Appendices

A The Metadata Schema

Below is the proposed schema in full. The first two columns name the field and provide a short description. Column 3 defines the encoding scheme which describes whether the field permits only controlled entries, free text, numeric values, etc. Column 4 specifies the "cardinality" of the field, or the minimum and maximum number of entries. A minimum of 0 means the field is optional. A maximum of n means the field can be repeated multiple times. For example, a field with cardinality (0..1) is optional and unique (such as the abstract of the study), whereas a field with cardinality (1..n) must contain at least one entry and can contain multiple (such as the list of authors). Fields may be designated as optional if we consider them useful for potential secondary uses of the data, but they may be not applicable in all cases or not known to the contributor. The last column is not part of the schema but provides some notes on the suggested implementation of an RCT data catalog at the back and front end, such as data entry support and display options.

As described in the text, many metadata fields below are adapted or taken from existing schemata, and where possible we kept field definitions similar to their sources to facilitate the mapping of fields. Sections I (Basic Information), II (Study Population), V (Data) and VII (External Resources) are in large parts similar or identical to World Bank IHSN fields or the underlying DDI fields. Section III (Outcomes and Interventions) borrows extensively from ClinicalTrials.gov. Some AEA RCT Registry fields are referenced in section VI (Ethics and Research Transparency). All sections except I contain at least some new fields, and section IV (Study Design) is new in many parts. The GitHub repository contains a full crosswalk between schemata.

Table	Legend
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Bolded text	Denotes	a set of repeatable questions (a "loop")
Encoding scheme	CV	Controlled vocabulary
Cardinality	01	Optional and non-repeatable
	0n	Optional and repeatable
	11	Mandatory and non-repeatable
	1n	Mandatory and repeatable

The Metadata Schema I. Basic Information Field

Field	-	Description	Encoding	Cardin- ality	Programming Notes
I.1.	Title	The name of the study.	Free text	11	
1.2.	Authors/owners: The person data. This list may differ from the	Authors/owners: The person(s), corporate body, or agency responsible for the substantive and intellectual content of the data. This list may differ from the authors named on an associated paper or grant.	content of the		
	I.2.A. Authors/owners: Name	Use "surname, first name" format.	Free text	1n	Loop: assign unique ID to reference each author.
	I.2.B. Authors/owners: Affiliation	Author's affiliated institution at the time of data creation. Can be the same as above if the owner is an agency.	Free text	1n	
I.3.	Abstract	A summary describing the purpose, nature, and scope of the RCT and data collection, special characteristics of its contents, and major subject areas covered.	Free text	01	
I.4.	Topic classification	The broad substantive topic(s) covered by the data.	CV	1n	Backend: format as "Select all that apply."
I.5.	Version	Version number of the study entry at the appropriate level.	Numeric	N/A	Automatically generated.
1.6.	Version date	Version date of the study entry at the appropriate level.	Format: YYYY-MM- DD	N/A	Automatically generated.
H.	II. Study Population				
Field		Description	Encoding	Cardin- ality	Programming Notes
II.1.	Country of intervention	The country or countries in which the intervention was implemented, even if the study did not cover the entire country.	CV: ISO country codes.	1n	Backend: format as "Select all that apply."
2	Geographical coverage	The geographic level at which the data is representative, within the country of intervention and conditional on the inclusion / exclusion criteria. Provides the total geographic scope of the data and, if needed, additional geographic selection criteria. Entries may be region or state names, along with qualifiers such as "urban areas only", etc. Note that a study can for example have national coverage even when some districts are not included, as long as all districts were eligible for sampling as part of the sampling strategy.	Free text	11	Reference IV.2-3 "Study Sampling Method".
II.3.	II.3. Inclusion/exclusion criteria	The criteria to determine eligibility for inclusion in the study and randomized assignment. In general, it should be possible to tell from the country, geographical coverage, unit of randomization, and inclusion / exclusion criteria whether a given individual or unit (hypothetical or real) is a member of the population that is the object of the research and from which the sample was drawn.	Free text	11	Reference IV.2-3"Study Sampling Method".
II.4.	Unit of randomization	The level of treatment assignment: individuals, locations, facilities, groups, etc. Also referred to as the level of clustering. The level of treatment assignment/unit of randomization may be the same as the the unit of observation.	CV A	11	
II.5.	Unit of randomization: Targeted study sample size	The targeted number of randomization units pooled over all study arms and periods or phases of random assignment (waves). Include if an approximate target was used.	Numeric	01	
II.6.	Unit of randomization: Actual study sample size	The actual number of randomization units pooled over all study arms and periods or phases of random assignment (waves). Count only randomization units for which an outcome of one observational unit was measured at least once across all post-intervention data collection cycles.	Numeric	11	

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Field	T	Description	Encoding	Cardin- ality	Programming Notes
III.1	Outcomes: Measurements used units. Please repeat the informa	III.1. Outcomes: Measurements used to determine the effect of an intervention/treatment/program on experimental subjects or units. Please repeat the information for each main outcome measure.	ntal subjects or		
	III.1.A. Outcome: Name	A brief descriptive name used to refer to the outcome measure.	Free text	1n	Loop: assign unique ID to reference each outcome.
	III.1.B. Outcome: Category	The broad category of the specific outcome measure.	CV	1n	CV under development. Collect responses for updating the CV.
	III.1.C. Outcome: Description	Additional information about the outcome measure, such as importance to the analysis (e.g., primary vs. secondary outcome), unit of measurement (e.g. meters), format/data type (e.g. categorical), distribution class (for numeric outcomes, e.g. count, binary, real numbers), range of possible values (e.g. 0-100), as well as a description of how the outcome was constructed (if relevant).	Free text	0n	
	III.1.D. Outcome: Collected pre-treatment?	Is a measurement of this outcome available before any treatment or notification of treatment took place ("at baseline")?	CV: Yes / No	1n	
III.2.		Interventions: An intervention is defined as a process or action that is the focus of an RCT or experiment. The intervention may be a policy change (such as the right to buy an amount of subsidized food), an experimental condition (such as a high or low cost of contributing to a public good in a lab experiment), an encouragement, nudge, or information treatment (such as text messages or TV ads), etc. Different variants of a process or action are a distinct intervention if they are separately randomly assigned. Receiving no treatment is not an intervention. Please repeat the information for each intervention tested in the study.	he interventior (such as a high reatment (such are separately rvention testec		
	III.2.A. Intervention: Name	A brief descriptive name used to refer to the intervention.	Free text	1n	Loop: assign unique ID to reference each intervention.
	III.2.B. Intervention: Type	The category or type of intervention.	CV	1n	CV under development. Collect "other" responses for updating the CV.
	III.2.C. Intervention: Description	Free text description of the details of the intervention.	Free text	0n	
III.3.	Intervention assignment strategy	The strategy used for assigning interventions to study arms.	CV B	11	
III.4.	Assignment strategy description	A description of the intervention assignment strategy. If relevant, provide details such as the timing of the different interventions in a given study arm in more complex designs such as phase-in and crossover. If the treatment assignment was carried out using stratified randomization, please explain here how the strata were formed, and if possible, name the stratification variables.	Free text	01	
III.5.	III.5. Number of arms	The number of subgroups of participants in the randomized trial that receive none, one, or several specific interventions (i.e., arms) according to the trial's protocol. For a trial with multiple periods or phases of random assignment (waves) that have different numbers of arms, the maximum number of arms from all periods or phases.	Numeric	11	Backend: Restrict to integers > 1 .

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Field	Description	Encoding	Cardin-	Cardin- Programming Notes
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III.6. Arms: Subgroups of participants that receive no Please repeat the information for each study arm.	III.6. Arms: Subgroups of participants that receive none, one, or several specific interventions according to the trial's protocol. Please repeat the information for each study arm.	trial's protocol	_;	
III.6.A. Arm: Name	A brief descriptive name used to refer to the study arm.	Free Text	1n	Loop: assign unique ID to reference each arm. Use III.5 to generate required number of arms. Pre-populate with generic names, e.g. Arm 1, Arm 2.
III.6.B. Arm: Targeted sample size.	III.6.B. Arm: Targeted sample The targeted number of randomization units assigned to this study arm size.	Numeric	0n	Backend: Restrict to integers > 0. Cross check sum with II.5.
III.6.C. Arm: Actual sample size.	The actual number of randomization units assigned to this study arm across all periods or phases of random assignment (waves). Count only randomization units for which at least one outcome of one observation unit was measured post intervention.	Numeric	1n	Backend: Restrict to integers ≥ 0. Cross check sum with II.6.
III.6.D. Arm: interventional cross-reference	interventional Indicate which interventions are provided in this arm of the study.	Free text	1n	Implement as checkboxes using III.2.A via unique intervention IDs generated.
III.7. Intervention start date	The first date when the administration of any of the interventions (after random assignment) began. Please enter the earliest start date of all interventions. If any element of the date is unspecified, use " X " as input.	Format: YYYY-MM- DD	11	Backend: give examples, e.g. 2016-05-XX or 202X-XX-XX.
III.8. Intervention end date	The last date when the administration of any of the interventions ended. Format: Please enter the last end date of all interventions. any element of the date YYYY-MM-is unspecified, use "X" as input.	Format: YYYY-MM- DD	11	

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IV. Study Design				
Field	Description	Encoding	Cardin- ality	Cardin- Programming Notes ality
IV.1. Prior work	Does this study extend or rely on any prior study? Examples are collecting additional outcomes for interventions randomly assigned in a previous study, expanding the sample, or adding a treatment arm.	CV: Yes / No / Unknown	11	If "yes" is selected, reference VII. External Resources for information on the prior study.
IV.2. Study sampling method: Type	The type of sampling method used to select the randomization units to be included in the experiment. If sampling is performed in several stages, please select "Probability – multistage," or "Mix of probability and non-probability sampling" and provide additional details in the description field.	CV C	11	
IV.3. Study sampling method: Description	IV.3. Study sampling method: De an overall description of the procedure for sampling the randomization scription units included in the study; if the sampling was performed in several stages, consider listing them out with an explanation. Include a description of the method used to obtain the targeted number of randomization and observation units (e.g., power calculations), along with any information related to the sampling that is relevant to users comparing targeted and actual units of randomization.	Free text	01	Backend: reference unit of observation in V.1.I.
IV.4. Covariates: Individual	Please select all individual-level covariate categories included in this study. CV D	CV D	0n	Backend: format as "Select all that apply." If no option is selected, ask user to confirm.

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Field	Description	Encoding	Cardin- ality	Encoding Cardin- Programming Notes ality
IV.5. Covariates: Group	Please select all cluster- or group-level covariate categories included in this study.	CV E	0n	Backend: format as "Select all that apply." If no option is selected, ask user to confirm.
IV.6. Study was designed to analyze	Please select all types of treatment effects the study was designed to measure or analyze (i.e., the randomization was designed accordingly and the data includes the necessary information, such as intervention take-up).	CV F	0n	Backend: format as "Select all that apply." If no option is selected, ask user to confirm. Collect "other" responses for updating the CV.
IV.7. Compliance	Please describe what forms of noncompliance with any of the interventions are possible or observed, and, if available, how treatment compliance is measured in the data and what the take-up rates are. Noncompliance occurs when not all units take up or receive the assigned intervention, or when at least some units receive an intervention they were not assigned.	Free text	01	Reference the implications of selected options "LATE or TOT" and "ATE" for compliance in IV.6.

>	v. Data					
Field	P		Description	Encoding	Cardin- ality	Programming Notes
V.1.		sts: Information about the inct from data files. A set an outcome measure, andent data source or modent data	Datasets: Information about the datasets included in this study and the methodology employed in data collection. Datasets are distinct from data files. A set of records may constitute a separate dataset if it contains information central to the analysis, such as an outcome measure, and (i) consists of observational units from a distinct study population or (ii) comes from an independent data source or mode of data collection. Please repeat the following elements for each dataset.	ction. Datasets to the analysis comes from an	s , t	
	V.1.A.	V.1.A. Dataset: Name	A brief descriptive name used to refer to the dataset.	Free text	1n	Loop: assign unique ID to reference each dataset.
	V.1.B.	Dataset: Unit of observation	V.1.B. Dataset: Unit of obser- The basic unit of analysis or observation that the dataset describes. The vation	CV A	1n	Backend: multiple choice (1 option per dataset).
	V.1.C.	V.I.C. Dataset: Unit of observation: Targeted sample size	The targeted number of observation units pooled over all study arms and periods or phases of random assignment (waves). Include if an approximate target was used.	Numeric	0n	Backend: Restrict to integers > 0.
	V.1.D.	V.1.D. Dataset: Unit of obser- The actual vation: Actual sample size	The actual number of observation units included in the dataset.	Numeric	1n	Backend: Restrict to integers > 0.
	V.1.E.	V.1.E. Dataset: Kind of data	Please select all types of data included in the dataset.	CV G	1n	Backend: format as "Select all that apply."
	V.1.F.	V.1.F. Dataset: Time method	The time method or time dimension of the dataset.	СУ Н	1n	Backend: multiple choice (1 option per dataset).
	V.1.G.	V.I.G. Dataset: Number of cy-cles dataset?	How many cycles (data collection or measurement rounds) are in the dataset?	Numeric	1n	Backend: Restrict to integers > 0. Cross-validate with V.1.F. (e.g. panel data vs. only 1 included cycle).
	V.1.H.	Dataset: Mode of data collection	The manner(s) in which the interview was conducted or information was gathered.	CV I	0n	Backend: format as "Select all that apply."
	V.1.I.	Dataset: Observational unit sampling method: Description	Dataset: Observational A description of the procedure used to select the observational units unit sampling method: within the randomization units if the unit of observation is different from the unit of randomization. If sampling was performed in several stages, consider listing them out with an explanation. Include any information related to the sampling that is relevant to users comparing targeted and actual units of observation.	Free text	0n	Backend: reference power calculations used to determine targeted number of observations in IV.3.

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Field			Description	Encoding	Cardin- ality	Programming Notes
V.1.J.	I.J. Dataset: weights	Sampling	The sampling procedures used may make it necessary to apply weights to produce accurate statistical results. Are sampling weights included in this dataset?	CV: Yes / No	1n	
V	V.1.K. Dataset: l collection	Dataset: Notes on data collection	Brief description of the data collection or compilation. Include any relevant information such as which of the dataset's cycles was collected pre-treatment, during treatment, or post-treatment; reasons for differences between time period covered by the data and dates of data collection; quality assurance protocols such as number of call-backs; etc.	Free text	0n	
, V	1.L. Dataset: each cycle the inform	Cycles: Informa e. These are often nation for each cyc	V.1.L. Dataset: Cycles: Information on the time period covered by the data and, if different, period of data collection in each cycle. These are often identical but may differ in retrospective surveys or administrative data. Please repeat the information for each cycle (wave or round) included in this dataset.	collection in lease repeat		
	V.1.L.i.	Dataset: Cycle: Cycle name	A brief descriptive name used to refer to the cycle (data collection or measurement rounds), such as study population census, baseline, endline, etc.	Free text	1n	Loop: use unique dataset ID and assign unique ID to reference each cycle within the dataset.
	V.1.L.ii.	Dataset: Cycle: Start of time period covered	Start date of the time period covered by the data in this data collection cycle. If any element of the date is unspecified, use "X" as input.	Format: YYYY-MM- DD	1n	
	V.1.L.iii.	Dataset: Cycle: End of time period covered	End date of the time period covered by the data in this data collection cycle. If any element of the date is unspecified, use "X" as input.	Format: YYYY-MM- DD	1n	
	V.1.L.iv.	Dataset: Cycle: Start of data collection	Start date of the data collection, if different from the start date of the time period covered by this data collection cycle. If any element of the date is unspecified, use "X" as input.	Format: YYYY-MM- DD	0n	
	V.1.L.v.	Dataset: Cycle: End of data collection	End date of the data collection, if different from the end date of the time period covered by this data collection cycle. If any element of the date is unspecified, use " X " as input.	Format: YYYY-MM- DD	0n	
ν.	1.M.Dataset:	Arms: Please re	V.1.M.Dataset: Arms: Please repeat this information for each treatment arm of this study.			
	V.1.M.i.	Dataset: Arm: Name	A brief descriptive name used to refer to the study arm.	Free text	1n	Loop: use unique arm ID and unique dataset ID to reference each arm within the dataset. Cross check/pre-fill with arm names in III.6.A.
	V.1.M.ii.	Dataset: Arm: Targeted number of observational units	The targeted number of observational units in this arm. Include if an approximate target was used.	Numeric	0n	Cross check sum with V.1.C.
	V.1.M.iii.	Dataset: Arm: Actual number of observational units	The actual number of observational units in this arm included in the dataset. Leave empty if this data set does not have experimental arms (e.g. study population census prior to randomization).	Numeric	0n	Cross check sum with V.1.D.

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Field	ਰ	Description	Encoding	Cardin- ality	Programming Notes
VI.1	VI.1. Ethics Review: Include information on	nation on any ethics review conducted.			
	VI.1.A. Ethics Review: Reviewing in ginstitution	The name or hosting institution of the ethics review body.	Free text	0n	
	VI.1.B. Ethics Review: Review protocol number	IRB protocol number or case reference.	Free text	0n	
VI.2.	. Research ethics documentation	Select all documentation available discussing the ethics of the research or documenting the consent process.	CA J	0n	Back end: format as "select all that apply". Collect "other" responses for updating the CV.
VI.3.	VI.3. Registration/pre-specification	Was the experiment registered or pre-specified? Select all documentation available with time-stamped/version-controlled records.	CV K	0n	Back end: format as "select all that apply". Collect "other" responses for updating the CV.
VI.4.	VI.4. Funding agency/sponsor	The source(s) of funds for production of the work. Please list all organizations (local, national, or international) that have materially contributed, in cash or in kind, to the data collection or compilation.	Free text	0n	
VI.5.	VI.5. Implementation partner	Other parties or persons that have played a significant role in implementing the interventions or collecting the data. Please name individuals' affiliations and roles in their organization at the time of implementation.	Free text	0n	
VII.	. External Resources				
Field	ب	Description	Encoding	Cardin- ality	Programming Notes
VII.	1. Resources: Information on any access conditions, as well as oth studies the work extends or built related records.	VII.1Resources: Information on any related materials. Include the location(s) of the data, separating locations with different access conditions, as well as other information helpful to data users, such as related publications, information on prior studies the work extends or builds on, questionnaires or codebooks, and any ethics documentation or research-transparency related records.	s with differen nation on prio ch-transparenc	y y	Cross-reference/prefill information in IV.1 (prior work/related studies), V.1 (listed datasets), VI.2 (research ethics documentation), and VI.3 (registration/prespecification)
	VII.1.A.External resource:	Please select all external resource types included in this location or citation.	CA F	1n	Check boxes to select all that apply.
	VII.1.B.External resource: Description	A brief description or name of the resource(s).	Free text	0n	
	VII.1.C.External resource: Citation	Complete bibliographic reference containing all of the elements of a citation that can be used to cite the work following a standard format such as APA, MLA, Chicago, etc.	Free text	1n	
	VII.1.D External resource: Link (DOI/URL)	The DOI or, if DOI is not available, URL of the resource. Leave blank if neither is available.	Free text	0n	
	VII.1.E.External resource: Access policy	Is access to the resource restricted in any way? If known, provide a description of the restrictions and/or the process for accessing the	Free text	0n	

B The Controlled Vocabularies

Below is a list of the controlled vocabularies for text fields in the metadata schema, labeled alphabetically for referencing. The first two columns contain parent categories and detailed child categories. In some controlled vocabularies, the parent category can be selected, whereas in others, the user has to select one of the child categories (following the conventions of the source CV); this is indicated by the use of italics for the parent. The third column contains "Notes" on the CV options.

Options added to existing CVs are indicated by underlined text. If a CV is labeled as modified, but no entries are underlined (as in Controlled vocabulary "D. Covariates: Individual"), this indicates that some categories were dropped or consolidated or that the "Notes" were edited or added.

Table Legend	
italics	Parent categories in italics cannot be selected and are displayed for organizational purposes only. Selecting one of the child categories is required.
$\underline{\text{underline}}$	Underlined fields were added or modified from the original source.

Table 2: Controlled Vocabularies	
A. Unit of Obs./Randomization (Source: Adapted from DDI) Notes	Notes
1. Individual	Any individual person, irrespective of demographic characteristics, professional, social or legal status, or affiliation.
1.1 Political/social leader	
1.2 Health provider	e.g. Doctors, nurses, midwives, etc.

A house, apartment, mobile home, group of rooms, or single room that is occupied (or intended for occupancy) as separate living quarters in which the occupants live and eat separately from other building occupants.

Housing Unit

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6. Other group 7. Event/process 7. Event/process 7. Event/process 8. Geographic unit admits a profited and may include multiple "events" or gradual changes that ul portate owner time, and may include multiple "events" or gradual changes that ul portate profited connections, attended to a particular result. Examples: criminal offenses, riots, meet sports competitions, terrorist attacks, natural disasters like floods, etc. Processes place over time, and may include multiple "events" or gradual changes that ul or are projected to lead, to a particular result. Examples: criminal political campaigns, medical treatments, education, athletes' training, etc. 8. Geographic unit administrative boundaries. 8. Physical division of a school or university/college and administrative boundaries. 8. A Census tract, zip code, or other neighborhood-level geographic division 8. Syllage, community, or other town-level geographic division 8. Syllage, community, or other upper-level geographic division 8. Syllage, community, or other upper-level geographic division 9. Time unit Any period of time: year, week, month, day, or bimonthly or quarterly periods, 11. Other	Ą.	A. Unit of Observation/Randomization (Cont.) Notes	Notes
Event/process Geographic unit 8.1 Physical division of a firm or business 8.2 Physical division of a school or university/college 8.3 Agricultural plot or physical unit 8.4 Census tract, zip code, or other neighborhood-level administrative unit based on geographic division 8.5 Village, community, or other town-level geographic division 8.6 District, province, or other upper-level geographic division Time unit Text unit Other	9.	Other group	Two or more individuals assembled together or having some unifying relationship.
Geographic unit 8.1 Physical division of a firm or business 8.2 Physical division of a school or university/college 8.3 Agricultural plot or physical unit 8.4 Census tract, zip code, or other neighborhood-level administrative unit based on geographic division 8.5 Village, community, or other town-level geographic division 8.6 District, province, or other upper-level geographic division Time unit Text unit Other	۲-	Event/process	Any type of incident, occurrence, or activity. Events are usually one-time, individual occurrences, with a limited, or short duration. Examples: criminal offenses, riots, meetings, elections, sports competitions, terrorist attacks, natural disasters like floods, etc. Processes typically take place over time, and may include multiple "events" or gradual changes that ultimately lead, or are projected to lead, to a particular result. Examples: court trials, criminal investigations, political campaigns, medical treatments, education, athletes' training, etc.
8.1 Physical division of a firm or business 8.2 Physical division of a school or university/college 8.3 Agricultural plot or physical unit 8.4 Census tract, zip code, or other neighborhood-level administrative unit based on geographic division 8.5 Village, community, or other town-level geographic division 8.6 District, province, or other upper-level geographic division Time unit Text unit Other	∞ .	Geographic unit	Any entity that can be spatially defined as a geographic area, with either natural (physical) or administrative boundaries.
8.2 Physical division of a school or university/college 8.3 Agricultural plot or physical unit 8.4 Census tract, zip code, or other neighborhood-level administrative unit based on geographic division 8.5 Village, community, or other town-level geographic division 8.6 District, province, or other upper-level geographic division Time unit Text unit Other			e.g. plants, production lines
8.3 Agricultural plot or physical unit 8.4 Census tract, zip code, or other neighborhood- level administrative unit based on geographic division 8.5 Village, community, or other town-level geographic division 8.6 District, province, or other upper-level geographic division Time unit Text unit Other		8.2 Physical division of a school or university/college	e.g. classrooms, buildings
8.4 Census tract, zip code, or other neighborhood-level administrative unit based on geographic division 8.5 Village, community, or other town-level geographic division 8.6 District, province, or other upper-level geographic division Time unit Text unit Other		8.3 Agricultural plot or physical unit	e.g., stable, greenhouse)
based on geographic division 8.5 Village, community, or other town-level geographic division 8.6 District, province, or other upper-level geographic division Time unit Text unit Other		8.4 Census tract, zip code, or other neighborhood-level administrative unit	
8.5 Village, community, or other town-level geographic division 8.6 District, province, or other upper-level geographic division Time unit Text unit Other		based on geographic division	
8.6 District, province, or other upper-level geographic division Time unit Text unit Other		8.5 Village, community, or other	
upper-level geographic division Time unit Text unit Other		8.6 District, province, or other	
Time unit Text unit Other		upper-level geographic division	
Text unit Other	6	Time unit	Any period of time: year, week, month, day, or bimonthly or quarterly periods, etc.
11. Other	10.	Text unit	Books, articles, any written piece/entity.
	11.	Other	

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;	Parallel	Arms are assigned to one (or no) intervention in parallel for the duration of the intervention(s).
2. F	Factorial	Two or more interventions are partially or fully cross-randomized to arms and evaluated in parallel.
3.	Crossover	Arms are assigned to different interventions or combinations of interventions (including no intervention) during different phases of the study.
4. <u>C</u>	<u>Other</u>	

ე	C. Study Sampling Method (Source: DDI)	Notes
- i	Total universe (population)	All units (individuals, households, organizations, etc.) of a target population are included in the randomization. For example, if the target population is defined as the members of a trade union, all union members are invited to participate in the study. Also called "census" if the entire population of a regional unit (e.g. a country) is selected.
6.	Probability	All units (individuals, households, organizations, etc.) of a target population have a non-zero probability of being included in the randomization sample and this probability can be accurately determined. Use this broader term if a more specific type of probability sampling is not known or is difficult to identify.
	2.1 Simple random	All units of a target population have an equal probability of being included in the randomization sample. Typically, the entire population is listed in a "sample frame", and units are then chosen from this frame using a random selection method.
	2.2 Systematic random	A fixed selection interval is determined by dividing the population size by the desired sample size. A starting point is then randomly drawn from the sample frame, which normally covers the entire target population. From this starting point, units for the randomization sample are chosen based on the selection interval. Also known as interval sampling.
	2.3 Stratified	The target population is subdivided into separate and mutually exclusive segments (strata) that cover the entire population. Independent random samples are then drawn from each segment. For example, in a national public opinion survey the entire population is divided into two regional strata: East and West. After this, randomization units are drawn from within each region using simple or systematic random sampling. Use this broader term if the specific type of stratified sampling is not known or difficult to identify.
	2.3.1 <u>Stratified</u> : Proportional stratified	The target population is subdivided into separate and mutually exclusive segments (strata) that cover the entire population. Independent random samples are then drawn from each segment. Use this broader term if the specific type of stratified sampling is not known or difficult to identify.
	2.3.2 Stratified: Disproportional stratified	The target population is subdivided into separate and mutually exclusive segments (strata) that cover the entire population. In disproportional sampling the number of units chosen from each stratum is not proportional to the population size of the stratum when viewed against the entire population. The number of sampled randomization units from each stratum can be equal, optimal, or can reflect the purpose of the study, like oversampling of different subgroups of the population.
	2.4 Cluster	The target population is divided into naturally occurring segments (clusters) and a probability sample of the clusters is selected. Data are then collected from all units within each selected cluster. Sampling is often clustered by geography, or time period. Use this broader term if a more specific type of cluster sampling is not known or is difficult to identify.
	2.4.1 Cluster: Simple random	The target population is divided into naturally occurring segments (clusters) and a simple random sample of the clusters is selected for randomization. Data are then collected from all units within each selected cluster. For example, for a sample of students in a city, a number of schools would be chosen using the random selection method, and then all of the students from every sampled school would be included.
	2.4.2 Cluster: Stratified random	The target population is divided into naturally occurring segments (clusters); next, these are divided into mutually exclusive strata and a random sample of clusters is selected from each stratum. Data are then collected from all units within each selected cluster. For example, for a sample of students

ΰ	C. Study Sampling Method (Cont.)	Notes
		in a city, schools would be divided into two strata by school type (private vs. public); schools would be then randomly selected from each stratum, and all of the students from every sampled school would be included.
	2.5 Multistage	Sampling is carried out in stages using smaller and smaller units at each stage, and all stages involve a probability selection. The type of probability sampling procedure may be different at each stage. For example, for a sample of students in a city, schools are randomly selected in the first stage. A random sample of classes within each selected school is drawn in the second stage. Students are then randomly selected from each of these classes in the third stage.
င်း	Non-probability	The selection of randomization units (individuals, households, organizations, etc.) from the target population is not based on random selection. It is not possible to determine the probability of each element to be sampled. Use this broader term if the specific type of non-probability is not known, difficult to identify, or if multiple non-probability methods are being employed.
	$3.1 \frac{\text{Availability}}{\text{Availability}}$	The sample selection is based on the units' accessibility/relative ease of access. They may be easy to approach, or may themselves choose to participate in the study (self-selection). Researchers may have particular target groups in mind but they do not control the sample selection mechanism. Also called "convenience" or "opportunity" sampling.
	3.2 <u>Purposive</u>	Randomization units are specifically identified, selected and contacted for the information they can provide on the researched topic. Selection is based on different characteristics of the independent and/or dependent variables under study, and relies on the researchers' judgement. The study authors, or persons authorized by them have control over the sample selection mechanism and the universe is defined in terms of the selection criteria. Also called "judgement" sampling. Some types of purposive sampling are typical/deviant case, homogeneous/maximum variation, expert, or critical case sampling.
	3.3 Quota	The target population is subdivided into separate and mutually exclusive segments according to some predefined quotation criteria. The distribution of the quotation criteria (gender/age/ethnicity ratio, or other characteristics, like religion, education, etc.) is intended to reflect the real structure of the target population or the structure of the desired study population. Non-probability samples are then drawn from each segment until a specific number of randomization units has been reached.
	3.4 Respondent assisted	Randomization units are identified from a target population with the assistance of units already selected (adapted from "Public Health Research Methods", ed. Greg Guest, Emily E. Namey, 2014). A typical case is snowball sampling, in which the researcher identifies a group of units that matches a particular criterion of eligibility. The latter are asked to recruit other members of the same population that fulfill the same criterion of eligibility (sampling of specific populations like migrants, etc.).
4	Mix of probability and non-probability sampling	Sample design that combines probability and non-probability sampling within the same sampling process. Different types of sampling may be used at different stages of creating the randomization sample. For example, for a sample of minority students in a city, schools are randomly selected in the first stage. Then, a quota sample of students is selected within each school in the second stage. If separate samples are drawn from the same target population using different sampling methods, the type of sampling procedure used for each sample should be classified separately.
٠ċ	Other	

ij	Sex	1. Housing/property characteristics or amenities
2	Age	2. Demographics of household members or household structure
33	Race/ethnicity	3. Household assets - ownership or debt
4.	Religion	4. Household income
5.	Citizenship	5. Farm characteristics
6.	Marital status/registered partnership	6. Demographic characteristics of town, village or other governmental unit
7.	Education	7. Geographic characteristics of town, village or other governmental unit
œ.	Labor status	8. Ethno-political characteristics of town, village, or other governmental unit
	8.1 Description of employment	9. Crime, violence, or legal enforcement indicators
	8.2 Description of professional activity	10. Firm-level characteristics
	8.3 Professional status	11. School characteristics
	8.4 Attachment to the labor force	12. Hospital or clinic characteristics
	8.5 Previous employment	13. Other
6	Income	
10.	Other	
_i	TTI	The data allows estimation of the effect of being assigned to treatment, also called intent to treat effect or ITT (i.e., treatment assignment is recorded in the data; the default).
ci	LATE or TOT	The data allows estimation of the effect of receiving treatment, also called local average treatment effect (LATE) or effect of treatment on the treated (TOT) (i.e., treatment compliance or take-up is recorded in the data).
က်	ATE	The study allows identification of the average effect of treatment in the study population, also called average treatment effect or ATE (i.e., treatment compliance is automatic/perfect; this may be the case for e.g. laboratory experiments).
4.	Heterogeneous treatment effects or effects by subgroup	The study was designed to allow for the identification of heterogeneous treatment effects or effects by subgroup for one or more covariates.
ت	General equilibrium effects	The randomization was designed to be able to identify general equilibrium effects (e.g., cluster randomization to measure cluster-level effects on prices, labor market outcomes, etc.).
9.	Spillovers or externalities	The study was designed to measure spillover effects or externalities caused by the intervention (e.g., cluster randomization with varying saturation and data collected on everyone in the cluster).
7.	Interaction effect of different interventions	The study's interventions were assigned to arms in a way that allows the analysis of interaction effects (e.g., factorial designs).
œ.	Effect of varying treatment intensity	The study was designed such that distinct arms were assigned different intensities of a broader intervention (e.g., a cash transfer that has \$20, \$40, and \$60 arms).
6	Other	Any other design features that permit estimating the effect of an intervention on units in the

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i.	Sample survey data	Survey data collected from a sample of an underlying population.
2.	Census/enumeration data	Data that covers a complete population.
က်	Administrative records data	Information collected, used, and stored primarily for administrative (i.e., operational) rather than research purposes.
4.	Aggregate data	Data at a level of aggregation higher than the units represented in the study, such as country or state-level average household income.
ъ.	Clinical data	Data either collected during the course of ongoing patient care or as part of a formal clinical trial program.
9.	Event/transaction data	Data that describes an event or transaction, such as data recording sales/business transactions.
7.	Observation data/ratings	Data collected as they occur (for example, observing behaviors, events, etc.), without attempting to manipulate any of the independent variables.
∞.	Process-produced data	Paradata or process metadata: Information about data cleaning and transformation processes.
6	Time budget diaries	Data collected from respondent-produced diaries that contain information on their time use.
10.	Choice experiments for preference eliciation	
	10.1 Incentivized	Data produced from choice experiments with real-world incentives.
	10.2 Hypothetical	Data produced from hypothetical choice experiments (i.e., those that do not have any real-world implications for the respondents.)
11	Economic games with participant interaction	Laboratory or "lab-in-the-field." Data collected from laboratory or lab-in-the-field games played by the respondents, such as dictator or trust games, with real-world incentives.
12.	Measurement and tests	
	12.1 Educational	Assessment of knowledge, skills, aptitude, or educational achievement by means of specialized measures or tests. Includes standardized testing.
	12.2 Physical	Assessment of physical properties of living beings, objects, materials, or natural phenomena. For example, blood pressure, heart rate, body weight and height, as well as time, distance, mass, temperature, force, power, speed, GPS data on physical movement and other physical parameters or variables, like geospatial data.
	12.3 Psychological	Assessment of personality traits or psychological/behavioral responses by means of specialized measures or tests. For example, objective tests like self-report measures with a restricted response format, or projective methods allowing free responses, including word association, sentence or story completion, vignettes, cartoon test, thematic apperception tests, role play, drawing tests, inkblot tests, choice ordering exercises, etc.
13.	Textual data	Data taken or coded from texts, including but not limited to documents, reports, or speeches.
14.	Other	4

1. 2.	One-time cross-sectional data Repeated cross-sectional data Panel Datasets	Datasets that contain baseline and endline surveys that track the same participants included
4.	not apply (admin or similar)	
م	Other	
	I. Mode of Data Collection (Source: Adapted from DDI)	Notes
i.	Interview	A pre-planned communication between two (or more) people - the interviewer(s) and the interviewee(s) - in which information is obtained by the interviewer(s) from the interviewee(s). If group interaction is part of the method, use 'Focus group'.
	1.1 Face-to-face interview	Data collection method in which a live interviewer conducts a personal interview, presenting questions and entering the responses. Use this broader term if not CAPI or PAPI, or if not known whether CAPI/PAPI or not.
	1.1.1 Face-to-face: CAPI/CAMI	Computer-assisted personal interviewing. Data collection method in which the interviewer reads questions to the respondents from the screen of a computer, laptop, or a mobile device like tablet or smartphone, and enters the answers in the same device. The administration of the interview is managed by a specifically designed program/application.
	1.1.2 Face-to-face: PAPI	Paper-and-pencil interviewing. The interviewer uses a traditional paper questionnaire to read the questions and enter the answers.
	1.2 Telephone interview	Interview administered on the telephone. Use this broader term if not CATI, or if not known whether CATI or not.
	1.2.1 Telephone: CATI	Computer-assisted telephone interviewing. The interviewer asks questions as directed by a computer, responses are keyed directly into the computer and the administration of the interview is managed by a specifically designed program.
	$1.2.2 \overline{\text{Telephone: PATI}}$	The interviewer uses a traditional paper questionnaire to read the questions and enter the answers; the survey is conducted through a telephone.
	1.3 Email	Interviews conducted via e-mail, usually consisting of several e-mail messages that allow the discussion to continue beyond the first set of questions and answers, or the first e- mail exchange.
	1.4 Web-based	An interview conducted via the Internet. Examples include interviews conducted within online forums or using web-based audio-visual technology enabling the interviewer(s) and interviewee(s) to communicate in real time.
5.	Self-administered questionnaire 2.1 Paper	Self-administered questionnaire includes knowledge tests and preference elicitation. Self-administered survey using a traditional paper questionnaire delivered and/or collected by mail (postal services), by fax, or in person by either interviewer, or respondent.
	2.2 Email	Self-administered survey in which questions are presented to the respondent in the text body of an e-mail or as an attachment to an e-mail, but not as a link to a web-based questionnaire. Responses are also sent back via e-mail, in the e-mail body or as an

(cox images) or MMS (treatments) (cox images) or MMS (treesage) including multimodia content) and send their replues in the same formats. 2.4 Web-based (cox images) or MMS (treesage) including multimodia content) and send their replues in the same formats. 2.5 CASI (cox images) or MMS (treesage) including multimodia content) and send their replues in the same formats, and on adversarial to the content of the content of the content of self-sending (CASI). Included the repopulation to the tenter repulses in a computer (clastop), laptop, Phin/PDA, tablet, etc.) by themselves. The animalisate into or the questionalist is not entired. In the repulses in the advantage in a series of self-sending designed to the precision but there is no read-time data turniser as in CAMI, the answers are stored on the device used for the interview. The questionalist messel and images in read-time data turniser as in CAMI, the answers are stored on the device used for the interview. The questionalist messel, and written texts created by the research subject. 3. Web-based Shares, across, district, and written texts created by the research subject. 4.1 Faid observation and the computer created districts, and written texts created by the research in the research or the representation in which the researcher interactions and relation that is conducted in a natural environment. Faid observation of faid observation in which the researcher interactions between the researcher interactions between the researcher interactions between the researcher interactions between the researcher and highers subjects. 4.1.1 Participant field observation in which the researcher interaction between the researcher and highers and often plays a role in the situation under observation. According to manipulate any of the independent animal content of the researcher and high resident as interactions and calegated by the researcher. All the person interactions: 4.1.1 Demonster interactions: Participant the complete search or the researcher interactions betwee	I.]	I. Mode of Data Collection (Cont.)	Notes
2.4 Web-based 2.5 CASI Self-administered writings and/or diaries 3.1 Email 3.2 Paper 3.3 Web-based Observation 4.1 Field observation 4.1.1 Participant field observation 4.1.2 Non-participant field observation 4.2.1 Computer interactions: Participant 4.2.2 Computer interactions: Non-participant 4.2.3 Computer interactions: Bot participant 4.2.3 Computer interactions: Bot participant 4.2.3 Computer interactions: Bot participant 4.3.1 In-person interactions: Participant 4.3.2 In-Person interactions: Participant 6.3.1 In-person interactions: Non-participant 6.3.2 In-Person interactions: Non-participant		2.3 SMS/MMS	Self-administered survey in which the respondents receive the questions incorporated in SMS (text messages) or MMS (messages including multimedia content) and send their replies in the same format.
Self-administered writings and/or diaries 3.1 Email 3.2 Paper 3.3 Web-based Observation 4.1 Field observation 4.1.1 Participant field observation 4.2 Laboratory observation 4.2.1 Computer interactions: Participant 4.2.2 Computer interactions: Non-participant 6.2.3 Computer interactions: Bot participant 6.3.3 Computer interactions: Bot participant 6.3.4 In-person interactions: Participant 6.3.5 In-Person interactions: Non-participant 6.3.6 In-Person interactions: Non-participant 6.3.7 In-person interactions: Non-participant 6.3.8 In-Person interactions: Non-participant		2.4 Web-based	Computer-assisted web interviewing (CAWI). Data are collected using a web questionnaire, produced with a program for creating web surveys. The program can customize the flow of the questionnaire based on the answers provided, and can allow for the questionnaire to contain pictures, audio and video clips, links to different web pages etc. (adapted from Wikipedia).
Self-administered writings and/or diaries 3.1 Email 3.2 Paper 3.3 Web-based Observation 4.1 Field observation 4.1.1 Participant field observation 4.2 Laboratory observation 4.2.2 Computer interactions: Participant 6.2.3 Computer interactions: Non-participant 7.2.3 Computer interactions: Non-participant 7.2.3 Computer interactions: Bot participant 7.2.3 Computer interactions: Bot participant 7.2.3 Computer interactions: Bot participant 7.2.3 Lonputer interactions: Bot participant 7.2.3 Lonputer interactions: Bot participant 7.3.2 In-Person interactions: Non-participant 7.3.2 In-Person interactions: Non-participant		2.5 CASI	Computer-assisted self-interview (CASI). Respondents enter the responses into a computer (desktop, laptop, Palm/PDA, tablet, etc.) by themselves. The administration of the questionnaire is managed by a specifically designed program/application but there is no real-time data transfer as in CAWI, the answers are stored on the device used for the interview. The questionnaire may be fixed form or interactive. Includes VCASI (Video computer-assisted self-interviewing), ACASI (Audio computer-assisted self-interviewing) and TACASI (Telephone audio computer-assisted self-interviewing).
3.2 Paper 3.3 Web-based Observation 4.1 Field observation 4.1.2 Non-participant field observation 4.2 Laboratory observation 4.2.1 Computer interactions: Participant A.2.2 Computer interactions: Non-participant A.2.3 Computer interactions: Bot participant A.3.3 In-person interactions: Participant A.3.1 In-person interactions: Participant A.3.2 In-Person interactions: Non-participant	33	Self-administered writings and/or diaries	Narratives, stories, diaries, and written texts created by the research subject.
3.3 Web-based Observation 4.1 Field observation 4.1.2 Non-participant field observation 4.2 Laboratory observation 4.2.1 Computer interactions: Participant 4.2.2 Computer interactions: Non-participant 4.2.3 Computer interactions: Bot participant 4.2.3 Laboratory observations: Non-participant 4.2.4 Computer interactions: Bot participant 4.2.5 Laboratory observations: A.2.6 Computer interactions: A.2.7 Laboratory observations: A.2.8 Computer interactions: A.2.9 Laboratory observations: A.2.1 In-person interactions: Non-participant A.3.2 In-Person interactions: Non-participant A.3.2 In-Person interactions: Non-participant		3.1 Email 3.2 Paper	Narratives, stories, diaries, and written texts submitted via e-mail messages. Narratives, stories, diaries, and written texts created and collected in paper form.
Observation 4.1 Field observation 4.1.1 Participant field observation 4.1.2 Non-participant field observation 4.2 Laboratory observation 4.2.1 Computer interactions: Participant 4.2.2 Computer interactions: Non-participant 4.2.3 Computer interactions: Bot participant 4.3.1 In-person interactions: Participant 4.3.2 In-Person interactions: Non-participant 6.3.1 In-person interactions: Non-participant		3.3 Web-based	
ation Servation Participant Participant Non-part	4	Observation	Research method that involves collecting data as they occur (for example, observing behaviors, events, etc.), without attempting to manipulate any of the independent variables.
ation Servation Participant Participant Non-part-		4.1 Field observation	Observation that is conducted in a natural environment. Field observation is defined as interactions, not designed by the researcher.
Participant Participant Non-part-		4.1.1 Participant field observation	of field observation in which the researcher interacts with the and often plays a role in the social situation under observa "Field observation" is defined as interactions not designed by the researcher.
Participant Participant Non-part-		4.1.2 Non-participant field observation	Observation that is conducted in a natural, non-controlled setting without any interaction between the researcher and his/her subjects.
Participant Participant Non-part-		4.2 Laboratory observation	that is conducted in a controlled, artificially created tory observation" is defined as researcher-designed economic games bet
Participant Non-part-		4.2.1 Computer interactions: Participant	Computer-based economic games in which the researcher interacts with the subjects and often plays a role in the situation under observation.
Participant Non-part-		4.2.2 Computer interactions: Non-participant	Computer-based economic games that are conducted without any interaction between the researcher and his/her subjects.
ŧI		4.2.3 Computer interactions: Bot participant	Computer-based economic games in which a bot interacts with the subjects and often plays a role in the situation under observation
		4.3.1 In-person interactions: Participant	Type of laboratory observation in which the researcher interacts with the subjects and often plays a role in the social situation under observation. Example: Observation of children's play in a laboratory playroom with the researcher taking part in the play.
		4.3.2 In-Person interactions: Non-participant	Type of laboratory observation that is conducted without any interaction between the researcher and his/her subjects.

ъ.	Recording Reg	Registering by mechanical or electronic means, in a form that allows the information to be retrieved and/or reproduced. For example, images or sounds on disc or magnetic tape.
9.	Content coding As: qua qua into caté	As a mode of secondary data collection, content coding applies coding techniques to transform qualitative data (textual, video, audio or still-image) originally produced for other purposes into quantitative data (expressed in unit-by-variable matrices) in accordance with pre-defined categorization schemes.
	Aggregation Star or c cha cha ber on t dist	Statistics that relate to broad classes, groups, or categories. The data are averaged, totaled, or otherwise derived from individual-level data, and it is no longer possible to distinguish the characteristics of individuals within those classes, groups, or categories. For example, the number and age group of the unemployed in specific geographic regions, or national level statistics on the occurrence of specific offences, originally derived from the statistics of individual police districts.
<u>«</u>	Other	Use if the mode of data collection is known, but not found in the list.
.∷∥.	J. Research ethics documentation (Source: INEW CV)	NOTES
	Ind protocol	
2	Description of consent process	
ლ	Consent forms text or dialogue	
4.	Record of consent in the data	
2	Structured ethics appendix	See Asiedu et al. (2021)
	Other	
5	Control	
곳	K. Registration/pre-specification (Source: New CV)	Notes
1.	Trial registration	Entry in any trial registry
2	Trial pre-registration	Pre-registration in any trial registry
3.	WHO-accredited clinical trial registry	Any entry (pre- or post-registration) in a WHO-accredited clinical trial registry
4.	Pre-analysis plan	Registered/time-stamped pre-analysis plan
	Pre-results acceptance	Pre-results acceptance in an academic journal
9.	Public pre-results document	Other public pre-results proposal or document
۲.	Populated pre-analysis plan	Populated pre-analysis plan separate from the research paper
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_:	Database or data repository entry	Location of data included in this study.
2.	Document	
	2.1 Administrative	This includes materials such as the survey budget; grant agreement with sponsors; list of staff and interviewers, etc.
	2.2 Analytical	This includes documents that present analytical output (academic papers, etc.). This does not include the descriptive survey report.
	2.3 Questionnaire	This includes the actual questionnaire(s) used in the field.
	2.4 Reference	Any reference documents that are not directly related to the specific dataset, but that provide background information regarding methodology, etc. For international standard surveys, this may for example include the generic guidelines provided by the survey sponsor.
	2.5 Report	Survey reports, studies and other reports that use the data as the basis for their findings.
	2.6 Technical	Methodological documents related to survey design, interviewer's and supervisor's manuals, editing specifications, data entry operator's manual, tabulation and analysis plan, etc.
	2.7 Other	Miscellaneous items.
3.	Pre-analysis plan	pre-analysis plan, if separate from the trial registration.
4.	Populated pre-analysis plan	Populated pre-analysis plan, if separate from the trial registration/pre-analysis plan.
	Research ethics documentation	Any documentation related to research ethics, such as IRB or other ethics review protocols, consent process, consent forms, structured ethics appendix, etc.
9.	Program	Programs generated during data entry and analysis (data entry, editing, tabulation and analysis). Include replication files here.
7.	Table	Tabulations such as confidence intervals that may not be included in a general report.
~·	Audio	Audio type files.
9.	Map	Any cartographic information.
10.	Photo	
11.	Video	Video type files provided as additional visual information.
12.	Website	Link to related website(s).
<u>د:</u>	Other	