



# AI4Life



The goal of AI4Life is to radically reduce the disparity between the theoretical applicability and the practical use of state-of-the-art AI-based image analysis methods in life sciences. AI4Life will **bridge the gap between** two rapidly developing fields: **AI method development, and biological imaging**; providing urgently needed services through the European trans-national and virtual access infrastructures.



## Goals

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Democratized availability of <b>AI-based image analysis methods</b>	Establish <b>standards</b> for the submission, storage and FAIR access	Simple <b>model deployment, sharing, and dissemination</b> through a developer-facing service	Organize <b>Open Calls</b> and <b>Challenges</b> for image analysis problems	<b>Empower common image analysis</b> platforms with AI integration	Organizing <b>outreach</b> and <b>training</b> events i.e. image analysis workshops, participation in conferences



## Structure



10

PARTNERS

8

COUNTRIES

3

YEARS

4M

EUROS













WP1 – PROJECT MANAGEMENT

WP2 – USER SERVICES & COMPUTING INFRASTRUCTURES

WP3 – DIRECT SUPPORT

WP4 – CONTRIBUTOR SERVICES

WP5 – DATA, MODEL & COMPUTING STANDARDS

WP6 – SUPPORT FOR OPEN CALLS, CHALLENGES & NEW SERVICES


WP7 – COMMUNICATION, OUTREACH & TRAINING



## Opportunities

AI4Life provides an open, accessible, **community-driven repository** of FAIR pre-trained AI models for image analysis. Computationally powered by cloud computing infrastructure, the interface of the **Biolmage Model Zoo (BMZ)** makes AI models available to everyone.

### AI Models



Advanced AI models in one click

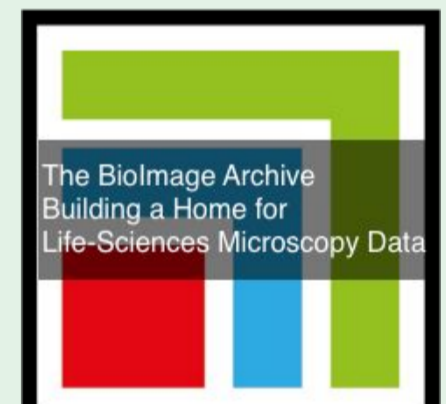
Help Desk  
[ai4life.eurobioimaging.eu/help](https://ai4life.eurobioimaging.eu/help)

### AI-ready Datasets

The **Biolmage Archive (BIA)** is an **open resource** that stores and shares **biological images**. The BIA plans to become the central repository for **AI-ready datasets** of biological images. The BIA is working on a series of **recommendations (FAIM)** to develop **annotation standards** for the community:

- Formats
- Accessibility
- Incentives
- Metadata

[www.ebi.ac.uk/bioimage-archive](https://www.ebi.ac.uk/bioimage-archive)



## Open Calls & Challenges

The AI4Life **Open Calls** provide **technical support** to researchers. Life Scientists are encouraged to submit specific bioimage analysis issues that the AI4Life team will contribute to with computational expertise. Following the outcomes of the 3 Open Calls projects, we will organise 3 **Challenges**.

	Q1			Q2			Q3			Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022												
2023												
2024												
2025												

[ai4life.eurobioimaging.eu/open-calls](https://ai4life.eurobioimaging.eu/open-calls)

## Workshops

AI4Life offers **targeted image analysis courses** for life scientists, along with participation in **conferences**. AI4Life hosts **annual advanced image analysis workshops**, showcasing the BMZ's usage and its integration with the Biolmage Archive. **Hackathons** to work on relevant topics will also be organized and **Solvathons** to address Open Call analysis problems.

[ai4life.eurobioimaging.eu/events](https://ai4life.eurobioimaging.eu/events)



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LIFE  
SCIENCE  
COMMUNITY

SOFTWARE

AI MODELS

STANDARDS

AI METHODS



COMPUTER  
SCIENCE  
COMMUNITY