

## Call for modular flexible synthesis projects (SYNFLEX)

Financing after September 2024 is subject to approval of iDiv funding beyond DFG funding.

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### 1 General information and rules

This call is for conducting synthesis research projects (starting in 2023) in a stimulating and supportive international environment with the flexibility to use a diverse set of modules. Creativity is encouraged.

**Examples** for potential funding modules are:

- Short term guests (e.g., travel, housing, potentially other expenses)
- Scientific support staff (based in Leipzig)
- Working group meetings
- Travel costs (e.g., conferences/ workshops/ inquiries/ meetings with project partners)

Please see Appendix I for more information on modules and important rules to keep in mind when developing your SynFlex project.

**With this call, we want to specifically encourage applications of researchers from and topics relevant for regions that are often under-represented in science (see list [here](#)).**

Most activities should take place either at iDiv (working group meetings, hosting of visitors, workplace of support staff) or have to involve the iDiv collaborator (outgoing visit). Alternatively sDiv supports virtual collaborations in various ways.

Please read thoroughly about the [general mission and ideas behind iDiv and the sDiv synthesis centre](#) as they are important and helpful in preparing a successful sDiv proposal.

### 2 Proposal

#### 2.1 Topics

All synthesis topics in biodiversity research are welcome, ranging from biology to social or computer sciences. Proposals should address novel questions or examine known problems from an innovative synthesis perspective. The project's topics should fall into one of the five research areas of [iDiv's biodiversity research](#) and should have strong links to iDiv's research mission regarding [Integrative Biodiversity Research](#).

Although not exclusively, we particularly encourage projects that use knowledge from regions that are typically under-represented in biodiversity research (e.g. data/information extracted

from non-English publications) and/or are of great importance for the future development of an under-represented region (e.g. applicants country or region of origin etc.) while also having a strong connection to overarching research questions beyond those regions.

Projects should provide evidence that sufficient data and appropriate analytical tools are available or will be developed during the project to tackle novel questions. The status of data availability has to be indicated in the pre-proposal.

## 2.2 Group composition

The maximum number of principal investigators (PIs) is two. The project must have at least one PI from an usually under-represented region and - in case your project includes working group meetings - at least one additional participant from such a region. Each sDiv project should have at least one [iDiv member](#) (full & associated members are eligible) as a participant (see 2.3.). **Please note: iDiv member is a pre-defined term and is not referring to every iDiv researcher (e.g. iDiv employee).** [iDiv members](#) are either iDiv research group leaders or researchers from collaborating institutes who have to apply for being iDiv members. It is a specific status.

A pre-proposal without a letter of support from an iDiv member will not be further evaluated. See Appendix I for more information on group compositional rules (i.e. for working groups).

## 2.3 Collaboration in iDiv

Any project needs a minimum of one [iDiv member as a participating collaborator](#). We also strongly encourage including early career researchers. In working groups (see Appendix I) a minimum of one PhD student has to be included. Please see iDiv's PhD graduate school [yDiv](#) for potential PhD students to be included in your project.

Contact sDiv head Marten Winter ([marten.winter@idiv.de](mailto:marten.winter@idiv.de)) in finding suitable [iDiv member](#) and/or yDiv PhD students.

## 3 Application process

### 3.1 Pre-proposal

You are only eligible to submit a full sDiv proposal if you were invited to do so after a successfully reviewed pre-proposal. The mandatory pre-proposal should briefly describe the project and the aims. Pre-proposals have to be submitted via an online form in the [iDiv application portal](#) before **22 March 2022 (11:59 PM CET)**. Decisions whether you can submit a full proposal will be made within three weeks following the pre-proposal deadline.

The pre-proposal online form includes:

1. Information and status of the PIs and participants, including the supporting iDiv member.

2. A brief description of the planned project (no more than 750 words excluding references, usage of references is optional, no charts, no graphics, no calculations, no formatting but continuous text) including the novelty, the synthesis aspect and scientific aims, approaches (methods, used data etc.), and relevance for biodiversity - please note that due to the potential complexity of the project structure, the use of different modules doesn't have to be final at this stage.
3. A brief description how your project tackles the under-represented region gap in this call (e.g. briefly describe how potential project participants and PIs are related to it and how the topic might address certain relevant topics and regions).
4. A list of data to be used - Clarify the source and availability status (e.g. available, to be mobilized, etc.) of the data you plan to use, if applicable.
5. A letter of support by the iDiv member(s) using the template provided on the [sDiv website](#) - a pre-proposal without a letter of support from an iDiv member will not be further evaluated.
6. A list of min. five potential reviewers for the full proposal in case of a successful pre-proposal.

### 3.2 Full proposal

Following the invitation to submit a full proposal, it is necessary to complete the **proposal template** provided on the [sDiv website](#) - available after the pre-proposal deadline. Submit your full proposal including all attachments in **one PDF file** via the online form in the [iDiv application portal](#) by **22 June 2022 (11:59 PM CET)**. Check the online form well before the submission deadline - it contains a number of questions to be filled out in order to ease processing of the application data.

## 4 Research data management

With the invitation to submit a full proposal and submission of the resulting application, it is required that the data owners agree to make the data and code resulting from sDiv funding publicly available. This should be achieved latest within three years of the final project activity, and under the least restrictive license possible.

Therefore, the project PIs have to read and accept the iDiv Data Sharing and Data Portal Usage policies. These are currently undergoing revision and will be provided when projects are invited for full proposals. General iDivs data policies follow widely accepted Open Science principles.

Funded projects will receive intensive support in any necessary code and data management demands by iDiv's Integrative Biodiversity Data and Code Support Unit.

## 5 Budget

The budget of the project has to be described in the full proposal only. It is restricted to a total of 45.000,00 €. Financial resources can be requested for consumables as well as for support staff. This could include e.g. travel costs, training but also short term contracts for scientific helpers and guests. No additional data generation or sampling e.g. field or lab work will be funded. For an overview on basic conditions of potential modules please see appendix I.

Administration of the budget will be handled by sDiv staff. Any recruitment of staff, purchasing etc must be carried out by sDiv, as administrative regulations by Leipzig University apply and the costs need to be eligible with the DFG funding regulations. If you are asked to submit a full proposal, please clarify the budget details with the sDiv staff via [sdiv@idiv.de](mailto:sdiv@idiv.de).

Budget calculation for working group meetings has to be done via the [budget tool](#) provided on the sDiv website. It is important to add a screenshot of the budget tool to the full proposal. For calculating rates of the scientific support staff, please see appendix I.

It is important to list all costs, define the modules and list for which year and/or for how long they apply (e.g. for support staff it is necessary to list the starting date and the number of months they will be employed).

**Any financial deviations from the proposed budget of funded proposals must be discussed with the head of sDiv. Please note that we cannot shift the money over the years!**

## 6 Evaluation procedure

### 6.1 Selection criteria

Generally, selection criteria are based on scientific excellence, the relevance and the novelty of the research questions, a strategic fit to iDiv research (please read carefully the [sDiv framework](#)), work plan (timeline, deliverables etc.), expertise and fit of the project participants and the PIs as well as the region of the PIs (please see rules described in this document). The project's objectives have to be highly relevant to iDiv's central missions.

### 6.2 Proposal evaluation

Pre-proposals will be evaluated within three weeks after the submission deadline by the sDiv executive board.

Full proposals are usually evaluated within fifteen weeks after the submission deadline by the sDiv evaluation board and external expert reviewers.

## 7 Reporting

The PIs of funded synthesis projects are obliged to provide a summary of every deliverable or milestone immediately afterwards. Furthermore, it is expected that a final report will be delivered within six months after the end of the project. All reports will be published on the individual [sDiv project webpages](#).

The report should include specific project deliverables: i.e. manuscripts of multi-author scientific publications, proposals for other funding sources, code, databases etc. It should also include a description of further collaboration plans. **sDiv support has to be acknowledged in any kind of sDiv project publication/outcome ([see guidelines](#)).** **Copies of published products should be sent to sDiv.**

## Appendix I - Description of potential main project modules

- **Scientific helpers/support staff**

Scientific helpers must be enrolled at a German University during the time of the contract as bachelor/master students or PhD students. Workplace is the iDiv headquarter in Leipzig. Working time is 19 hours per week maximum, average costs 1.500 € per month. Any proposed deviation from these circumstances (e.g. place of work) needs to be well justified and described and will be considered with regard to feasibility.

- **Short-term-guests exchange**

If a guest exchange among the collaborators (i.e. short term visits) is considered, the iDiv member has to be involved. Either the iDiv collaborator is traveling or the hosting visitor(s). Funds can be requested to cover expenses of the visit(s), (e.g. travel and housing). Any necessary access to iDiv should be clarified in advance.

- **Working group meetings**

All in-person working group meetings should take place at iDiv in Leipzig. Please check our [sDiv calendar](#) for available dates. The following instructions are general recommendations for sDiv working groups. However in this call working groups can be more flexible in size and duration according to the needs of the project. Group size can range from two to 20 participants (maximum). From our experience, working groups of 12-15 are the optimal size for manageable and successful synthesis groups. Larger meetings usually run for four or five full working days, up to two weeks. In general, longer stays are considered more effective but costs should be balanced by a smaller group size to stay within the funding limit. We encourage working groups to meet several times, with at best four or five full days per meeting. If the main project module is large working group meetings, an approval for a funded third meeting will be based on a mid term evaluation by the sDiv board after the second meeting. In-person meetings will take place in Leipzig depending on the prevailing Corona situation. If hybrid or full in-person meetings cannot take place, sDiv working groups are supposed to meet virtually with full support by sDiv. Under specific circumstances and if well justified, sDiv also supports satellite working group meetings (e.g. two teams are gathered at two places - one of them has to be iDiv - and meet simultaneously).

The PIs are responsible for communicating with sDiv. It is expected that the PIs provide a list of all participants (including themselves) who have agreed to participate (if large working group meetings are considered a list of ten core participants is sufficient). Once a working group has been approved, exchanges or the additions of new participants can be allowed if agreed with the Head of sDiv and the PIs.

Following the spirit of iDiv and the science about successful synthesis groups, PIs should strive for a well-balanced group of participants in terms of gender balance, career stage, international and scientific expertise diversity. However, at least one PI (and one participant) has to come from a region that is often under-represented in science. sDiv aims to have at

least 40% female participation as well as at least one PhD student at meetings. Please consider including PhD students of iDiv's graduate school yDiv. Successful groups consist of people with excellent expertise but also with dedication and time to participate in the meetings and to contribute significantly to the working group goals. To maximize the integration of sDiv into iDiv's research, every sDiv working group needs to have a minimum of one [iDiv member](#) as a participant (please note an iDiv member is a specific group of elected colleagues and not every iDiv employee). It is obligatory to attach a letter of support of the iDiv member to the proposal. A pre-proposal without an iDiv member agreeing to be a participant will not be further evaluated.

The admission criteria will also include the group composition, the participants' particular competences, their contribution to maximize complementarity of skills within a meeting and available funding. The participants should reflect the goals and objectives of the group, for example, working groups that address socio-economic aspects of biodiversity science should involve stakeholders and social scientists.

Although working groups should include internationally renowned scientists across career stages, we ask the PIs to minimize the carbon footprint of travel as much as possible. Therefore, no more than 50% of the participants should travel from outside geographical Europe.

**Budget calculation** for working group meetings has to be done via the budget tool provided on the [website](#). Any financial deviations from the budget or change in participants of funded proposals have to be discussed with the head of sDiv.

As an important part of the improvement of sDiv and the development of synthesis centres, working groups are evaluated before, during and after the meetings. Every working group participant is asked to answer the evaluation survey(s) after the meeting(s).

Failure to complete a working group successfully for unjustified reasons and non-compliance with iDiv's data policy can result in banning PIs from submitting future proposals to project calls.