**PART A:**

**A1: Describe the population you are sampling from, including its estimated size when the population is finite.**

**answer: textfield**

**A2: Can you collect data from the entire population?**

**answer: YES/NO**

**conditional: If not, complete A3.**

**A3: Describe your resource constraints, and how these limit the sample size you can collect.**

**answer: textfield**

**A4: If you are not able to specify an inferential goal (e.g., answers to B1 and B2 are ‘no’ and no answer can be provided for B3 and B4), describe why. For example, explain why it is not feasible to perform a power analysis.**

**answer: textfield**

**conditional: If filled in, complete A4a OR A4b as well.**

**A4a:** If your sample size is based on a heuristic or norm, specify what this heuristic or norm is. If possible, provide the earliest reference in which this heuristic or norm is described.

**answer: textfield**

**A4b**: State that there is no justification for your sample size, and specify any arguments you used to decide upon the sample size as well as possible.

**answer: textfield**

**A5: What is the total sample size you plan to collect (report participants and/or number of trials in each condition), taking into account a drop-out rate where relevant, based on a computed or desired final sample size?**

**answer: textfield**

**PART B:**

**INFERENTIAL GOAL: Answer EITHER B1, B2, B3, or B4.**

**B1: Will a future meta-analysis be performed, and will this study mainly serve as input for this future meta-analysis (but no inferences will be drawn from this dataset in isolation)?**

**answer: YES/NO**

**conditional: If no, complete B1a.**

**B1a:** Evaluate the probability that such a meta-analysis will be performed.

**answer: textfield**

**B2: Is there a clear need to make a decision?**

**answer: YES/NO**

**conditional: If yes, complete B2a to B2e, B4, and C.**

**B2a**: What is the relative cost of Type 1 compared to Type 2 errors (e.g., answer 4 if Type 1 errors are 4 times as costly as Type 2 errors)?

**answer: numerical**

**B2b**: What is the relative prior probability of the null hypothesis H0 compared to the alternative hypothesis H1 (e.g., answer 4 if H0 is considered 4 times as probable as H1)?

**answer: numerical**

**B2c**: What is the alpha level? STATO:0000053

**answer: numerical (between 0 and 1)**

**B2d**: What is/are the effect size(s) that power is computed for?

**answer: numerical**

**B2e**: What is the desired statistical power?

**answer: numerical (between 0 and 1)**

**B3c**: How was the sample size to reach a desired cost-benefit trade-off computed (preferably in code)?

**B3: Is your inferential goal to estimate the size of a parameter?**

**answer: YES/NO**

**conditional: If yes, complete B3a to B3b, and C3.**

**B3a**: What is the desired level of accuracy, as indicated by the width of the confidence interval.

**answer: numerical (between 0 and 1)**

**B3b: OPTIONAL:** What is the specified degree of assurance that the obtained confidence interval will be sufficiently narrow?

**answer: numerical (between 0 and 1)**

**B3c**: How was the sample size to reach a desired accuracy computed (preferably in code)?

**B4: Is your inferential goal the achieve a desired statistical power for effects of interest?**

**answer: YES/NO**

**conditional: If yes, complete B4a to B4d, and C1, C2, and C3.**

**B4a**: Describe the analysis that is planned (preferably in code).

**answer: textfield**

**B4b**: What is the alpha level? STATO:0000053

**answer: numerical (between 0 and 1)**

**B4c**: What is the statistical power? STATO:0000200

**answer: numerical (between 0 and 1)**

**B4d**: What is/are the effect size(s) that power is computed for and their effect size metric? **answer: numerical**

**B4e**: How was the sample size to reach a desired power computed (preferably in code)?

**PART C:**

**Which effect sizes are of interest?**

C1: What is the smallest effect size of interest (value and metric)?

**answer: textfield**

C1a: What is the justification to consider this the smallest effect size of interest?

**answer: textfield**

C2: What is the minimal statistically detectable effect?

**answer: numeric**

C2a: How was the minimal statistically detectable effect computed (preferably in code).

**answer: textfield**

C3: What is the expected effect size, and why?

**answer: textfield**

C3a: What is the source of the expected effect size? E.g., a meta-analysis, a previous study, or a subjective prior belief. If applicable, cite the source, and add a direct quote or table number that contains the effect size estimate.

**answer: textfield**

C3b: Can the effect size from the source be expected to generalize to the planned study? For a meta-analyses with large heterogeneity, what is the effect size in the most heterogenous subset?

**answer: textfield**

C3c: How large is the uncertainty of the effect size estimate, and how is this uncertainty taken into account?

**answer: textfield**

C3d: Is there a risk of bias in the effect size estimate, and if relevant, is the source effect size adjusted in any way?

**answer: textfield**

C4: What is the distribution of effect sizes in this research area? Add a citation to a meta-meta-analysis, where possible.

**answer: textfield**

C5: Which effect sizes will the design be sensitive to detect (e.g., effect sizes it has 80%, 90% and 95% power for), and how do these effect sizes relate to C1-C4?

**answer: textfield**

C6: What is the width of the confidence interval around the effect size, which effect sizes are expected to be excluded by it, and how are these related to C1-C4?

**answer: textfield**