Helmholtz AI projects 2022- application template

General information

|  |  |
| --- | --- |
| **Submission details** | **Description** |
| **Parts and page limits** | Main body (max. 5 pages) and appendices, including cover page, list of work packages, list of deliverables, financial plan, CVs, letters of boards, resubmission statement (if applicable)  [please note that an abstract, potential reviewers and further information has to be provided in the online application tool] |
| **Formatting** | Arial, font size 11 & single-line spacing |
| **Language** | English |
| **Online submission too**l | [https://application.helmholtz.ai](https://application.helmholtz.ai/) |

Project information

Please include the following information on your cover page:

|  |  |
| --- | --- |
| **Project title** |  |
| **Project acronym** |  |

Project proposal (main body, i.e. max. 5 pages)

1. Scientific case

Please describe your scientific case and your objective(s) clearly and coherently, laying out the challenges, urgency and potential impact. Please reference your key deliverables.

1. Unique and ambitious approach

Please explain the uniqueness of your approach in the context of it being a Helmholtz-specific opportunity, highlighting the complementarity of and contributions from the participating centers (and external partners, e.g. academia, companies or non-profits). Ideally, Helmholtz AI projects are co-created and iteratively developed with users (and where appropriate non-academic stakeholders) to ensure the quick adoption of results.

Please detail the potential risks and associated gains of your project in contrast to a more conservative, incremental approach.

For the add-on opportunity please outline the contributions from the Israeli partner and how the Israeli-German collaboration will strengthen the ties between both countries’ AI communities.

1. Utility of AI/ML methods and/or data sets

Please explain your project’s potential to improve, implement, transfer and/or disseminate the applied techniques, methods and joint usage/exploitation of data sets. Please note that the methodology description should not merely list options or remain at the surface level, but explain in detail which choices are made and how these will help address the research question(s) and challenges at hand. Please reference your deliverables.

Helmholtz AI projects aiming for the add-on opportunity this year, please describe the significant contribution by the Israeli partners in monetary value or in-kind contributions, e.g. data, work hours or software solutions.

1. Long-term impact and transfer

Please discuss the expected long-term impact arising from the joint endeavor, particularly for

i) the research field and for method development/application at the participating centers,

ii) other centers within the Helmholtz Association and

iii) beyond (transfer outside the scientific community). Specifically:

* Contribution the goals described in the Helmholtz transfer strategy¹ (e. g. inclusion of external partners, outlining how the project achieves the maturation of

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¹ Overview Helmholtz Transfer Strategy: <https://www.helmholtz.de/assets/helmholtz_gemeinschaft/user_upload/Transferstrategie_Kompakt_EN_web_update.pdf>

* (preliminary) findings and results, advancing the Technology Readiness Level (TRL), outlining a exploitation strategy etc.) and
* Outlining anticipated interactions with specified application partners

1. Implementation and management

Please lay out the plans for staff recruitment and all expenditures, and describe the intended project management, decision-making and oversight measures you will apply, including communication between participating centers and collaboration mechanisms with external partners.

Appendices

**List of Work Packages**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **WP#** | **WP Title** | **Lead (PI)** | **Budget**  **(INF+own)** | **if applicable portion of budget provided by Israeli partner** | **Start month/year** | **End month/year** |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| ... |  |  |  |  |  |  |

Please provide a list of work packages with a descriptive title and indicate the leading centre, the budget and the timeline.

**List of Deliverables**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Deliver-able #** | **Deliverable type, description and destination** | **WP#** | **Lead** | **Contributors** | **Due month** |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| ... |  |  |  |  |  |

Deliverables are outputs that must be produced at a given moment during the project (normally not at the same time as the annual or final reports). Please set out clear and verifiable deliverables, define the associated work package, the responsible project partner and the due month. Please indicate which deliverables are jointly produced with or intended to be used by external partners (‘destination’).

Non-limiting examples for deliverables are: documents (e.g. scientific, policy or lay publications, reports, technical brochures), website content, code (package), software (e.g. apps or new versions), data sets, patent filing, collaboration/license agreement.

Please take into account that first deliverables are expected within 12 months.

**Financial plan**

Your budget planning must include a break-down of the allocated budget for each work package defining their aggregate in-kind and cash contributions for the entire funding period. Overhead cannot be funded, please do not calculate any. **Please take extra care that the requested funds and the matching funds are identical to the sums indicated in the online submission tool.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | **Contributions (Euro)** | | |
|  | |  | **Own** | **INF** | **Total** |
|  | **WP 1** | |  |  |  |
|  | Partner 1 (Center) | |  |  |  |
|  | Partner 2 (Center) | |  |  |  |
|  | … | |  |  |  |
|  | if applicable: Israeli partner | |  | no funding possible from INF to Israeli partner |  |
|  | … | |  | - |  |
|  | **WP 2** | |  |  |  |
|  | Partner 1 (Center) | |  |  |  |
|  | Partner 2 (Center) | |  |  |  |
|  | … | |  |  |  |
|  | if applicable: Israeli partner | |  | no funding possible from INF to Israeli partner |  |
|  | … | |  | - |  |
|  | **Total** |  |  |  |  |

Your budget planning must also include a break-down of the annual budget for each participating center according to type of funding (staff and expenses).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Financial plan** | | | |  |  |  |  |  |
|  | | |  | **2023** | **2024** | **2025** | **2026** | **Total** |
|  |  |  | | Euro | Euro | Euro | Euro | Euro |
| **Overall costs**  (without overhead) | | | |  |  |  |  |  |
|  | **Partner 1 (center)** | | |  |  |  |  |  |
|  | Staff expenses | | |  |  |  |  |  |
|  | Expenses related to materials and equipment | | |  |  |  |  |  |
|  | Misc. (please specify) | | |  |  |  |  |  |
|  | **Own contributions** | | |  |  |  |  |  |
|  | **INF** | | |  |  |  |  |  |
|  |  | | |  |  |  |  |  |
|  | **Partner 2 (center)** | | |  |  |  |  |  |
|  | Staff expenses | | |  |  |  |  |  |
|  | Expenses related to materials and equipment | | |  |  |  |  |  |
|  | Misc. (please specify) | | |  |  |  |  |  |
|  | **Own contributions** | | |  |  |  |  |  |
|  | **INF** | | |  |  |  |  |  |
|  |  | | |  |  |  |  |  |
|  | **...** | | |  |  |  |  |  |
|  |  | | |  |  |  |  |  |
|  | if applicable:  Israeli partner 1 (name) | | |  |  |  |  |  |
|  | Staff expenses | | |  |  |  |  |  |
|  | Expenses related to materials and equipment | | |  |  |  |  |  |
|  | Misc. (please specify) | | |  |  |  |  |  |
|  | Own contributions | | |  |  |  |  |  |
|  |  | | |  |  |  |  |  |
|  | … | | |  |  |  |  |  |
|  | **Total own contributions** | | |  |  |  |  |  |
|  | **Total INF** | | |  |  |  |  |  |
|  | **Total Israeli partner  (if applicable)** | | |  |  |  |  |  |

**Resubmission statement (if the application has been unsuccessful in a previous call)**

* Description of the changes in the resubmitted application compared to the previous version (max. 1 page).

**Participating PIs**

* CVs of participating PIs

**If already available, CV(s) of (a) potential candidate(s)**

* CVs of potential candidates

**Confirmation of the participating Helmholtz centers and external partners that provide matching funds**

* Signed confirmation letters of the CEO/board of directors of **each of the participating parties** that contribute matching funds guaranteeing the matching of the funds the contribution of the Initiative and Networking Fund.

**Ethics assessment, discussion of potential negative societal impact, and compliance (if applicable)**

* If the project raises ethical concerns, please consult with your Institutional Review Board(s) and report the outcome. If the project involves sensitive data, please describe the process of data handling and compliance. In general, it is recommended to assess the proposal according to the NeurIPS ethics guidelines and briefly report on that: <https://neurips.cc/public/EthicsGuidelines>.