Schwerpunktprogramm /
Priority Programme
SPP 2317

Preparatory Workshop
September 28, 2020

"Zoom Etiquette"

- Please turn on your mic only when you want to say something; otherwise, mute yourself – thanks!

- Turn on your video if possible.

- If you want to say something, please type a "!" or a "?" into the chat. You will be called upon.

- Otherwise, please use the chat sparingly.

TOPICS FOR TODAY'S MEETING

1. What exactly is an "SPP"?

2. Who are the coordinators of META-REP?

3. What is the aim and scope of META-REP?

4. What kinds of projects are we looking for?

5. What is the benefit of joining META-REP?

6. Proposal Submission

7. Your Project Ideas (Online Survey)

8. Open Questions / Discussion

1. What exactly is an "SPP"?

- An SPP provides a platform for individual research projects that contribute to one overarching scientific aim; 2 × 3 years (in our case, 2021-2024 and 2024-2027)

- **Networking and collaboration**: Projects are executed at various German research sites, but are encouraged to collaborate and profit from a central coordination

- Strong **interdisciplinary focus**; exploiting synergy potentials

- **Coordination**: makes sure that all projects really contribute to the program's "overarching aim"; provides the necessary infrastructure for networking, collaboration, career advancement of junior scholars, gender equality, and a family-friendly environment

1. What exactly is an "SPP"?

Assessment criteria for individual projects:

1) Quality of the project: originality, contribution to knowledge

2) Objectives and work program

3) Qualifications of the applicant

4) Work and research environment

5) **Contribution of the project to the aims of the SPP**

2. WHO ARE THE COORDINATORS OF META-REP?

Program Committee:

- Mario Gollwitzer (Coordinator; LMU München; Social Psychology)

- Katrin Auspurg (LMU München; Sociology/Methodology)

- Susann Fiedler (MPI Bonn; Judgment and Decision Making)

- Tina Lonsdorf (UKE Hamburg; Systems and Cognitive Neuroscience)

- Felix Schönbrodt (LMU München; Methodology/Personality Psychology)

Scientific Advisory Board:

- Mitja Back (WWU Münster; Personality Psychology)

- Michael Bosnjak (ZPID Trier; Methodology)

- Andreas Glöckner (U Cologne; Social Psychology/Decision-Making)

3. What is the aim and scope of META-REP?

SPP 2317 "META-REP: A Meta-scientific Program to Analyze and Optimize Replicability in the Behavioral, Social, and Cognitive Sciences"

- Overarching aim: To empirically investigate …

  1. **WHAT** "replicability" means (and when a replication can be regarded as successful vs. failed) in different behavioral, social, and cognitive sciences,

  2. **WHY** replication rates are (sometimes) lower than expected; i.e., which factors predict/explain the replicability of effects in different behavioral, social, and cognitive sciences (e.g., QRPs, contextual influences, etc.)

  3. **HOW** an acceptable level of replicability can be achieved and maintained in different behavioral, social, and cognitive sciences.

- The "research object" that each individual project should look at is the replicability of research findings (in their respective scientific discipline).

- META-REP is an explicitly *meta*-scientific research program!

4. What kinds of projects are we looking for?

The "WHAT" question: Projects may aim at…

- developing, evaluating, comparing, and refining conceptual, methodological and statistical approaches to estimate reproducibility, robustness, "direct" replicability, and generalizability, respectively, and assess their applicability in their respective scientific discipline; and/or by

- providing a systematic picture of the reproducibility, the robustness, the "direct" replicability, and the generalizability of behavioral, social, and cognitive science findings, while taking a more heterogeneous and representative range of effects and methods – as well as discipline-specific historic and political backgrounds – into account;

- …

4. What kinds of projects are we looking for?

The "WHY" question: Projects may aim at…

- systematically comparing research practices, incentive systems, journal policies, etc. in the behavioral, social, and cognitive sciences and their respective impact on replication rates;

- re-analyzing data from existing replication projects and meta-analyses (i.e., meta-meta-analysis) with regard to individual- and system-level factors that produce biases in original and/or replication research as well as the effects of manipulation heterogeneity, measurement invariance, and sample characteristics on the heterogeneity/non-replicability of effects in their respective scientific discipline; and/or

- evaluating the impact of questionable research practices, underspecified theories, design characteristics, and/or invalid measurement models ("pseudo-measurements") on replication rates in their respective scientific discipline using new and/or simulated data.

4. What kinds of projects are we looking for?

The "HOW" question: Projects may aim at…

- developing different measures, strategies, and tools and evaluating them with regard to their plausibility, validity, acceptability, feasibility, and their positive (and potentially negative/undesired) effects; and/or

- assessing and evaluating instruments to monitor changes in norms, incentive structures, and scientific practices in their respective scientific discipline (e.g., quality assurance measures in scientific journals, funding agencies, and scientific organizations); and/or

- …

4. What kinds of projects are we looking for?

- Proposals from **various disciplines** are welcome, as long as they focus clearly on the replicability of effects in the behavioral, social, and cognitive sciences (e.g., psychology, neurosciences, psycholinguistics, sociology, behavioral economics, communication science).

- Project proposal should explicitly explain

  - which of the three questions (i.e., what, why, how) will be addressed;

  - how the suggested approach is suited to tackle the respective question(s); and

  - what the expected contribution to the overall program goals will be.

- Collaboration between individual projects is encouraged. Projects should describe how they intend to exploit the SPP's synergy potential.

- Projects should commit to openness and transparency standards. Projects may want to specify how they can make use of the infrastructure provided by the SPP/ZPID (see below).

4. What kinds of projects are we NOT looking for?

- Projects that aim at replicating one particular effect

- Projects that aim at running a meta-analysis (to estimate the mean effect size – here, we are more interested in the *heterogeneity* of effects)

- Projects that aim at merely "describing" a potential factor affecting replicability (e.g., describing research practices in different fields) instead of testing empirically whether it really affects replicability

- Projects that look at replicability outside (and with no link to) the behavioral, social, and cognitive sciences

- Projects built on untestable ideological assumptions

- Projects that have nothing to do with the program's overarching goals

- Projects that are unlikely to contribute to the expected degree of synergy in the program

5. WHAT IS THE BENEFIT OF JOINING META-REP?

1. **Events (organized by coordination project):**
   – Meetings with all PIs and project personnel (1 p.a., 2 days each)
   – Retreats with all PIs and project personnel (2 × 4 days each)
   – Program-specific interdisciplinary workshops (approx. 2 per year)
   – International conference (in Year 3)

# 5. WHAT IS THE BENEFIT OF JOINING META-REP?

2. **Infrastructure (provided by coordination project):**

   – Collaborative groupware environment operated by ZPID

   – ZPID is a one-stop research support organization for Psychology (Public Open Science Institute), offering services for entire research cycle:
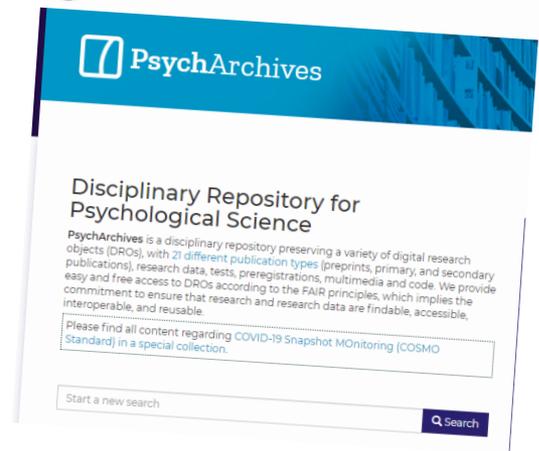
   – Ample opportunities for sharing, pooling, re-using data

   – possible forms of collaboration: adversarial collaboration, "ManyLabs" projects, cumulative theory-building, etc.

5. What is the benefit of joining META-REP?

3. **Special offers for junior researchers:**

    The coordination project will apply for funding for the following activities and measures:

    – *Treasure Box*: internal funding for small-scale collaborative mini-projects

    – Cross-location supervision network

    – External Mentorship

    – Workshops for career development inside/outside academia

    – "Gender-equality" measures / family-friendly policy

    – *Start-up funding* for advanced doctoral students (1-year stipend)

6. Proposal Submission

- Visit the META-REP website:

  https://leibniz-psychology.org/metarep

- Study the program proposal ("Einrichtungsantrag"):

  www.psycharchives.org/handle/20.500.12034/2629

- Register on the "ELAN" system (DFG's proposal submission platform):

  https://elan.dfg.de

- Study the DFG proposal submission guidelines carefully:

  www.dfg.de/formulare/50_05

  www.dfg.de/formulare/54_01

- For further questions about the program (e.g., project ideas), contact a member of the program committee (mario.gollwitzer@lmu.de)

- For technical/formal/administrative questions, contact Dr. Tanja Kollei from the DFG head office (tanja.kollei@dfg.de)

6. Proposal Submission

- Deadline for submitting project proposals: December 2, 2020

- Proposals will be evaluated by an international, independent review panel (not the program committee!)

- The final funding decision is made by the DFG (*Hauptausschuss*)

- Projects are expected to be ready to start in **October, 2021**

- Funding duration for each project: **36 months**

- Project personnel can be pre-doc or post-doc (depending on the skills needed to successfully complete the project)

- Project activities that are centrally coordinated (e.g., retreats) will be funded centrally by the coordination project; project-specific activities (e.g., travel to specific conferences) should be applied for individually

- Project funding may also include additional costs for data management (since this is a central requirement for projects in this SPP)

- In total, we expect 25 (±5) individual projects to be funded

7. Your Project Ideas (Online Survey, *N*=98)
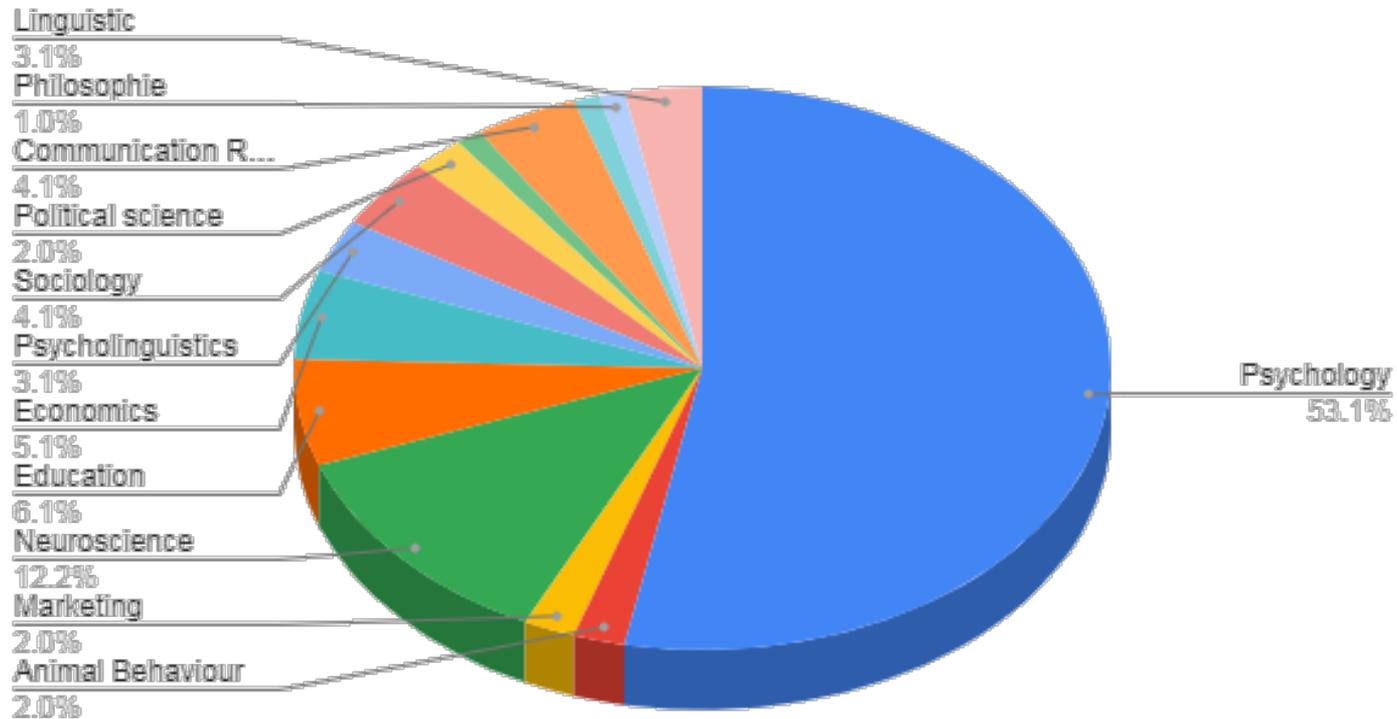
- Contributing scientific disciplines:

Pie chart of contributing scientific disciplines:
- Linguistic 3.1%
- Philosophie 1.0%
- Communication R... 4.1%
- Political science 2.0%
- Sociology 4.1%
- Psycholinguistics 3.1%
- Economics 5.1%
- Education 6.1%
- Neuroscience 12.2%
- Marketing 2.0%
- Animal Behaviour 2.0%
- Psychology 53.1%

7. Your Project Ideas
(Online Survey, *N*=98)

- Contributing scientific disciplines:
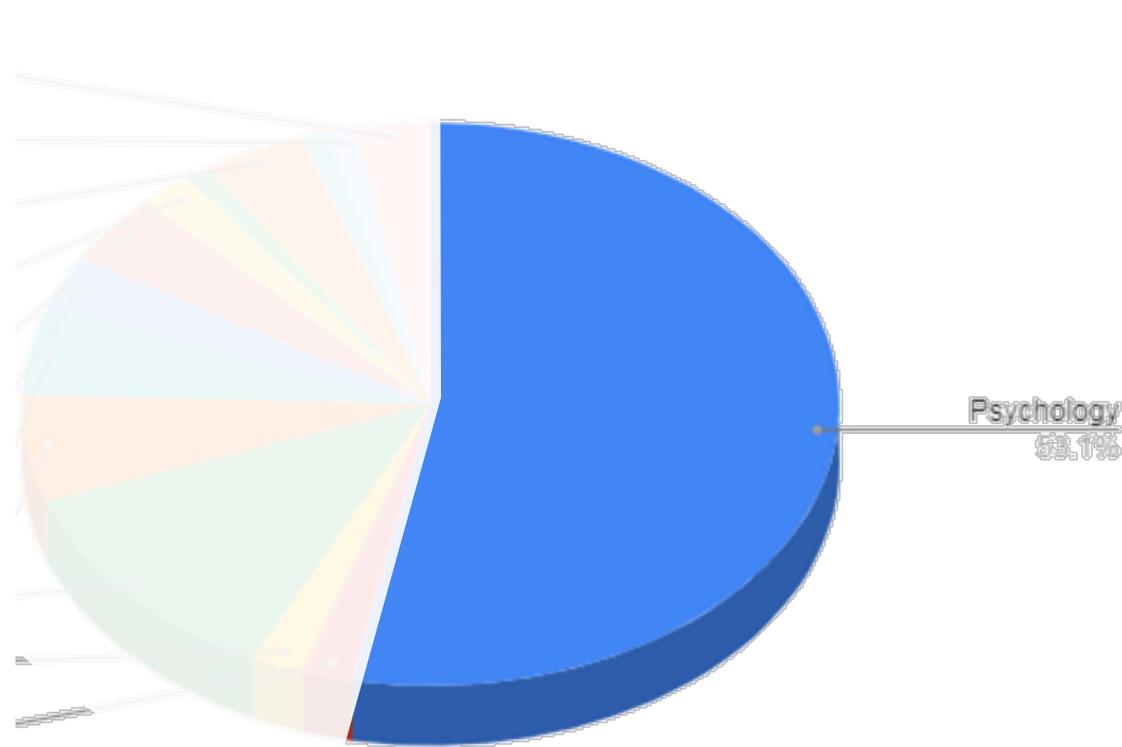
- Research areas within psychology:

Political Psychology 1.9%
History and Theory of Science 1.9%
Biological Psychology 3.8%
Educational Psychology 3.8%
Health Psychology 5.8%
Organisational Psychology 5.8%
Clinical Psychology 7.7%
Cognitive Psychology 17.3%
Methods 21.2%
Personality Psychology 13.5%
Social Psychology 17.3%
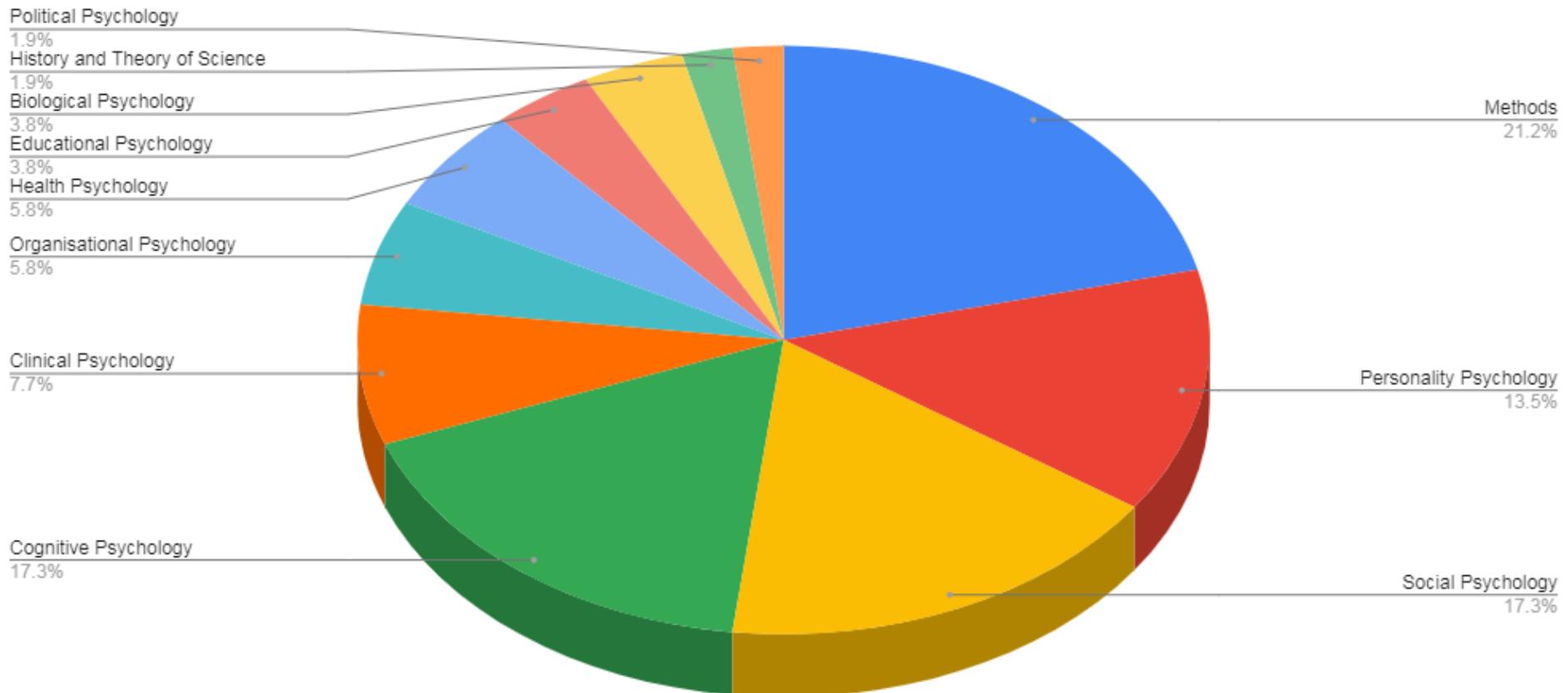
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7. Your Project Ideas (Online Survey, *N*=98)

- Which of these 3 questions will be addressed?
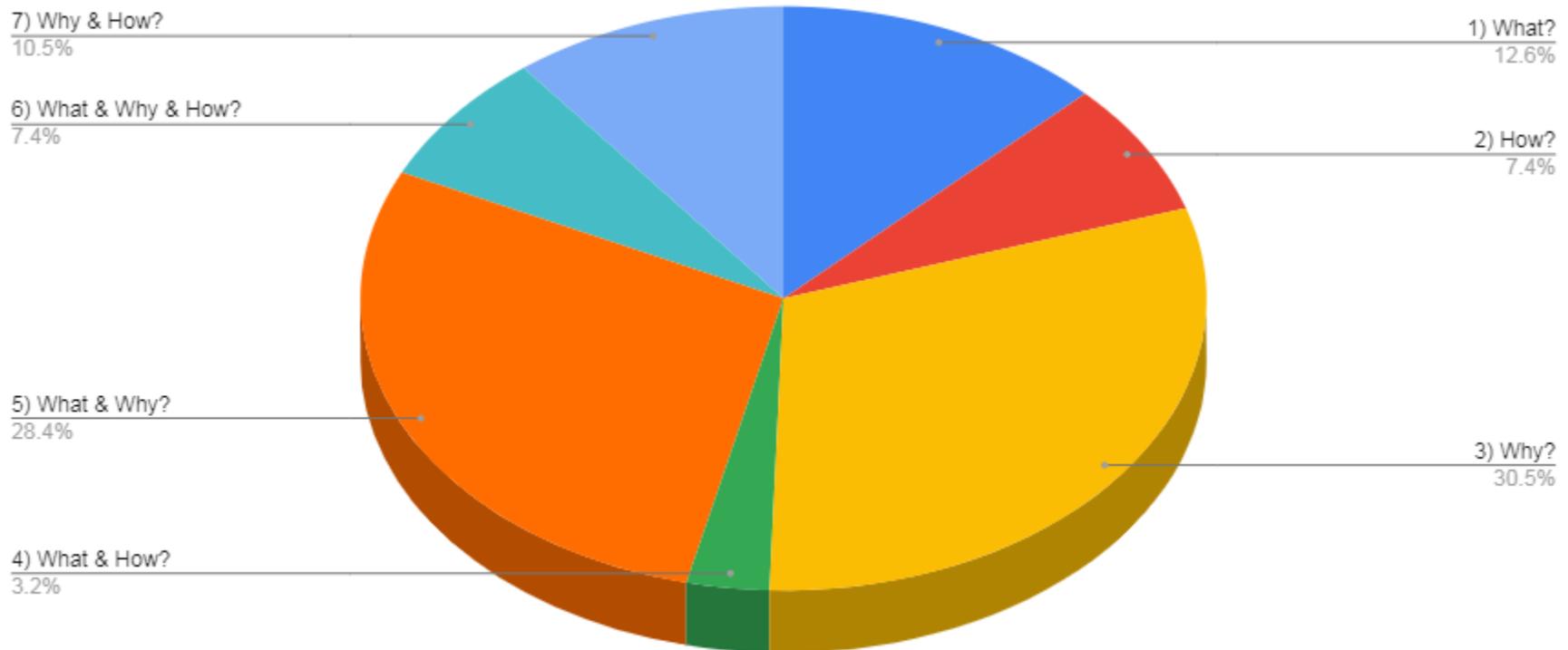
7) Why & How?
10.5%

6) What & Why & How?
7.4%

5) What & Why?
28.4%

4) What & How?
3.2%

1) What?
12.6%

2) How?
7.4%

3) Why?
30.5%

- Tentative topic of the planned project:

Pie chart: Tentative topic of the planned project

- Perception of Replicability — 2.1%
- Conceptual Work — 2.1%
- Bibliometric data/ Re-analysis — 3.2%
- Development of new statistical m… — 5.3%
- Who & why do researchers adopt… — 5.3%
- Heterogenity of effect sizes — 8.5%
- Theory evaluation, specification… — 9.6%
- Influence of analytic choices — 10.6%
- Replicability in a specific sub area — 23.4%
- Influence of measurement choices — 19.1%
- Tailored solutions: Improving repr… — 10.6%
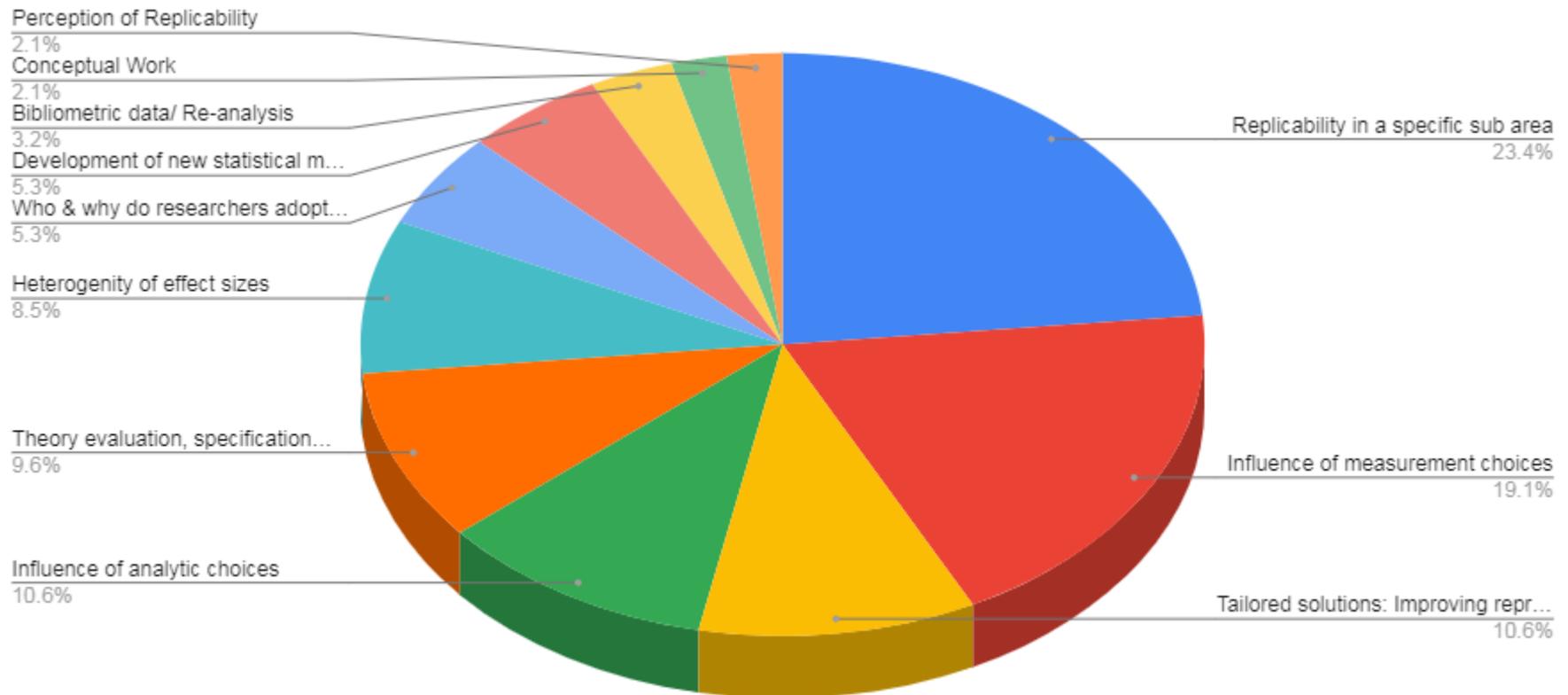
7. Your Project Ideas (Online Survey, *N*=98)

- Methodology of the planned project:

Simulation 4.3%
Administrativ data 5.3%
ManyLabs 6.4%
Meta-analysis 9.6%
Replication 14.9%
Re-analysis 18.1%
Original Experiment 21.3%
Conceptual Work 20.2%
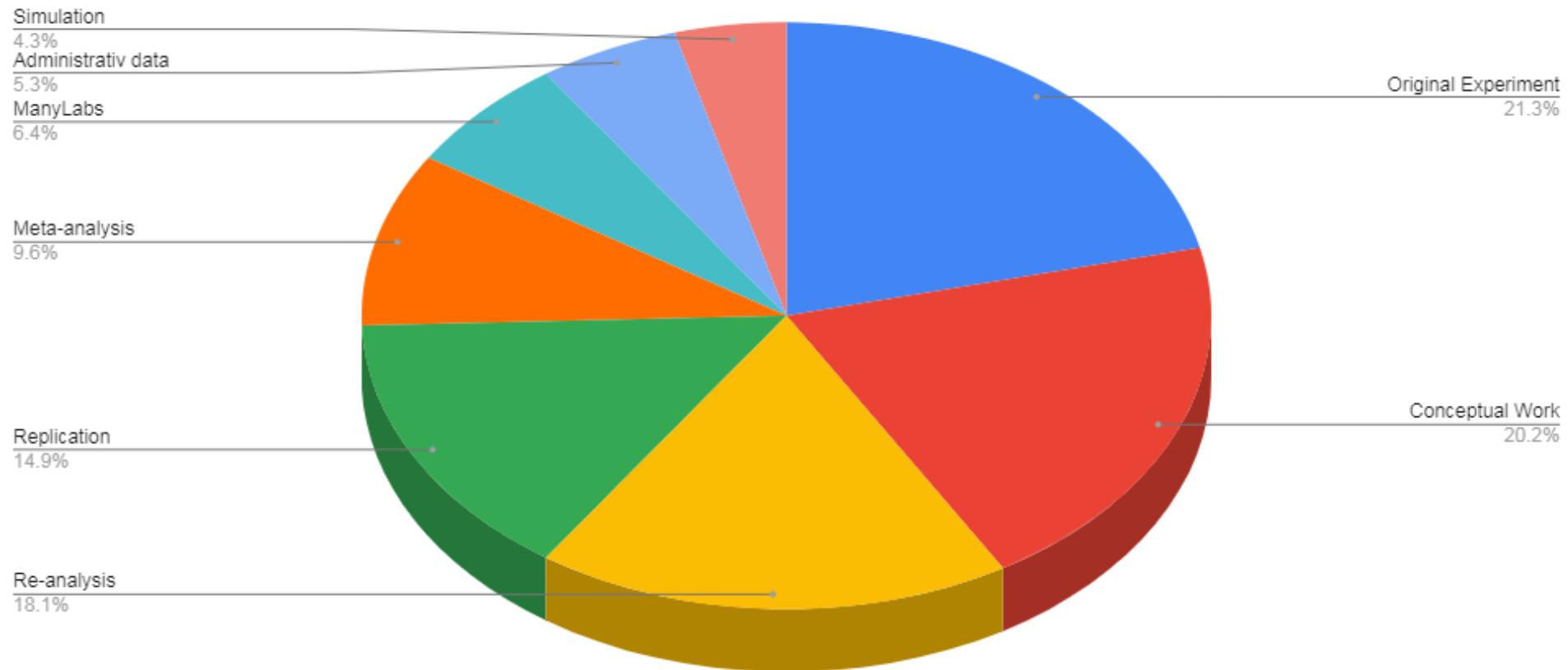
8. Questions asked in the Online Survey

1. What is the estimated volume (per project)?

2. How much integration will/should happen between the projects?

3. How to bridge the idea of a large multi-lab collaboration with the need to define a limited set of co-applicants?

4. What kind of activities have a chance to receive funding, or not, in this call?

5. Is there an intended plan for how the second phase will pan out?

8. More questions?

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THANK YOU!