



Project logo, marketing pack and website design and development

Deliverable D3.1

30 July 2021

Authors

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Pensoft Publishers Ltd.

BiCIKL

BIODIVERSITY COMMUNITY INTEGRATED KNOWLEDGE LIBRARY



This project receives funding from the European Union's Horizon 2020 Research and Innovation action under grant agreement No 101007492.

Start of the project:	May 2021
Duration:	36 months
Project coordinator:	Prof. Lyubomir Penev Pensoft Publishers
Deliverable title:	Project logo, marketing pack and website design and development
Deliverable n°:	D3.1
Nature of the deliverable:	Report
Dissemination level:	Public
WP responsible:	WP3
Lead beneficiary:	Pensoft Publishers
Citation:	Peneva, S., Hristova, K., Sapundzhieva, A., Barov, B., Stoev, P., Grudova, M. & Kostadinova, I. (2021). <i>Project logo, marketing pack and website design and development</i> . Deliverable D3.1. EU Horizon 2020 BiCIKL Project, Grant Agreement No 101007492.
Due date of deliverable:	Month 3
Actual submission date:	30 July 2021

Deliverable status:

Version	Status	Date	Author(s)
1.0	Draft	26 July 2021	Pensoft
1.0	Submission	30 July 2021	Pensoft

The content of this deliverable does not necessarily reflect the official opinions of the European Commission or other institutions of the European Union.

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Summary

This document presents BiCIKL's recognizable visual identity, including the project logo, visual identity guide, brochure, poster, document, presentation templates and website design and functionality developed in the first three months. These materials will ensure that BiCIKL is communicated effectively and professionally with the aim to raise awareness and build a community from the start of the project.

The modern and user-friendly public website (bicikl-project.eu) provides an easy-to-navigate, continuously updated platform allowing fast access to general information about BiCIKL and its activities, operating on several levels. It also prominently features the participating project partners and Research Infrastructures and their extensive service portfolio.

1. Project logo and branding

1.1. Visual Identity Guide

A Visual Identity Guide was developed to provide all essential graphic guidelines and it serves as a reference for all project partners. It aims to ensure consistency and cohesion in the way the project and its outputs are presented through means of slides, project documents, promotional materials and others.

The Visual Identity Guide includes information about:

- BiCIKL logo
- Fonts
- Colour palette
- Visuals
- Project branding

The full version of the BiCIKL Visual Identity Guide is enclosed in Annex 1 of this deliverable.

1.2. Project logo

The project logo aims to help external audiences to easily identify the BiCIKL project. It conveys the idea of a gearwheel and a smooth transition of flows of information and data between differently coloured research infrastructures representing separate but connected entities. The cycle epitomises the core idea of the project: BiCIKL partners will solidify open science practices by providing access to data, associated tools and services at each stage of, and along the entire research and data life cycle (of biodiversity related disciplines).

The logo is the foundation of the project visibility by providing a corporate identity from the very start of the project. The logo is available to the consortium in different formats for branding of electronic and physical promotional materials.

For better visual representation across different settings and marketing purposes of BiCIKL, the project logo was developed in two versions – a short horizontal version (Fig. 1) and a full horizontal version (Fig. 2), which includes the full name of the project. Each version could be used in colour, black, white or a mix of coloured and white modifications.

A variety of vector (.esp, .svg) and raster (.png, .jpg) formats was created to make sure partners can find a suitable version regardless of the type of material they need it for.

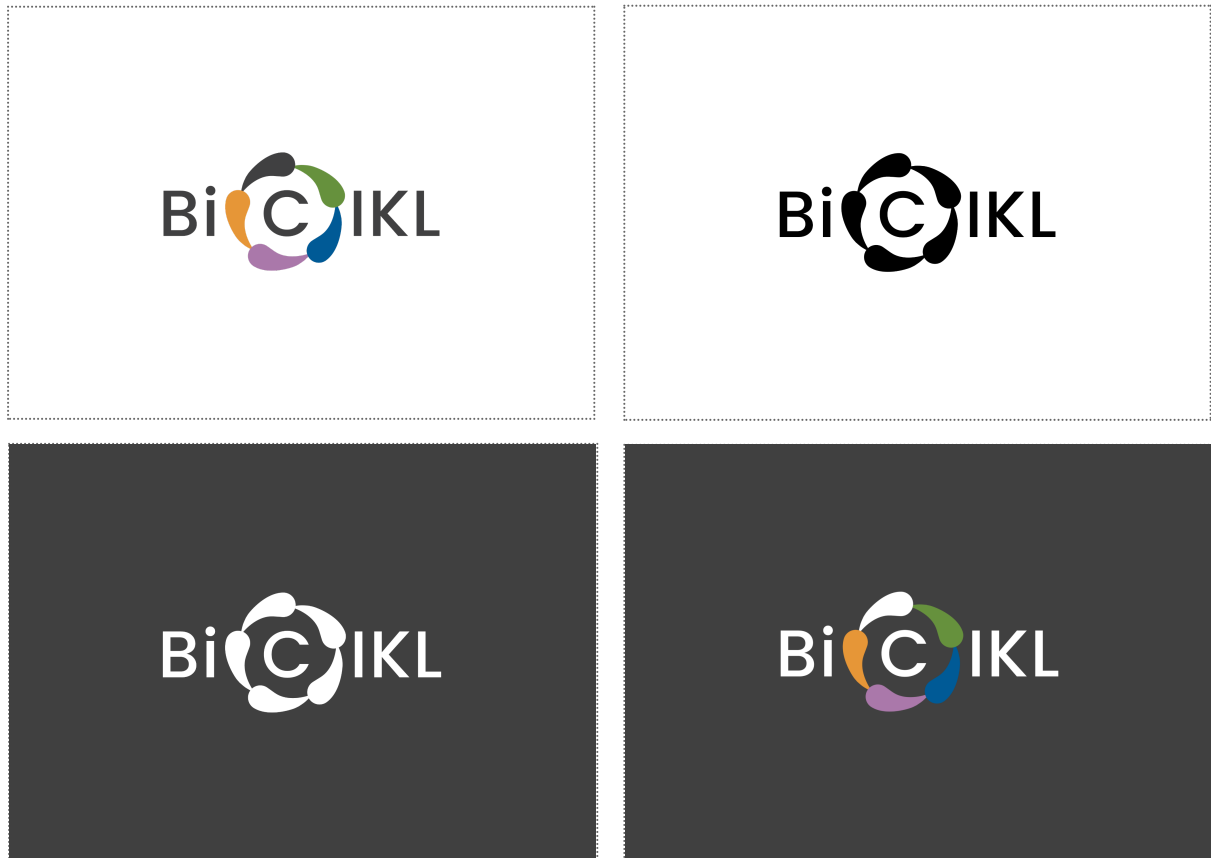


Fig. 1 *BiCIKL logo short horizontal version in colour, black, white and a mix of coloured and white modifications.*



Fig. 2 BiCIKL logo full horizontal version in colour, black, white and a mix of coloured and white modifications.

1.3. Project branding templates

At the very beginning of the project, a package of project branding templates was compiled to make sure all partners present the project in a consistent and recognisable way.

The set of templates includes the following documents:

- Deliverable report
- Milestone report
- Letterhead template for official project letters
- Two versions of a PowerPoint presentation (Fig. 3)



Fig. 3 *BiCIKL presentation templates.*

Each template is specifically tailored to the purpose and contents of the document it defines. The templates are well-formatted and easy to use by all partners. All the templates incorporate the BiCIKL project logo and the recommended document structure.

They also feature the required visual recognition of EU funding following the [EU Visual Identity Manual](#).

The set of templates is available to download through Teamwork (the project management platform which the BiCIKL partners use to manage tasks, communicate internally and store files).

2. Marketing pack

Along with the project logo and website, the BiCIKL project brochure and poster were designed as an integral part of the branding pack. Both documents are available as ready to print electronic files (in PDF format) and will not be centrally printed, to save paper, storage and distribution costs.

2.1. BiCIKL poster

The poster (Fig. 4) is a combination of visual and textual introduction to the project's scope and the BiCIKL consortium. The poster features persuasive visual elements, along with bullet points of brief copy to capture the attention of the different target groups and increase project awareness.

After constructive discussions and improvements, based on consortium comments, the final version of the poster is available for downloading on Teamwork and the project website.

BiCIKL bicikl-project.eu @BiCikl_H2020

Biodiversity Community Integrated Knowledge Library

We connect infrastructures to enable researchers to access services across the biodiversity data lifecycle

14 Project partners | 10 European countries | 3 Years duration | 15 Research infrastructures

Mission
BiCIKL will catalyse a culture change in the way biodiversity data is identified, linked, integrated and re-used across the research cycle. We will cultivate a more transparent, trustworthy and efficient research ecosystem.

Vision
BiCIKL will launch a new European starting community of key research infrastructures, researchers, citizen scientists and other stakeholders in the biodiversity and life sciences based on open science practices through access to data, tools and services.

Results
BiCIKL is building the Biodiversity Knowledge Hub (BKH) - a single knowledge portal to interlinked and machine-reusable FAIR data (Findable, Accessible, Interoperable and Reusable) using unique stable identifiers on specimens, genomics, observations, taxonomy and publications.

Objectives

- Findable**
Ensure seamless discoverability of data through globally unique identifiers exposed to individual and federated search engines, including artificial intelligence, from each participating infrastructure and across data domains.
- Accessible**
Provide, facilitate, support and scale-up open access to FAIR interlinked data liberated from literature, natural history collections, sequence archives and taxonomic nomenclatures in both human-readable and machine-actionable formats.
- Interoperable**
Harmonise the existing standards, metadata, policies and technologies to develop new ones (where necessary), in order to provide and ingest FAIR data, thereby ensuring standard-aligned interlinking.
- Re-usable**
Optimise the reusability and reproducibility of complex datasets, assembled together from different biodiversity-related domains and their supporting infrastructures, for the generation of novel research hypotheses and new knowledge.

Products

- Research tools**
Interlinked corpora of knowledge, tools and services used by research groups in biodiversity-linked sciences and related areas.
- Interlinked knowledge**
A vibrant community equipped with novel research tools for search and access to interlinked data across domains.
- Text and data mining**
Automated text and data mining workflows for extraction, XML and RDF conversion, semantic enhancement, management, dissemination, and re-use of highly valuable data linked to legacy literature.
- Semantic publishing**
Semantics-based authoring tool to be integrated via JATS XML and API within journal production workflows, thereby benefiting the field of biodiversity, but also remaining available for adoption by other communities.
- FAIR Data Place (FDP)**
A central tool for search, discovery and management of interlinked FAIR data across different domains.
- Biodiversity Knowledge Hub (BKH)**
A central, one-stop portal, providing access to the BiCIKL services, tools and workflows, beyond the lifetime of the project.

This project receives funding from the European Union's Horizon 2020 Research and Innovation action under grant agreement No 101017492

Fig. 4 BiCIKL poster.

2.2. BiCIKL brochure

An eye-catching brochure (Fig. 5), introducing the project's aim, objectives and project partners, and illustrating the expected outcomes with interactive icons was produced to complement the poster at conferences, meetings and stakeholder events (available on Teamwork and BiCIKL website).

Partners

- Pensoft Publishers (PENSOFT), Bulgaria
- Stichting Naturalis Biodiversity Center (NATURALIS), Netherlands
- Plazi GMBH (PLAZI), Switzerland
- Agentschap Plantentuin Meise (MeiseBO), Belgium
- European Molecular Biology Laboratory (EMBL-EBI), Germany
- European Organization for Nuclear Research (CERN), Switzerland
- Consortium of European Taxonomic Facilities (CETAF), Belgium and Institut national d'histoire naturelle (MNHN, associated party to CETAF), France
- SIB Institut Suisse De Bioinformatique (SIB), Switzerland
- Tartu Ülikool (TARTU), Estonia
- E-Science European Infrastructure for Biodiversity and Ecosystem Research (LUBEWAC), Spain
- Freie Universität Berlin (FUB-BGBM), Germany
- Global Biodiversity Information Facility (GBIF), Denmark
- SPECIES 2000 (sp2000), United Kingdom
- Stichting International Working Group On Taxonomic Database (TDWG), Netherlands

Keywords

Biodiversity, genomics, research cycle, research ecosystem, research infrastructures, FAIR interlinked data, data mining, semantic publishing, data lifecycle, data operation training

Consortium

14 partners from 10 European countries

Duration

May 2021 – April 2024

Project Coordinator

Prof. Lyubomir Penev
Pensoft Publishers
lpenev@pensoft.net

Website

bicikl-project.eu

Twitter

@Bicikl_H2020

BiCIKL

Biodiversity Community Integrated Knowledge Library

We connect infrastructures to enable researchers to access services across the biodiversity data lifecycle

bicikl-project.eu

This project receives funding from the European Union's Horizon 2020 Research and Innovation action under grant agreement No 1011007492

Background

Mission

BiCIKL will catalyse a culture change in the way biodiversity data is identified, linked, integrated and re-used across the research cycle. We will cultivate a more transparent, trustworthy and efficient research ecosystem.

Vision

BiCIKL will launch a new European starting community of key research infrastructures, researchers, citizen scientists and other stakeholders in the biodiversity and life sciences based on open science practices through access to data, tools and services.

Results

BiCIKL is building the Biodiversity Knowledge Hub (BKH) – a single knowledge portal to interlinked and machine-readable FAIR data (Findable, Accessible, Interoperable and Reusable) using unique stable identifiers on specimens, genomics, observations, taxonomy and publications.

Objectives

Findable

Ensure seamless discoverability of data through globally unique identifiers exposed to individual and federated search engines, including artificial intelligence, from each participating infrastructure and across data domains.

Accessible

Provide, facilitate, support and scale-up open access to FAIR interlinked data liberated from literature, natural history collections, sequence archives and taxonomic nomenclators in both human-readable and machine-actionable formats.

Interoperable

Harmonize the existing standards, metadata, policies and technologies to develop new ones (where necessary), in order to provide and ingest FAIR data, thereby ensuring standard-aligned interlinking.

Re-usable

Optimise the reusability and reproducibility of complex datasets, assembled together from different biodiversity-related domains and their supporting infrastructures, for the generation of novel research hypotheses and new knowledge.

Products

Research tools

Interlinked corpora of knowledge, tools and services used by research groups in biodiversity science and related areas.

Interlinked knowledge

A vibrant community equipped with novel research tools for search and access to interlinked data across domains.

Text and data mining

Automated text and data mining workflows for extraction, XML and RDF conversion, semantic enhancement, management, dissemination, and re-use of highly valuable data linked to legacy literature.

Semantic publishing

Semantics-based authoring tool to be integrated via JATS XML and API within journal production workflows, thereby benefiting the field of biodiversity, but also remaining available for adoption by other communities.

FAIR Data Place (FDP)

A central tool for search, discovery and management of interlinked FAIR data across different domains.

Biodiversity Knowledge Hub (BKH)

A central, one-stop portal, providing access to the BiCIKL services, tools and workflows, beyond the lifetime of the project.

bicikl-project.eu

Fig. 5 BiCIKL brochure.

3. Project website

The official website of BiCIKL (bicikl-project.eu) was designed to act as an information hub about the project's vision, objectives, activities and results. The website serves as a principle public dissemination tool and already makes the first submitted public deliverables and materials available to a wider audience.

The website's easy-to-navigate main menu includes the following pages:

- Homepage

The Homepage (Fig. 6) aims to catch the attention of first-time visitors by summarizing the core essence of the project, participating Research Infrastructures, latest news and upcoming events.

BiCIKL's key numbers (14 partners from 9 European countries and 15 Research Infrastructures are involved in a 3 years project) are illustrated with interactive visual elements.

By featuring the Research Infrastructures on the Homepage, users can easily identify who stays behind the project.

The Latest Tweets and Social Media icons welcome website visitors to easily follow BiCIKL's Facebook and Twitter accounts.

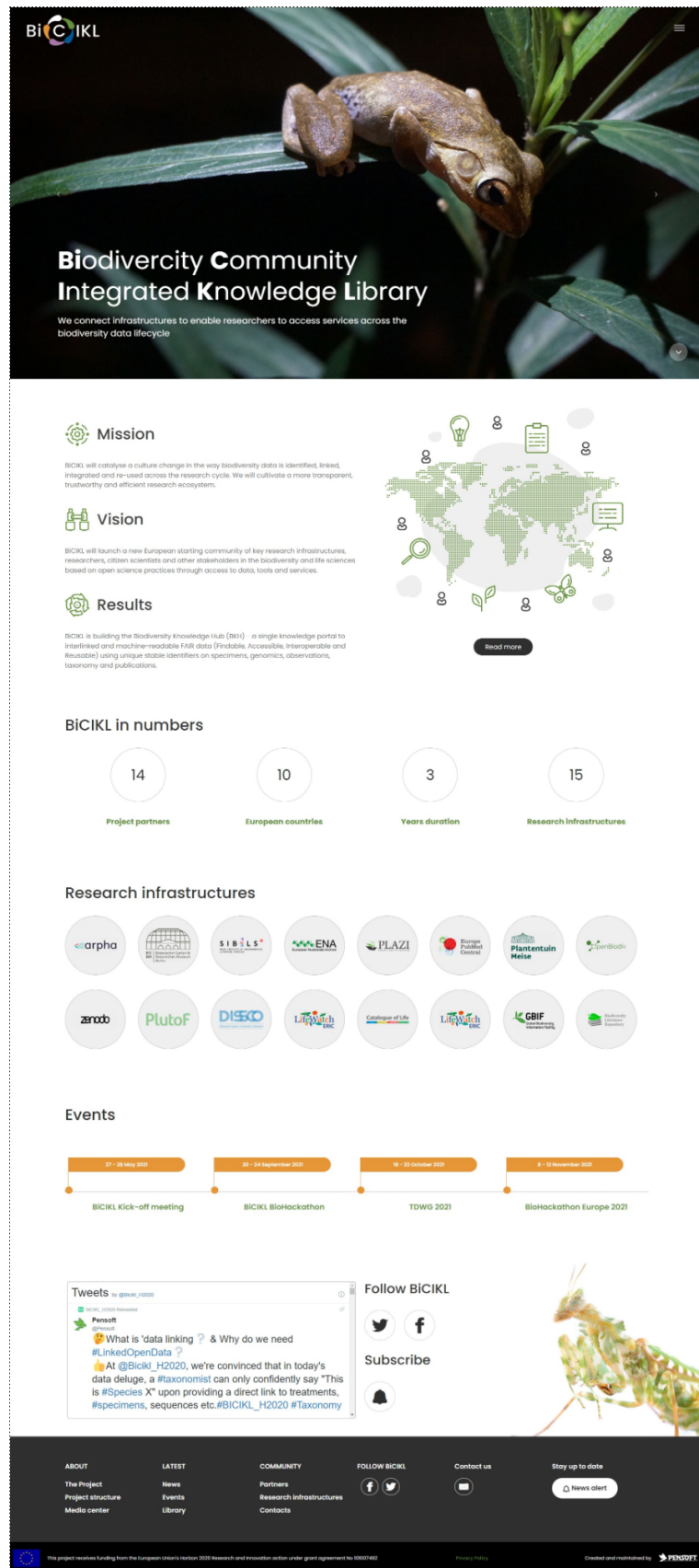


Fig. 6 BiCIKL Homepage.

- About

The About page (Fig. 7) further extends the information available on the Homepage, providing more details about the objectives, products, project structure and work packages.

About

Objectives ▾ Products ▾ Project structure ▾

Objectives

- Findable**
Ensure seamless discoverability of data through globally unique identifiers exposed to individual and federated search engines, including artificial intelligence, from each participating infrastructure and across data domains.
- Interoperable**
Harmonise the existing standards, metadata, policies and technologies to enable new and future research, in order to provide and ingest FAIR data, thereby ensuring standard-aligned interlinking and reuse between data domains.
- Accessible**
Provide, facilitate, support and enable open access to FAIR interlinked data, liberated from literature, natural history collections, sequence archives and taxonomic nomenclators in both human-readable and machine-actionable formats.
- Re-usable**
Optimize the reusability and reproducibility of complex datasets, assembled together from different biodiversity-related domains and their supporting infrastructures, for generation of research Hypotheses and new knowledge.

Products

- Research tools**
Interlinked copons of knowledge, tools and services used by research groups in Biodiversity access and related areas.
- Interlinked knowledge**
A vibrant community equipped with novel research tools for search and access to interlinked data across domains.
- Text and data mining workflows**
Automated text and data mining workflows for extraction, ML and RDF conversion, semantic enrichment, management, dissemination, and re-use of high quality data linked to legacy literature.
- FAIR Data Place (FDP)**
A central tool for search, discovery and management of interlinked FAIR data across different domains.
- Semantic publishing**
Semantic-based authoring tool to be integrated via JATS XML and AM within journal production workflows, thereby benefiting the field of biodiversity, but also remaining available for adoption by other communities.
- Biodiversity Knowledge Hub (BKH)**
A central, one-stop portal, providing access to the BiCIKL services, tools and workflows, beyond the lifetime of the project.

Project structure

Networking Activities Pillar

The Networking Activities (NA) pillar coordinates and optimises the integration and harmonised access between its and their respective data sources, and also engages stakeholders, improves capacity through training, communicates and disseminates the project access tools and services. The NA pillar L... read more

Trans-national and Virtual Access Pillar

The Transnational to Virtual Access (TV/VA) will test, promote and provide the BiCIKL linked data services and tools, while encouraging their use by researchers through open call projects. The pillar will be led by the Marie Skłodowska Curie Hub and comprises Work package 4 on... read more

Joint Research Activities Pillar

The Joint Research Activities (JRA) will technically implement the requirements set by the Networking Activities pillar for (1) sharing, (2) linking and (3) providing FAIR data between the participating Research Infrastructures and to researchers. The provision of access to FAIR data will operate... read more

Works packages

WP1 Coordination and interoperability of infrastructures through harmonisation of community policies, standards and guidelines	WP7 Providing core access services and FAIR data on specimens and samples
WP2 Defining and co-designing the Biodiversity Knowledge Hub (BKH) and operational training	WP8 A data foundation for connected molecular, natural history collections and taxonomic data
WP3 Implementation, stakeholder engagement and outreach for the Biodiversity Knowledge Hub	WP9 Ethics requirements
WP4 Trans-national access to biodiversity infrastructure and services	WP10 Delivering a trusted and evolving taxonomic framework for data integration
WP5 Virtual Access to biodiversity infrastructure and services	WP11 FAIR Data Place: linking, finding and access
WP6 Liberation of data from literature, next-generation semantic publishing and delivery of FAIR data	WP12 Project management

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Project structure Events Library Contacts News alert

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Fig. 7 BiCIKL website About page.

- Partners:

Partner's page (Fig. 8) lists all Project partners with their logos, descriptions of their organizations, roles in BiCIKL and links to their websites.

Partners

PENSOFI
Naturalis Biodiversity Center
PLAZI
Plantentuin Meise
elixir
CERN
KISTAF MUSEUM
Swiss Institute of Bioinformatics
TARTU ÜLIKOOL
LifeWatch EBC
European Centre for Nature Conservation
GBIF Global Biodiversity Information Facility
SPECIES 2000
Biodiversity Information Standards

PENSOFI

Pensoft Publishers (PENSOFI)

Pensoft is an independent academic publishing company, well known worldwide for its novel cutting-edge publishing tools, workflows and methods for text and data publishing of journals, books and conference materials. Through its Research and Technical Development department, the company is involved in various research and technology projects. Pensoft also provides services in website design and development, building of integrated publishing platforms and science communication. The key products of Pensoft are: ARPHA Publishing Platform, ARPHA Writing Tool, OpenBiodiv Knowledge Graph, Pensoft Annotator, Research Ideas and Outcomes (RIO), Zookeys, Biodiversity Data Journal, Phytokeys, Mycokeys, and others. In 2010, Pensoft became the first publisher to implement semantic tagging and enrichment of published content as XML-based routine editorial practice.

In BiCIKL, Pensoft will coordinate the project, provide project branding and website. Pensoft is also responsible for the development of next-generation publishing workflows and the OpenBiodiv Knowledge Graph. Pensoft will provide Transnational and Virtual Access services through its ARPHA-XML and OpenBiodiv research infrastructures.

<https://pensoft.net>

ABOUT
The Project
Project structure
Media center

LATEST
News
Events
Library

COMMUNITY
Partners
Research infrastructures
Contacts

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Privacy Policy

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Fig. 8 BiCIKL website Partners page.

- Research infrastructures

To complement the information about RIs on the Homepage, a separate page was created with Research Infrastructures logos, descriptions and links to websites (Fig. 9). On this page, the visitor can also make a difference about the access the RIs provide - Trans-national or Virtual Access.

BiCIKL

Research infrastructures

BiCIKL is a joint effort by established and emerging European Research Infrastructures, who are committed to the EBIH Vision: An advanced and integrated system of research infrastructures providing crucial services for researchers and innovators, thus enabling the generation of scientific knowledge underpinning our capacity to respond to major societal challenges.

The founder organisations of BiCIKL provide consistent and coherent linkage between biodiversity data classes, which are managed by independent players different in every respect, including the underlying technology, organisational structure, size, ownership, international representation, business model and so on. The coherence of these links will directly contribute to the European Research Area in the field of biodiversity and will create an overarching ecosystem of services operating across the entire biodiversity data life cycle.

Transnational access ▾ Virtual access ▾ Supporting Research Infrastructures ▾

Transnational Access

BiCIKL will enable remote trans-national access to data and services provided by its partners to named users who have submitted a defined use case proposal via a project call process organised by the project.

- ARPHA-XNA**
Bio-secure cross-range life-cycle management
ARPHA-XNA Belgium
<https://arphaxna.com/>
- Botanic Garden and Botanical Museum (BGHM)**
Holding 15 million herbarium specimens and the largest botanical library in Germany
Fritz-Wilhelms-Baum, Germany
<https://www.bghm.org/en/biodiversity-informatics>
- SIBILS**
Automatic annotation pipelines and semantic search of full-text articles
JRC, Centre for Biodiversity
<https://ec.europa.eu/science-research/sibil/>
- European Biodiversity Archive (EBA)**
European biodiversity sequence repository
Bielefeld University, Germany
<https://www.eba-archive.org/>
- TreatmentBank**
Reference, nomenclature and endorsement of data from literature
Potsdam, Maryland
<http://treatmentbank.org>
- Meise Botanical Garden (MBG)**
Digital collection of 1.5 million specimens of plants and fungi
Meise, Belgium
<https://www.meisebotanicgarden.be/en>

Virtual Access

Nine research infrastructures in BiCIKL will provide virtual access to open FAIR data, tools and services hosted by the BiCIKL community as a novel service to the biodiversity researchers and any other users.

- OpenBioID**
Open linked biodiversity knowledge graph
Meise, Belgium
<http://openbioid.org>
- ZenoD**
Repository for research data and publications
CIPI, Italy, Switzerland
<https://zenod.org/>
- PlutoF**
Biodiversity data management and publishing platform
CIPI, Italy, Austria
<https://plutof.eu>
- DISCO**
WebUI access to the integrated access to natural science collections
Netherlands, United Kingdom
<https://www.discobio.org/>
- LifeWatch EBC: Biodiversity and Ecosystem Virtual Research Environments (BEP_VRE)**
Open infrastructure of VREs primarily using Blockchain technology
LifeWatch EBC, San Diego, Spain
<https://www.lifewatch-ebc.org/en/infrastructure-of-virtual-research-environments>
- Catalogue of Life (COL)**
The most comprehensive and authoritative list of species and higher taxa from
Species 2000 Catalogue, The Netherlands
<https://www.catalogueoflife.org/>
- LifeWatch EBC e-Infrastructure services (EIS_e-inf)**
Access to EBC's services on VREs on biodiversity and ecosystem research (BEP)
LifeWatch EBC, San Diego, Spain
<https://www.lifewatch-ebc.org/>
- GBIF.org**
The world's most comprehensive source of primary biodiversity data
Bielefeld University, Germany
<https://www.gbif.org/>
- Biodiversity Literature Repository (BLR)**
Access to literature and associated data from scholarly publications
Potsdam, Maryland
<http://biodid.org>

Supporting Research Infrastructures

- Europe PMC**
Open repository of worldwide life sciences literature
NIH, USA
<https://europepmc.org/>

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The Project News Partners Research Infrastructures [f](#) [t](#) [i](#) [e](#) [New alert](#)

The Project structure Events Contacts

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Partner and member logos: **EUROPEAN COMMISSION** **FRANCOFONIE** **FRANCOFONIE**

Fig. 9 BiCIKL website Research Infrastructures page.

- Library

The Library is dedicated to all BiCIKL publications, deliverables and other public documents of interest. In Month 12, it will evolve into the Beta version of the Biodiversity Knowledge Hub (MS8 Biodiversity Knowledge Hub prototype).

- News

The News section on the BiCIKL website will play a fundamental role in keeping people informed about project updates, achievements and opportunities.

- Events

The Events page features a calendar of events organized by BiCIKL or BiCIKL-involved events. Visitors could find more details like image, description, links to presentations, etc. for BiCIKL-organised events through a dedicated page for each event.

- Media center

The Media center (Fig. 10) is a central place where all outreach materials (e.g. logo, brochure, poster, press releases etc.) are made available and can be freely downloaded.

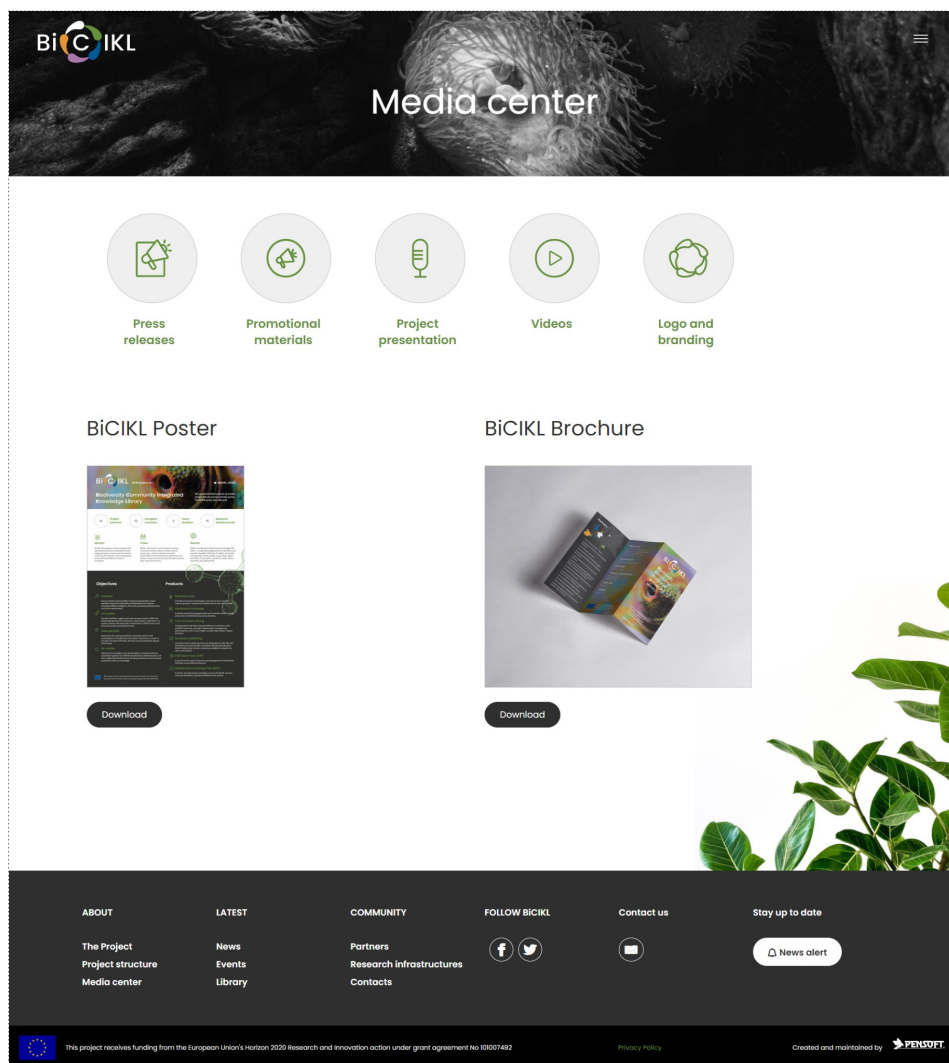


Fig. 10 BiCIKL website Media center page.

- [Contacts](#)

The contact details of the Project Coordinator and Project Manager are available on the [Contacts](#) page.

4. Conclusions

Deliverable 'D3.1 Project logo, marketing pack and website design and development' describes the purpose and creation of project identity, promotional materials and website. The Visual Identity Guide of BiCIKL was integrated into the project's website and promotional materials to create an engaging environment for the facilitation of the main communication and dissemination outputs of the project. Created at the beginning of the project, all elements of the visual identity of BiCIKL will be used during and beyond the project lifetime.

5. Annexes

Annex 1. Visual Identity Guide

**Visual Identity
Guide**



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Logo	3
Fonts	5
Colour palette	7
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Bi C IKL

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LOGO FONT

Poppins Bold

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz

Poppins Regular

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz

Poppins Light

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz

BODY FONT

Source Sans Pro Bold

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz

Source Sans Pro Regular

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Y asfdy Zz

Source Sans Pro Light

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz

Source Sans Pro Italic

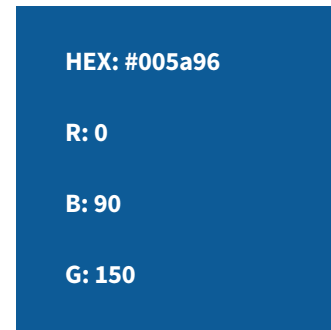
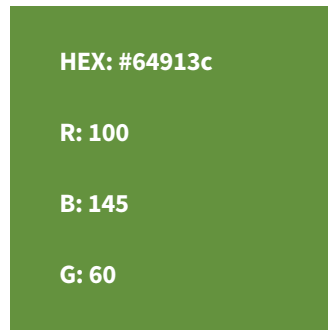
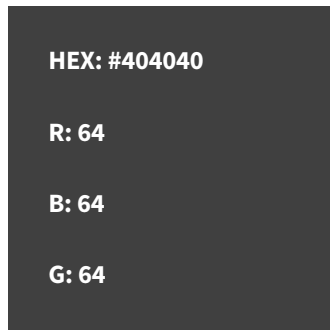
Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz

Summary

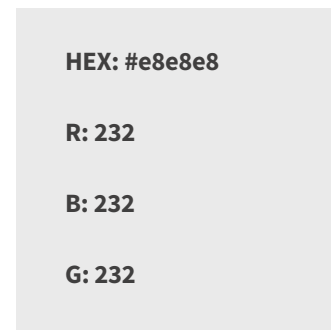
BiCIKL will initiate and build a new European starting community of key research infrastructures in biodiversity and life sciences, solidifying open science practices through provision of access to data, associated tools and services at (1) each separate stage of, and (2) along the entire research cycle. BiCIKL will provide for the first time seamless access, linking and usage tracking of data within a network of links between the different data classes, ultimately species → analytics → publications → biodiversity knowledge graph → re-use. BiCIKL will also provide new methods and workflows for an integrated access to harvesting, liberating, linking, and re-using of sub-article-level data (specimens, material citations, samples, sequences, taxonomic names, taxonomic treatments, figures, tables) extracted from literature.

The added value of the new community over the sum of the existing services, besides the improved access at each stage of the data and research life cycle, will be the provision of a single knowledge broker, the Biodiversity Knowledge Hub (BKH), to interlinked, machine-readable, Findable, Accessible, Interoperable and Reusable (FAIR) data connecting specimens, genomics, observations, taxonomy and publications. The existing services provided by the participating infrastructures will be expanded through the development and adoption of shared/common/ interoperable domain standards which will liberate and enhance the flows of data and knowledge across these domains. Looking forward and through incorporating lessons learned from the joint research activities and feedback from the access provided to researchers, BiCIKL will make possible the establishment of next-generation scholarly practices entirely based on open data and open science principles. The novel tools and workflows developed for extraction, FAIRification, management and re-use of data extracted from literature, and those that provide prospective, data- and narrative-integrating publishing, can be used in its generic form in domains beyond biodiversity.

Primary Colours

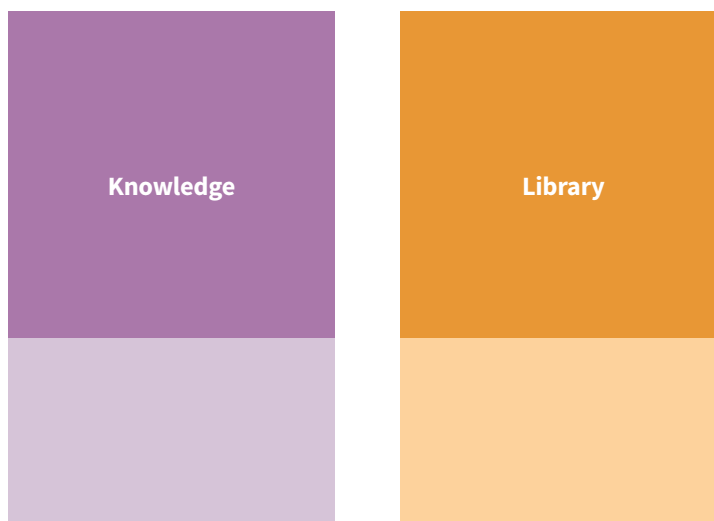
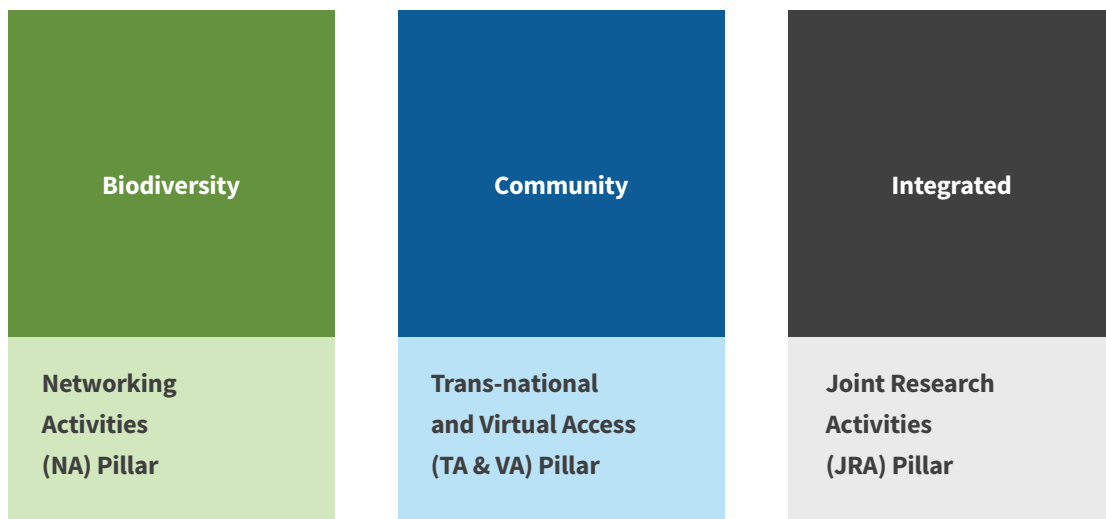


Secondary Colours



Colour palette





Colour coding





Mission

BiCIKL will catalyse a culture change in the way biodiversity data is identified, linked, integrated and re-used across the research cycle. We will cultivate a more transparent, trustworthy and efficient research ecosystem.



Vision

BiCIKL will launch a new European starting community of key research infrastructures, researchers, citizen scientists and other stakeholders in the biodiversity and life sciences based on open science practices through access to data, tools and services.



Results

BiCIKL is building the Biodiversity Knowledge Hub (BKH) - a single knowledge portal to interlinked and machine-readable FAIR data (Findable, Accessible, Interoperable and Reusable) using unique stable identifiers on specimens, genomics, observations, taxonomy and publications.

Findable

Ensure seamless discoverability of data through globally unique identifiers exposed to individual and federated search engines, including artificial intelligence, from each participating infrastructure and across data domains.



Accessible

Provide, facilitate, support and scale-up open access to FAIR interlinked data, liberated from literature, natural history collections, sequence archives and taxonomic nomenclators in both human-readable and machine-actionable formats.



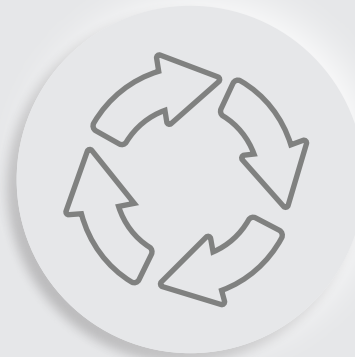
Interoperable

Harmonise the existing standards, metadata, policies and technologies to develop new ones (where necessary), in order to provide and ingest FAIR data, thereby ensuring standard-aligned interlinking.



Re-usable

Optimise the reusability and reproducibility of complex datasets, assembled together from different biodiversity-related domains and their supporting infrastructures, for the generation of novel research hypotheses and new knowledge.



Research tools

A vibrant community equipped with novel research tools for search and access to data interlinked across domains.



Interlinked knowledge

Interlinked corpora of knowledge used by research groups in biodiversity science and related areas.



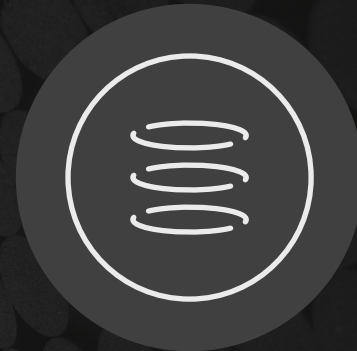
Text and data mining workflows

Automated text and data mining workflows for extraction, XML and RDF conversion, semantic enhancement, management, dissemination, and re-use of the huge amount of highly valuable data linked to the Linnean names of species, accumulated in the legacy literature.



Journal production workflows

Semantics-based journal production workflows for the community but also as a seed for adoption by other communities.






BiC IKL Biodiversity Community
Integrated Knowledge
Library

**Title of the
presentation**


Presenter

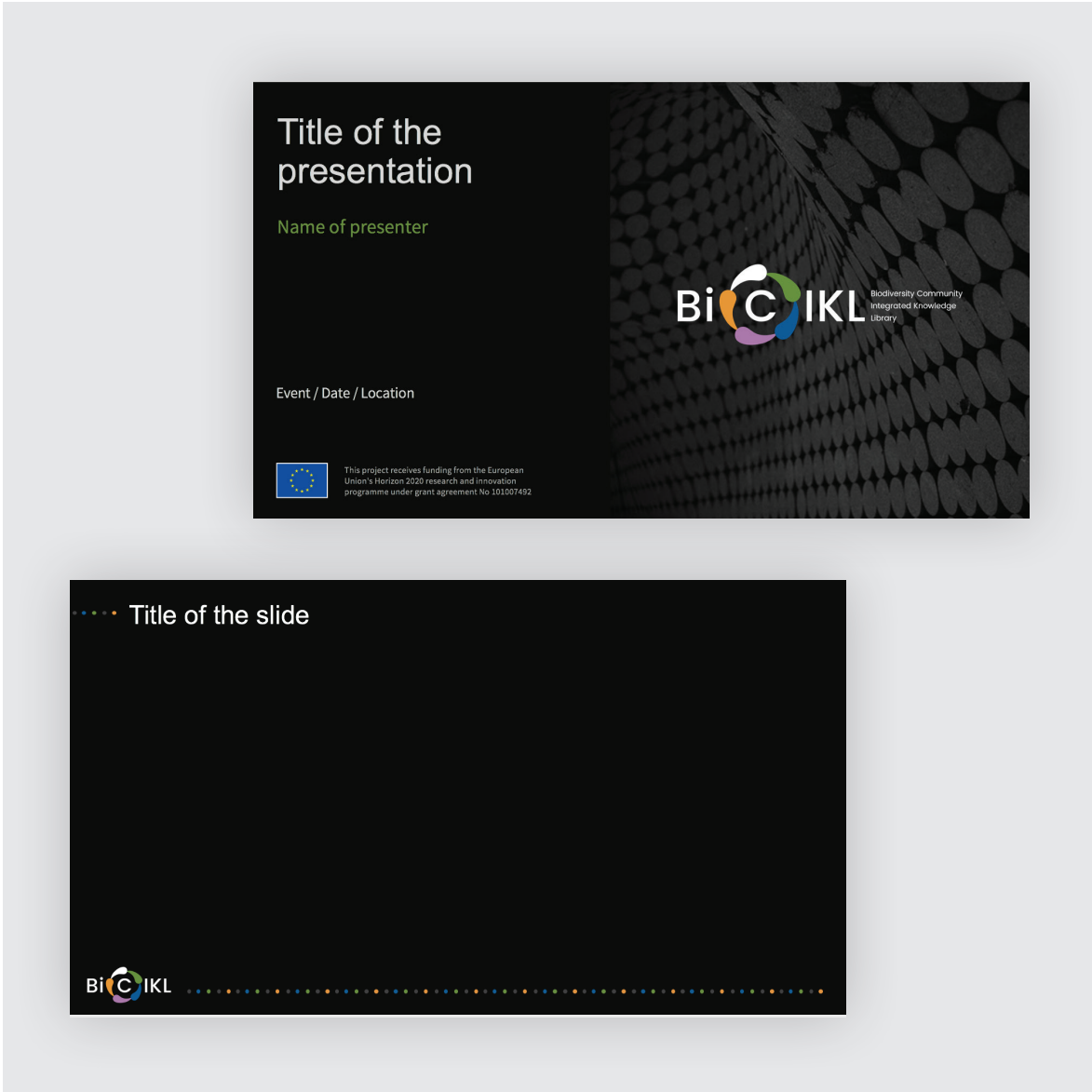
Event/Date/Location

 This project receives funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 101007492



••••• Title of the slide

 •••••



Partners



- Pensoft Publishers (PENSOFT), Bulgaria
- Stichting Naturalis Biodiversity Center (NATURALIS), Netherlands
- Plazi GMBH (Plazi), Switzerland
- Agentschap Plantentuin Meise (MeiseBG), Belgium
- European Molecular Biology Laboratory (EMBL-EBI), Germany
- European Organization for Nuclear Research (CERN), Switzerland
- Consortium of European Taxonomic Facilities (CETAF), Belgium and Muséum national d'Histoire naturelle (MNHN, associated party to CETAF), France
- SIB Institut Suisse De Bioinformatique (SIB), Switzerland
- Tartu Ülikool (UTARTU), Estonia
- E-Science European Infrastructure for Biodiversity and Ecosystem Research (LIFEWATCH), Spain
- Freie Universität Berlin (FUB-BGBM), Germany
- Global Biodiversity Information Facility (GBIF), Denmark
- SPECIES 2000 (sp2000), United Kingdom
- Stichting International Working Group On Taxonomic Database (TDWG), Netherlands

Keywords

Biodiversity, genomics, research cycle, research ecosystem, research infrastructures, FAIR, interlinked data, data mining, semantic publishing, data lifecycle, data operation training

Consortium

14 partners from 10 European countries

Duration

May 2021 - April 2024

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Biodiversity Community Integrated Knowledge Library

We connect infrastructures to enable researchers to access services across the biodiversity data lifecycle

bicikl-project.eu



This project receives funding from the European Union's Horizon 2020 Research and Innovation action under grant agreement No 101007492

Background

Mission

BICIKL will catalyse a culture change in the way biodiversity data is identified, linked, integrated and re-used across the research cycle. We will cultivate a more transparent, trustworthy and efficient research ecosystem.

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BICIKL will launch a new European starting community of key research infrastructures, researchers, citizen scientists and other stakeholders in the biodiversity and life sciences based on open science practices through access to data, tools and services.

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Ensure seamless discoverability of data through globally unique identifiers exposed to individual and federated search engines, including artificial intelligence, from each participating infrastructure and across data domains.

Accessible

Provide, facilitate, support and scale-up open access to FAIR interlinked data liberated from literature, natural history collections, sequence archives and taxonomic nomenclators in both human-readable and machine-actionable formats.

Interoperable

Harmonise the existing standards, metadata, policies and technologies to develop new ones (where necessary), in order to provide and ingest FAIR data, thereby ensuring standard-aligned interlinking.

Re-usable

Optimise the reusability and reproducibility of complex datasets, assembled together from different biodiversity-related domains and their supporting infrastructures, for the generation of novel research hypotheses and new knowledge.

Research tools

Interlinked corpora of knowledge, tools and services used by research groups in biodiversity science and related areas.

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Text and data mining

Automated text and data mining workflows for extraction, XML and RDF conversion, semantic enhancement, management, dissemination, and re-use of highly valuable data linked to legacy literature.

Semantic publishing

Semantics-based authoring tool to be integrated via JATS XML and API within journal production workflows, thereby benefiting the field of biodiversity, but also remaining available for adoption by other communities.

FAIR Data Place (FDP)

A central tool for search, discovery and management of interlinked FAIR data across different domains.

Biodiversity Knowledge Hub (BKH)

A central, one-stop portal, providing access to the BICIKL services, tools and workflows, beyond the lifetime of the project.

BiC IKL bicikl-project.eu @Bicikl_H2020

Biodiversity Community Integrated Knowledge Library

We connect infrastructures to enable researchers to access services across the biodiversity data lifecycle

14 Project partners

10 European countries

3 Years duration

15 Research Infrastructures

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Objectives

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Re-usable
Optimise the reusability and reproducibility of complex datasets, assembled together from different biodiversity-related domains and their supporting infrastructures, for the generation of novel research hypotheses and new knowledge.

Products

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