

1 **The strategy method conflates confusion with conditional cooperation in public goods**
2 **games: evidence from large scale replications**

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12 **Highlights**

- 13 • We run 3 large studies on the strategy method in public goods games (N=845)
- 14 • All participants play twice, once with humans and once with computers
- 15 • Most participants conditionally cooperate with both humans and computers

16

17 **Abstract**

18 The strategy method is often used in public goods games to measure individuals' willingness
19 to cooperate depending on the level of cooperation by others (conditional cooperation).

20 However, while the strategy method is informative, it risks being suggestive and inducing
21 elevated levels of conditional cooperation that are not motivated by concerns for fairness,
22 especially in uncertain or confused participants. Here we make 845 participants complete
23 the strategy method two times, once with human and once with computerized groupmates.

24 Cooperation with computers cannot rationally be motivated by concerns for fairness.

25 Worryingly, 69% of participants conditionally cooperated with computers, whereas only 7%
26 conditionally cooperated with humans while not cooperating with computers. Overall, 83%
27 of participants cooperated with computers, contributing 89% as much as towards humans.

28 Results from games with computers present a serious problem for measuring social
29 behaviors.

30

31 **Keywords:**

32 Confusion; fairness; inequity-aversion; strong reciprocity

33

34 **JEL classification**

35 H41 – public economics, publicly provided goods

36 C91 – design of experiments, laboratory, individual behavior

37 C72 – Non cooperative games

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41 **1. Introduction**

42 The strategy method of Fischbacher et al. (2001) is routinely used in studies of cooperation

43 and social preferences (Kocher et al., 2008; Thoni and Volk, 2018). The method makes

44 individuals specify, in advance, how much they will contribute to a public good depending

45 upon how much their groupmates contribute. Widely replicated results show that many

46 individuals appear motivated by a concern for fairness, and positively condition their

47 contributions upon the level of their groupmates contributions (conditional cooperation).

48 The finding that many individuals choose not to maximize their own income but instead

49 minimize inequity (inequity aversion (Fehr and Schmidt, 1999)), forms a keystone in the idea

50 that human cooperation is biologically unique (Camerer, 2013; Fehr and Fischbacher, 2003;

51 Fehr and Schurtenberger, 2018).

52

53 However, while the strategy method cleverly controls for participants' beliefs about

54 groupmates' (Fischbacher and Gächter, 2010), it does not control for confusion, and the

55 design prompts participants to condition their contributions (Columbus and Böhm, 2021).

56 Consequently, the strategy method risks measuring confusion or compliance with

57 suggestive instructions (experimenter demand, (Zizzo, 2010)) rather than accurate social

58 preferences.

59

60 Here we expand the experiment of Fischbacher et al. (2001) to include a control treatment

61 whereby participants also have to contribute towards computerized/virtual groupmates.

62 Contributions towards computers cannot rationally be motivated by prosocial concerns such

63 as inequity-aversion (Fehr and Schmidt, 1999). Therefore, designs with computerized

64 groupmates maintain the suggestive instructions and risk of measuring confusion while

65 eliminating social concerns ('asocial control'). Consequently, if individuals conditionally
66 cooperate with computers that cannot possibly benefit, their behavior violates the
67 assumption that participants perfectly understand the game and maximize income in line
68 with their social preferences i.e., are rational.

69

70 Our study replicates two previous studies that found high levels of conditional cooperation
71 with computers (Burton-Chellew et al., 2016; Ferraro and Vossler, 2010). Our advance is
72 three-fold: we (1) drastically expand the previous sample sizes of 40 and 72 to 845; (2) allow
73 for within-participant comparisons by making all participants play twice, once with human
74 and once with computerized groupmates, and (3) vary a range of presentation factors such
75 as treatment order (either sequential or simultaneous), and the use of default inputs (either
76 0% or 100%).

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78

79 **2. Methods**

80 We replicated the instructions and comprehension questions of Fischbacher & Gächter
81 (2010) (Appendix A). The public goods game involved groups of four, with a marginal per
82 capita return of 0.4 and an endowment of 20 Monetary Units (MU) (1 MU = 0.04 or 0.05
83 CHF). Each computerized groupmate contributed randomly from a uniform distribution (0-
84 20 MU). The income maximizing contribution was to contribute 0 MU regardless of what
85 one's groupmates contributed. We ran three studies at the University of Lausanne (UNIL),
86 Switzerland, HEC-LABEX facility, which forbids deception.

87

88 **2.1 Study 1**

89 Study 1 involved 420 participants across 20 sessions of 20-24 participants each, but a
90 programming error means we exclude all 64 participants from the first three sessions (N =
91 356 valid). We presented the two strategy methods sequentially, with either humans or
92 computers first. Participants did not know that there would be a second task, and they
93 received limited feedback from the first task to prevent learning. Half the participants saw
94 contributions increasing from 0 to 20 MU, and half saw the reverse, from 20 to 0 MU. ¹

¹ Neither the order of contributions in Study 1 nor the screen position in Studies 2-3 had significant effects upon behavior, and we do not discuss them further.

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2.2 Study 2

Study 2 involved 240 participants across 20 sessions of 12 participants each. Three participants are excluded because they had to be replaced by an experimenter. The design presented the two versions of the strategy method simultaneously, with either humans or computers on the left.¹

2.3 Study 3

Study 3 involved 252 participants across 16 sessions of 12-16 participants with no exclusions and replicated study 2 except we showed some participants default contributions of either 0 MU (N=64) or 20 MU (N=64). Participants could overwrite defaults for free but there was an effort cost.

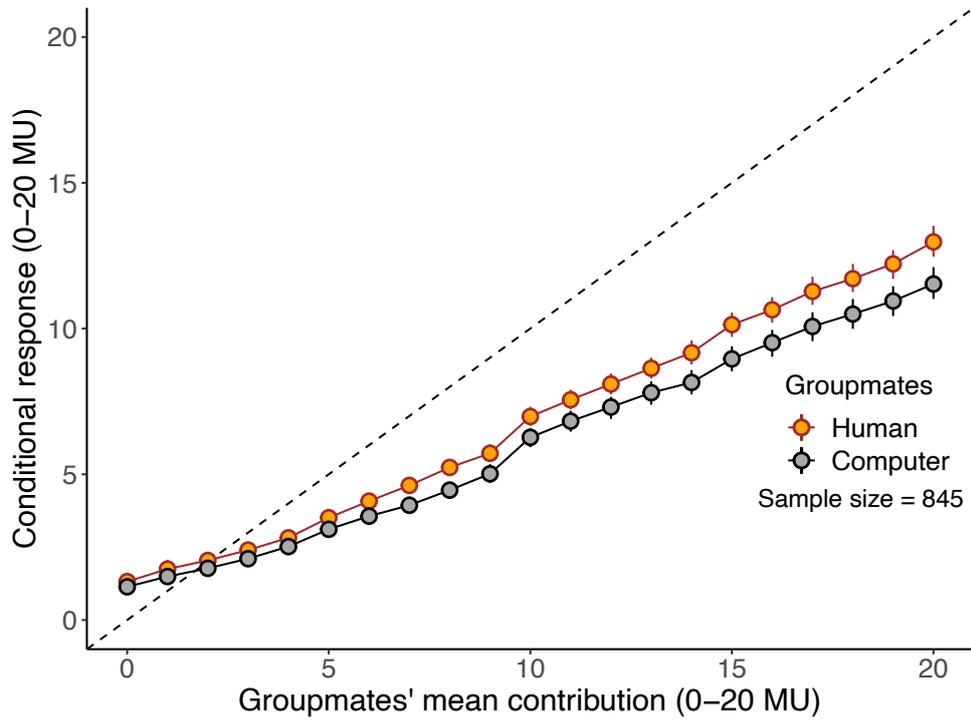
2.4 Analyses

We classified free riders and conditional cooperators according to the definitions of Thoni & Volk (2018), and we classified all other responses as 'other'. Free riders always contributed 0 MU. Conditional cooperators had a positive Pearson correlation greater than 0.5 between their responses and the contributions of their groupmates, plus a contribution when their groupmates contributed fully that was higher than their mean conditional response.

3. Results

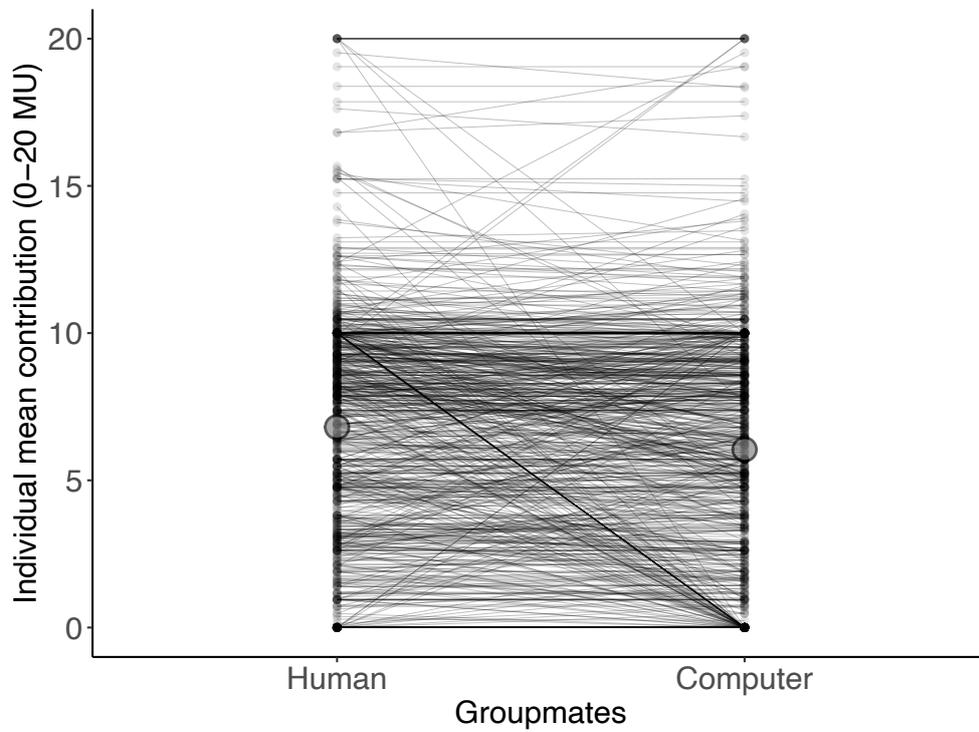
3.1 Conditional cooperation with computers

Overall, behavior was strikingly similar regardless of if participants were grouped with humans or computers (Fig. 1). The mean Pearson correlation between participant's responses and their groupmates' mean contribution was 0.68 when playing with humans and 0.60 when playing with computers (paired Wilcoxon signed rank test: $V = 106216$, $P < 0.001$, Fig. 1). Contributions towards computers were 89% as large as towards humans. Specifically, the average contribution across all scenarios in the strategy method towards humans was 34% (6.8 MU \pm 95% bootstrapped confidence intervals [6.71, 6.90]), and towards computers was 30% (6.0 MU \pm 95% bootstrapped confidence intervals [5.95, 6.14]) (paired Wilcoxon signed rank test: $V = 110110$, $P < 0.001$, Fig. 2).



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129 **Fig. 1. Conditional cooperation with computers.** Mean conditional contributions and 95%
 130 bootstrapped confidence interval for each average contribution level of either human
 131 (orange) or computerized (grey) groupmates (dashed diagonal = perfect matching).



132

133 **Fig. 2. Individual behavior.** *Every individual's mean contribution with either Humans or*
134 *Computers (N=845). Lines connect individual responses. Larger transparent circle shows the*
135 *overall mean for each case.*

136

137 The distribution of types was largely similar when playing with either humans or computers
138 (Table 1, $\chi^2 = 42.6$, $df = 2$, $P < 0.0001$). While 76% of participants expressed conditional
139 cooperation with human groupmates (N = 638/845), consistent with concerns for fairness
140 (inequity-aversion), 69% also expressed conditional cooperation with computerized
141 groupmates (N = 580/845), consistent with confusion or irrationality (Table 1). Contributing
142 zero in all cases (free riding) was 10% with humans and 17% with computers. This means
143 that 83% of participants (N = 705/845) contributed something towards computers and failed
144 to maximize their income even when there were no social concerns.

145

146 **3.2 Treatment order and framing**

147 Regardless of whether participants were first grouped with humans, or computers, or faced
148 both scenarios simultaneously, most participants still conditionally cooperated with
149 computers (62%-73%, Table 1). Even when presented with default entries of 0 MU, 58% of
150 participants still conditionally cooperated with computers (N = 37/64) and only 30% were
151 free riders (N = 19/64). Strikingly, of the 64 participants shown a default of 100%, only one
152 became a free rider with computers, and none did with humans, while 81% were
153 conditional cooperators with computers (84% with humans).

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Table 1: summary statistics.

Response	Overall		Human first ¹		Computer first ¹		Simultaneous ²		Default 0% ³		Default 100% ³		No default ³	
	Human	Comp.	Human	Comp.	Human	Comp.	Human	Comp.	Human	Comp.	Human	Comp.	Human	Comp.
Cond. coop. ⁴	76%	69%	74%	62%	69%	73%	78%	69%	72%	58%	84%	81%	84%	76%
Free rider	10%	17%	7%	18%	14%	15%	10%	17%	14%	30%	0%	2%	4%	11%
Other	15%	15%	18%	20%	17%	13%	11%	14%	14%	13%	16%	17%	12%	13%
mean corr. ⁵	0.68	0.62	0.66	0.57	0.61	0.65	0.71	0.62	0.68	0.55	0.77	0.74	0.74	0.68
mean cont. ⁶	6.8	6.0	7.1	5.6	6.2	6.0	6.7	6.0	6.5	5.3	8.7	8.2	7.6	6.7
Sample size	845	/	164	/	192	/	361	/	64	/	64	/	124	/

¹Study 1.

²Studies 2 and 3: excludes the participants we showed default contributions.

³Study 3 only.

⁴Conditional cooperators. The overall percentages of all participants that were 'perfect' conditional cooperators were 10% and 8% respectively.

⁵Pearson correlation (0-1).

⁶Contribution (0-20 MU).

156 **3.3 Homo confusus**

157 We classified individuals according to how they behaved with both humans and computers.
158 *Homo economicus* would maximize their income by contributing only zero towards both
159 human and computerized groupmates. True conditional cooperation, based on a concern
160 for fairness, would cooperate conditionally with humans but would free ride with
161 computers. In contrast, if conditional cooperation is driven by confusion or the suggestive
162 instructions, then confused or irrational individuals (*'Homo confusus'*) will cooperate
163 conditionally with both humans and computers.

164

165 Our results challenge the notion that humans are mostly conditional cooperators motivated
166 by concerns for fairness (Table 2). Instead, we found that 65% of participants classified as
167 *Homo confusus* (N = 550/845), 9% as *Homo economicus* (N = 73/845), and only 7% as true
168 conditional cooperators (N = 61/845).

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Table 2: *Homo confusus*. Behavioral types according to classification when grouped with Humans and when grouped with Computers.

Label	Humans / Computers	% (N)
True FR ¹ (<i>Homo economicus</i>)	FR / FR	9% (73)
True CC ²	CC / FR	7% (61)
Confused CC (<i>Homo confusus</i>)	CC / CC	65% (550)
Other ³	none of the above	19% (161)

¹ FR = free rider.

² CC = conditional cooperator.

³ 155 of 'Other' cooperated with computers in some way (18% of total sample).

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172

173 **4. Concluding discussion**

174 Our large-scale replication confirmed that conditional cooperation with computers is
175 common and that most participants are either confused or irrational. In contrast, our results
176 strongly suggest that true conditional cooperation, motivated by concerns for fairness, is

177 rare. Our results show the benefit of control treatments when measuring social behaviors
178 (Weber and Camerer, 2006) and suggest that public-goods experiments often measure
179 levels of confusion rather than accurately document social preferences (Burton-Chellew and
180 West, 2013; Burton-Chellew and West, 2021).

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182

183 **Acknowledgements**

184 Thanks to Laurent Lehmann, University of Lausanne for funding.

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213

214 **Appendix A: Experiment instructions**
215 **(analysis code and data as separate files).**

216

217 **Stage 1 screen 1 – general instructions about the public good game decision**

218 You are now taking part in an economic experiment, which has been financed purely for
219 academic research purposes.

220 If you read the following instructions carefully, you can, depending on your decisions, earn a
221 reasonable amount of money.

222 It is therefore very important that you read these instructions with care.

223

224 The instructions, which we have distributed to you, are solely for your private information.

225 **You are not allowed to communicate during the experiment.**

226 If you have any questions, please ask us. Violation of this rule will lead to your exclusion
227 from the experiment and all payments.

228 If you have questions, please raise your hand. A member of the experimenter team will
229 come to you and answer them in private.

230

231 During the experiment we shall not speak of CHF but rather of MU (Monetary Units).

232 During the experiment your entire earnings will be calculated in MU.

233 At the end of the experiment the total amount of MU you have earned will be converted to
234 CHF at the following rate:

235 1 MU = 0.05 CHF, so 20 MU = 1 CHF and 100 MU = 5 CHF. [Exchange rate was 0.04 in Study
236 1]

237 At the end of the experiment your entire earnings from the experiment will be immediately
238 paid to you in cash.

239

240 We describe the experimental process below.

241

242

243

244 **Stage 1 screen 2**

245 **The decision situation**

246 You will learn how the experiment will be conducted later. We first introduce you to the
247 basic decision situation. You will find control questions at the end of the instructions that
248 help you to understand the decision situation.

249

250 You will be in a group consisting of **4 people**. Each group member has to decide on the
251 allocation of 20 MU. You can put these 20 MU into your **private account** or you can invest
252 them **fully or partially** into a project. Each point you do not invest into the project, will
253 automatically remain in your private account.

254

255 **Your income from the private account:**

256

257 **You will earn one MU for each MU that you put into your private account.**

258 For example, if you put 20 MU into your private account (and therefore do not invest into
259 the project) your income will amount to exactly 20 MU out of your private account.

260 If you put 6 MU into your private account, your income from this account will be 6 MU.

261 **No one except you earns something from your private account.**

262

263

264

265 **Stage 1 screen 3**

266 **Your income from the project:**

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268 **Each member of the group will also benefit from the amount you invest in the project.**

269 On the other hand, you will also gain from the other group members' investments.

270 The income for each group member will be determined as follows:

271

272 ***Income from the project = sum of all contributions x 0.4***

273

274 If, for example, the sum of all contributions to the project is 60 MU, then you and the other
275 members of your group each earn $60 \times 0.4 = 24$ MU out of the project.

276 If four members of the group contribute a total of 10 MU to the project, you and the other
277 members of your group each earn $10 \times 0.4 = 4$ MU.

278

279 **Total income:**

280 Your total income is the sum of your income from your private account and that from the
281 project:

282

283 *Income from your private account (= 20 - contribution to the project)*

284 *+ Income from the project (= 0.4 x sum of all contributions to the project)*

285 *= Your Total Income*

286

287

288 We then presented the same four hypothetical scenarios and corresponding 10 control
289 questions as used in Fischbacher & Gächter 2010. Participants could use a calculator and
290 there was a copy of the instructions detailing how payoffs are calculated in a help box at the
291 bottom of each screen.

292

293 In Study 1, if a participant answered a question incorrectly, they were asked to try again.
294 Then, regardless of if they were correct or not, we showed all participants the correct answer
295 to that question. In Studies 2 and 3, we only let them try one time before showing them the
296 correct answers to reduce the time spent on instructions.

297

298

299 **Stage 1 screen 4**

300 Please answer the following four control questions. They will help you to gain an
301 understanding of the calculation of your income, which varies with your decision about how
302 to distribute your 20 MU.

303

304 There is a calculator available.

305 To access the calculator, click on the image in the bottom right of your screen.

306 Please enter your answers into the spaces provided and press Continue when done.

307

308 Question 1: Each group member has an endowment of 20 MU. Nobody (including yourself)
309 contributes any MU to the project.

310

311 What is *your* total income (in MU)? [answer box, correct answer is 20]

312

313 What is the total income of each of the *other* group members? [answer box, correct answer
314 is 20]

315

316

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318

319 **Stage 1 screen 5**

320 Here is the second question.

321

322 Question 2: Each group member has an endowment of 20 MU. You invest 20 MU in the
323 project. Each of the other three members of the group also contributes 20 MU to the
324 project.

325

326 What is *your* total income (in MU)? [answer box, correct answer is 32]

327

328 What is the total income of each of the *other* group members? [answer box, correct answer
329 is 32]

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333 **Stage 1 screen 6**

334 Here is the third question.

335

336 Question 3: Each group member has an endowment of 20 MU. The other three group
337 members contribute a total of 30 MU to the project.

338

339 What is *your* total income (in MU), if you - in addition to the 30 MU - invest 0 MU into the
340 project? [answer box, correct answer is 32]

341

342 What is *your* total income (in MU), if you - in addition to the 30 MU - invest 10 MU into the
343 project? [answer box, correct answer is 26]

344

345 What is *your* total income (in MU), if you - in addition to the 30 MU - invest 15 MU into the
346 project? [answer box, correct answer is 23]

347

348

349

350 **Stage 1 screen 7**

351 Here is the final question.

352

353 Question 4: Each group member has an endowment of 20 MU. Assume that you invest 8

354 MU to the project.

355

356 What is *your* total income (in MU) if the other group members together - in addition to your

357 8 MU - contribute another 7 MU in total to the project? [answer box, correct answer is 18]

358

359 What is *your* total income (in MU) if the other group members together - in addition to your

360 8 MU - contribute another 12 MU in total to the project? [answer box, correct answer is 20]

361

362 What is *your* total income (in MU) if the other group members together - in addition to your

363 8 MU - contribute another 22 MU in total to the project? [answer box, correct answer is 24]

364

365

366

367 **STRATEGY METHOD STAGE**

368 Example instructions taken from study 1 – with sequential presentation: humans then
369 computers

370

371 **Strategy method - Screen 1**

372 You will now take this decision for a special case. Rather than simply making an
373 unconditional contribution, **you will ALSO make a list of contributions** conditioned by the
374 contribution of the partners.

375

376 **Your task consists of indicating the number of MU** you want to invest in the project **based**
377 **upon each possible average contribution from the other members of the group** (rounded
378 to the nearest whole number).

379 You can vary your contribution according to the contributions of other members of the group.

380

381 A member of your group will then be selected to implement their **conditional contribution**,
382 while the other 3 members of the group will implement their **non-conditional contribution**.
383 Thus, for one of the members of the group, their earnings will be calculated according to the
384 average contribution of the other 3 members of the group, as well as the amount of their own
385 conditional contribution corresponding to this average amount.

386 On the other hand, for the other 3 members of the group, their respective earnings will be
387 calculated using their **non-conditional** contribution.

388

389

390 We will not disclose your earnings to you now, but you will receive the corresponding
391 amount the end of the experiment. After the experiment, only the experimenter will be aware
392 of your conditional and non-conditional contributions, and your decisions will remain
393 anonymous.

394 To clarify, your table of conditional contributions will have absolutely no future
395 consequences after this decision-making round.

396

397

398

399 **Strategy method - Screen 2**

400

401 You must make two decisions.

402

403 The first decision is to play *unconditionally* with the members of your group.

404 You will not know what they will do with their decision. There is a 75% chance that this will
405 be your real contribution the end of the round.

406 However, there is a 25% chance that your real contribution will be determined from your
407 second decision, as follows.

408 For the second decision, you have the possibility to condition your contribution, in the table
409 of contributions, in relation to what the members of your group would decide.

410 Enter the amount you want to contribute to the project, in case where the members of your
411 group contribute the average **contribution** which is left of the input field.

412 This decision is binding and final. When you have finished completing the tables press the
413 "Confirm" button.

414

415

416 **Strategy method - Screen 3**

417

418 Participants then saw the contribution schedule.

419

420 Enter your **non-conditional** contribution to the project (0-20 MU) for when you do not know
421 the contribution of your group members.

422

423 Enter your **conditional** contribution to the project (contribution table)

424

425 If the members of your group contribute, on average, X MU. [X = 0-20]

426 If the members of your group contribute, on average, X MU. [X = 0-20]

427 If the members of your group contribute, on average, X MU. [X = 0-20]

428 And so on...

429

430

431 **Strategy method - Screen 4**

432

433 Your earnings are being calculated.

434

435 The average contribution of your groupmembers was X MU.

436 Consequently, your **conditional** contribution was X MU (this contribution had a 25% chance
437 of being realised).

438

439 Your **non-conditional** contribution was X MU (and this had a 75% chance of being realised).

440

441 Your actual contribution was X MU.

442

443 Your earnings are being calculated.

444 There is no other information for this decision, but the money you have earned will be added
445 to your final income.

446

447

448

449 **Strategy method - Screen 5**

450

451 You will now again face the same decisions you have just taken, but in a new **special case**.

452 In this case, you will be in a group composed only of you and the COMPUTER.

453 **Everything else will take place in the same way as before**, the only difference being that

454 instead of 3 other people, you will play only with **the computer**.

455

456 **The computer will take the decisions instead of the other 3 members of the virtual**

457 **group**.

458 The decisions of the computer will be taken **in a random and independent way** (each

459 virtual player will therefore make its own decision at random).

460

461 You are **the only real human member in your group**, and only you will receive money
462 from the outcome of this round.

463 Your income will be calculated as explained during the initial instructions.

464 Your income will be determined as if the other members of your group were using real

465 money, although they are really only a computer playing randomly.

466 You will now play this special case in a single round.

467

468 You will not receive any information about your earnings obtained during this round until the
469 experiment is over, but it is a real decision with real money.

470 Only the experimenter will be aware of your decision, and this will have no consequence for

471 you later in the experiment apart from the fact you create additional income depending on the

472 outcome of this round.

473 Your income obtained in this round will be added to your final income today.

474

475

476 **Strategy method – screen 6**

477

478 You must make two decisions.

479

480 For the first decision, you will play **non-conditionally** with the computer.

481 You will not know what the computer contributes, but it will contribute at random. Like
482 before, there is a 75% chance that this will be your real contribution.

483 On the other hand, there is a 25% chance that your real contribution will be determined
484 according to your second decision, as follows.

485

486 For the second decision, you have the possibility to vary your contribution, in the table of
487 contributions, according to the decision of the computer.

488 Enter the amount you want to contribute to the project if your group members (virtual players
489 on the computer) contribute the **average** contribution to the left of the input field.

490 This decision is binding and final. When you have finished completing the table, press the
491 "Confirm" button

492

493 Enter your **non-conditional** contribution to the project (0-20 MU) for when you do not know
494 the how much the computer contributes.

495

496 Enter your **conditional** contribution to the project (contribution table)

497

498 If the computer contributes, on average, X MU. [X = 0-20]

499 If the computer contributes, on average, X MU. [X = 0-20]

500 If the computer contributes, on average, X MU. [X = 0-20]

501 And so on...

502

503

504 **Strategy method – screen 7**

505

506 Your earnings are being calculated.

507

508 The average contribution of the computer was X MU.

509 Consequently, your **conditional** contribution was X MU (this contribution had a 25% chance
510 of being realised).

511

512 Your **non-conditional** contribution was X MU (and this had a 75% chance of being realised).

513

514 Your actual contribution was X MU.

515

516 Your earnings are being calculated.

517 There is no other information for this decision, but the money you have earned will be added
518 to your final income.

519

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521