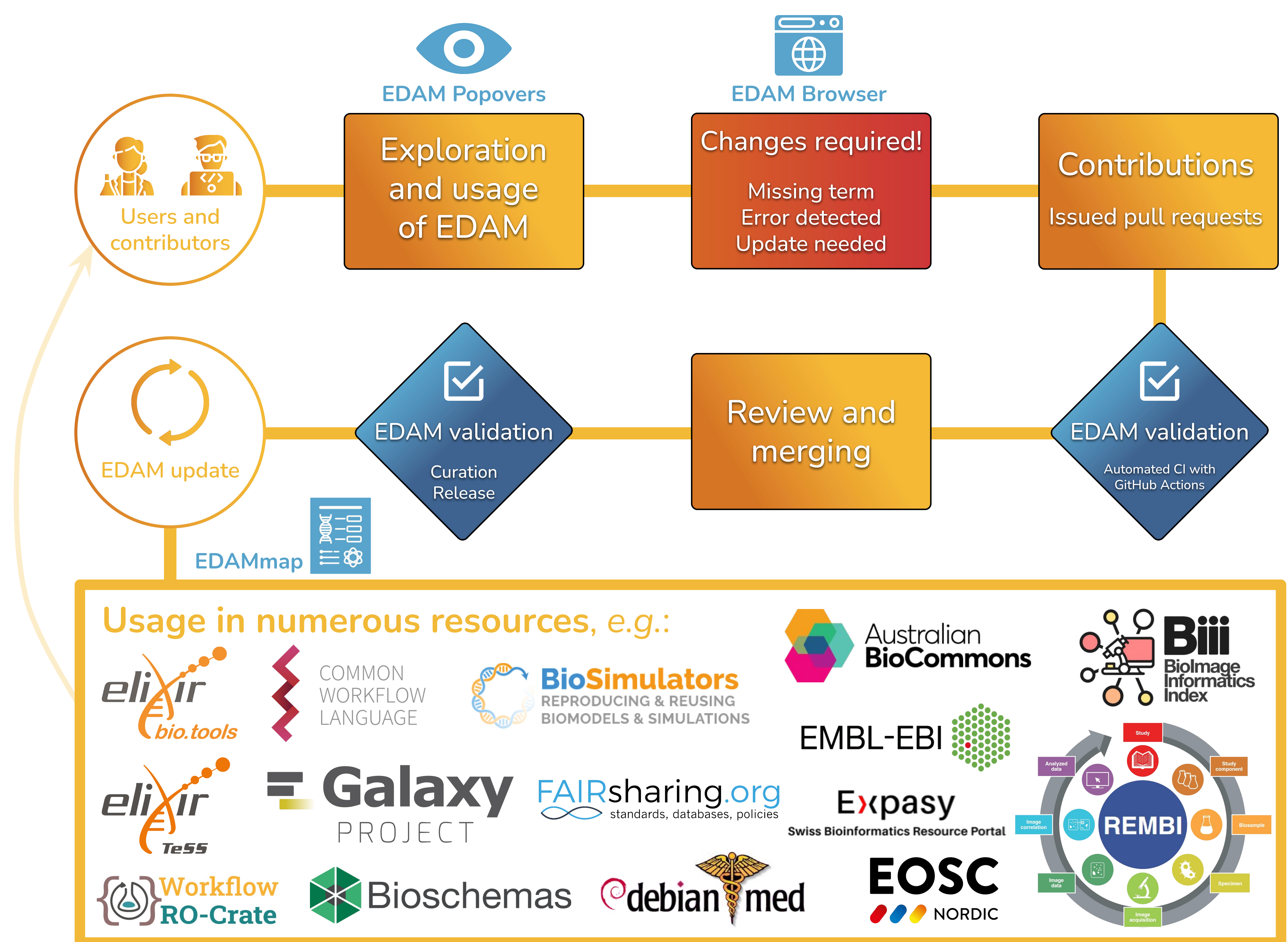
EDAM is developed in a *participatory* and *transparent* fashion, within a broad and growing *community of contributors* from both inside and outside of ELIXIR.

Community extensions of EDAM are:

 **EDAM Bioimaging** (including machine learning)

 **EDAM Geo** for interdisciplinary applications, such as global and planetary health

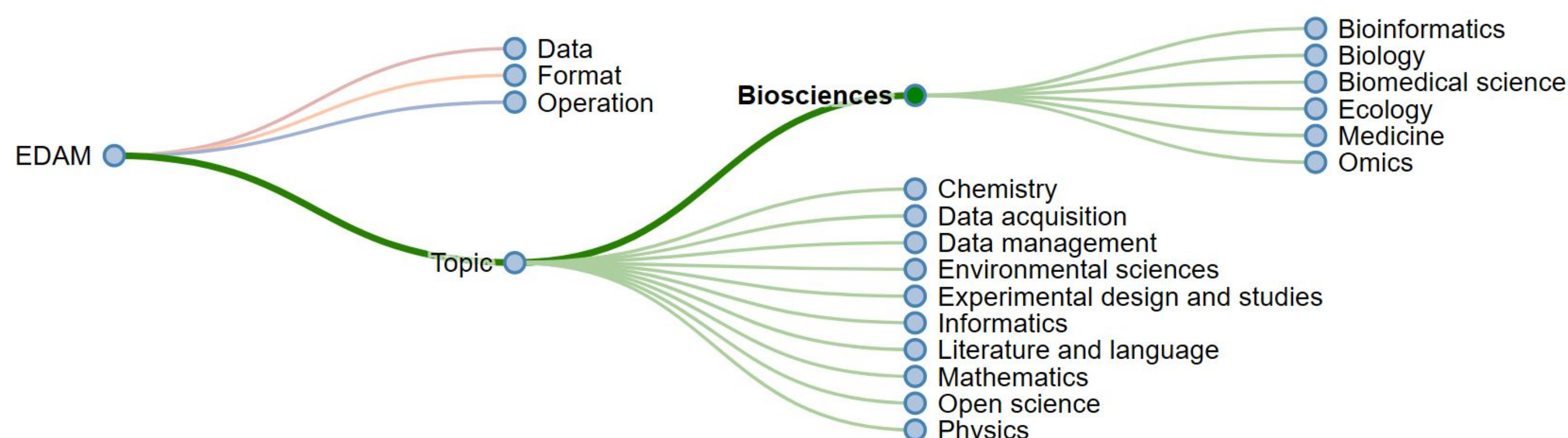
The community-driven development comes with a set of *challenges*.



To help the community use and contribute to EDAM, a set of tools are provided:

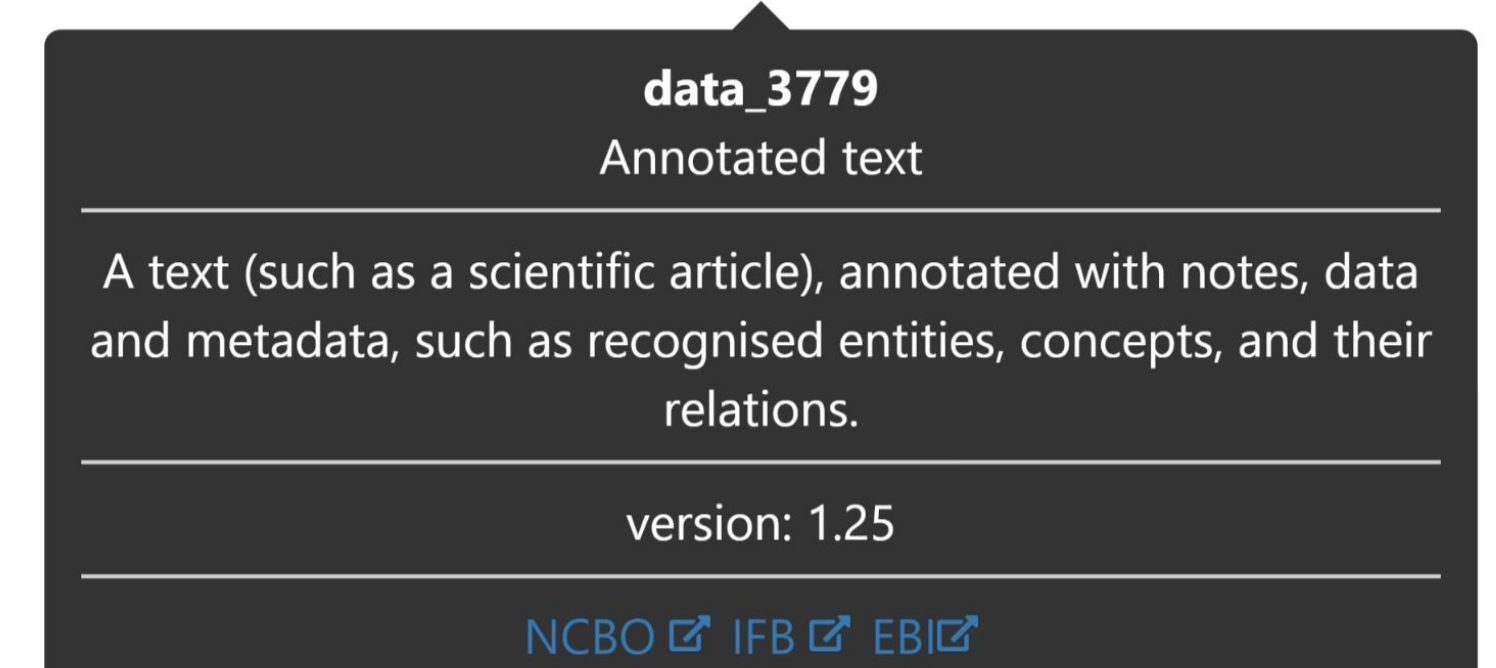
EDAM Browser

A web interface that lets users **explore EDAM** and its usage graphically. It also allows contributors to **submit a suggestion** to the GitHub repository using a graphical user interface.



EDAM Popovers

A web-browser extension showing details of EDAM concepts selected in any website.



EDAM validation

The quality-control tooling includes standard tools such as **HermiT** and **ROBOT**, plus a custom validator working on both the syntactic and semantic levels. The validation tools are integrated in **continuous integration (CI)** workflows, using GitHub Actions. Additional tests are available for **curation**.

EDAMmap

A tool for **text mining** EDAM ontology concepts from natural language text, such as published scientific articles.

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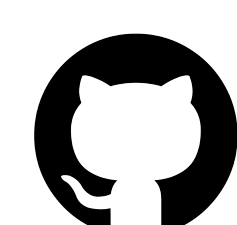
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[edamontology](https://github.com/edamontology)



[@edamontology](https://twitter.com/edamontology)

