19\_hypotheses

# Familiarity with SI and Transdisciplinarity



## A1: Experience with transdisciplinary Research

The majority of the survey respondents are somewhat experienced in transdisciplinary research approaches, only 26% of the respondents rated their transdisciplinary experience lower than or equal to 3 on a scale of 1 - 10. Close to half of all survey respondents (46%) note their especially high levels of experience in transdisciplinary methods. Transdisciplinarity is not a condition for SI, however, it is usually an important cornerstone in the setting of socially innovative outcomes. Transdisciplinary experience of the researchers does not directly implicate higher chances for social innovation in the research project but (H) *we assume that it is often in relation with not (purely) academic motivation to conduct research*.

## [1] 0.3266561

## [1] 0.01175996

## Warning: Removed 5 rows containing non-finite values (stat\_boxplot).

## Warning: Removed 6 rows containing non-finite values (stat\_boxplot).



## Call:corr.test(x = feat\_df.num$transdisciplinaryExp.rate., y = ad\_df$d13,   
## use = "pairwise.complete.obs", method = "spearman")  
## Correlation matrix   
## [1] 0.33  
## Sample Size   
## [1] 346  
## These are the unadjusted probability values.  
## The probability values adjusted for multiple tests are in the p.adj object.   
## [1] 0  
##   
## To see confidence intervals of the correlations, print with the short=FALSE option

The survey questions *motivation to directly address a natural, technical, economic, or social problem* and to improve the human condition/welfare are directed to the measure non- or only partially academic motivation. The analysis of the relation between the rate of transdisciplinary experience and the motivation to address a (non-academic) problem (see Figure 2) does not yield any significant correlation between the variables (correlation coefficient rho ~0.01), to be motivated to address the natural, technical, economic, or social problem directly does not seem to be getting higher with higher rates of transdisciplinary experience. The motivation to improve the human condition is on the other hand correlating relatively stronger with transdisciplinary experience, although a statistically significant relation (p-value < 0.05 ) there is only a weak positive correlation (rho ~0.33). The motivation to improve human welfare/condition is getting only slightly higher with higher transdisciplinary experience.

## B1: Distribution of SI-Familiarity

 > TODO: Description of B1

## Dependence of SI-familiarity on scientific domains

Social innovation is a relatively less known concept among the survey respondents. The majority of the respondents indicated their low familiarity with SI, approximately %32 of the respondents selected the lowest level of SI-Familiarity (indicated with 0) and only 16% of the respondents selected a value equal or greater than 7 on a scale between 0 to 10. One of the literature-driven assumptions about SI-familiarity was that [H] *the SI-Familiarity depends on the scientific domain*. Considering the survey results are strongly skewed towards low familiarity rates, a possibly significant difference between the main scientific domains is an especially important aspect towards an understanding of SI in research.

## Scale for 'fill' is already present. Adding another scale for 'fill', which  
## will replace the existing scale.

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The analysis of the survey results yields a statistically significant dependence of the SI-familiarity to the scientific domains (Kruskal-Wallis [K-W] rank sum test p-value < 0.05). However, as Figure 4 also visualises, the domains Mathematics, Natural -, & Engineering Sciences and Biology & Medicine are statistically not significantly differ from each other while Social Sciences and Humanities (SSH) show a stat. significant difference to both of the other domains. [[1]](#footnote-26).

# Intention & Agency

## D1: Motivation



## Warning in cor.test.default(as.numeric(d1.welfare\_rec),  
## feat\_df.num$impactTargetGroup.socgr., : Cannot compute exact p-value with ties

##   
## Spearman's rank correlation rho  
##   
## data: as.numeric(d1.welfare\_rec) and feat\_df.num$impactTargetGroup.socgr.  
## S = 4705538, p-value = 2.735e-10  
## alternative hypothesis: true rho is not equal to 0  
## sample estimates:  
## rho   
## 0.3300748

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## will replace the existing scale.  
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## Warning: Removed 13 rows containing non-finite values (stat\_boxplot).

## Warning: Removed 7 rows containing non-finite values (stat\_boxplot).



## Call:corr.test(x = dg\_all\_df)  
## Correlation matrix   
## d1.welfare\_rec d1.phenome\_rec d1.problem\_rec V4 V5 V6 V7  
## d1.welfare\_rec 1.00 0.12 0.33 0.50 0.31 0.34 0.01  
## d1.phenome\_rec 0.12 1.00 0.45 0.05 0.12 0.12 0.12  
## d1.problem\_rec 0.33 0.45 1.00 0.18 0.10 0.10 0.13  
## V4 0.50 0.05 0.18 1.00 0.32 0.38 0.32  
## V5 0.31 0.12 0.10 0.32 1.00 0.51 0.10  
## V6 0.34 0.12 0.10 0.38 0.51 1.00 0.07  
## V7 0.01 0.12 0.13 0.32 0.10 0.07 1.00  
## V8 0.36 0.15 0.13 0.49 0.54 0.34 0.22  
## V9 0.24 0.00 0.17 0.51 0.15 0.10 0.28  
## V8 V9  
## d1.welfare\_rec 0.36 0.24  
## d1.phenome\_rec 0.15 0.00  
## d1.problem\_rec 0.13 0.17  
## V4 0.49 0.51  
## V5 0.54 0.15  
## V6 0.34 0.10  
## V7 0.22 0.28  
## V8 1.00 0.32  
## V9 0.32 1.00  
## Sample Size   
## d1.welfare\_rec d1.phenome\_rec d1.problem\_rec V4 V5 V6 V7 V8  
## d1.welfare\_rec 355 354 352 350 342 348 351 348  
## d1.phenome\_rec 354 360 353 354 347 353 356 353  
## d1.problem\_rec 352 353 354 348 343 348 350 347  
## V4 350 354 348 355 344 350 354 350  
## V5 342 347 343 344 347 347 347 346  
## V6 348 353 348 350 347 353 353 350  
## V7 351 356 350 354 347 353 357 353  
## V8 348 353 347 350 346 350 353 354  
## V9 346 352 346 349 345 350 351 348  
## V9  
## d1.welfare\_rec 346  
## d1.phenome\_rec 352  
## d1.problem\_rec 346  
## V4 349  
## V5 345  
## V6 350  
## V7 351  
## V8 348  
## V9 352  
## Probability values (Entries above the diagonal are adjusted for multiple tests.)   
## d1.welfare\_rec d1.phenome\_rec d1.problem\_rec V4 V5 V6 V7  
## d1.welfare\_rec 0.00 0.29 0.00 0.00 0.00 0.00 1.00  
## d1.phenome\_rec 0.03 0.00 0.00 0.98 0.29 0.29 0.23  
## d1.problem\_rec 0.00 0.00 0.00 0.01 0.43 0.43 0.19  
## V4 0.00 0.33 0.00 0.00 0.00 0.00 0.00  
## V5 0.00 0.03 0.06 0.00 0.00 0.00 0.43  
## V6 0.00 0.03 0.06 0.00 0.00 0.00 0.69  
## V7 0.92 0.02 0.01 0.00 0.06 0.17 0.00  
## V8 0.00 0.01 0.02 0.00 0.00 0.00 0.00  
## V9 0.00 0.94 0.00 0.00 0.00 0.05 0.00  
## V8 V9  
## d1.welfare\_rec 0.00 0.00  
## d1.phenome\_rec 0.08 1.00  
## d1.problem\_rec 0.20 0.02  
## V4 0.00 0.00  
## V5 0.00 0.08  
## V6 0.00 0.43  
## V7 0.00 0.00  
## V8 0.00 0.00  
## V9 0.00 0.00  
##   
## To see confidence intervals of the correlations, print with the short=FALSE option

## D2: Intention & Agency – Impulses from the Non-academic World

###### *Addressing a specific problem* …

## [1] "No" "To a minor extent" "To a major extent"



Our hypotheses derived from the literature research includes 2 main assumptions:

* (h\_1) The rate of non-academic impulse for research differs between scientific fields.

## Scale for 'fill' is already present. Adding another scale for 'fill', which  
## will replace the existing scale.

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## [73] "" "" "" "contr" "" "" "" "" ""   
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## [109] "" "" "" "cons" "" "cons" "" "cons" ""   
## [118] "" "cocr" "cons" "" "" "" "" "" ""   
## [127] "" "cocr" "" "" "" "" "" "" ""   
## [136] "" "" "cons" "" "" "" "cons" "" ""   
## [145] "cons" "" "" "" "" "" "cons" "" ""   
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## [163] "" "" "" "cons" "" "" "" "" ""   
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## [181] "" "cons" "" "" "" "" "cons" "" ""   
## [190] "" "" "cons" "" "cons" "" "" "" ""   
## [199] "" "contr" "" "" "" "" "" "contr" ""   
## [208] "cons" "" "" "" "" "" "contr" "colla" ""   
## [217] "" "" "" "" "" "" "" "contr" ""   
## [226] "" "" "cons" "colla" "contr" "cons" "cons" "" ""   
## [235] "" "" "cons" "" "" "contr" "" "contr" ""   
## [244] "" "" "" "cons" "" "cocr" "cons" "" ""   
## [253] "contr" "" "" "cons" "contr" "" "cons" "" "contr"  
## [262] "cons" "" "" "" "" "" "" "contr" ""   
## [271] "" "cons" "" "" "" "" "" "cocr" ""   
## [280] "" "" "cons" "" "" "" "" "" "contr"  
## [289] "" "" "" "" "" "" "" "" ""   
## [298] "" "" "" "" "contr" "" "" "" ""   
## [307] "" "" "" "" "cons" "" "" "" ""   
## [316] "" "" "" "colla" "" "" "" "" "cons"   
## [325] "" "" "cons" "" "" "" "cons" "" ""   
## [334] "" "" "contr" "cocr" "contr" "" "" "contr" ""   
## [343] "" "cons" "" "cons" "" "" "" "" ""   
## [352] "" "" "" "" "" "colla" "cocr" "contr" ""   
## [361] ""

The deliberative approach to benefit for non-academic society shows statistically significant difference between different domains (Kruskal-Wallis Test p-value < 0.05), however while there is a stat. significant difference between SSH and Physical Sciences as well as between Bology & Medicine and Physical Sciences, there is no stat. difference between SSH and Biology & Medicine.

* (h\_2) Impulses from non-academic world correlates with the nature of involvement of societal actors in the project.

The nature of involvement of specific groups indicate how far the involvement of those were in the project (for a detailed analysis of the variable see *Nature of Involvement* under *Actors & Networks*), including the options *No*, *To a minor extent* and *To a major extent*.

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## will replace the existing scale.



## Warning in cor.test.default(as.numeric(d2domain.df$benefitForNonAcademy), :  
## Cannot compute exact p-value with ties

##   
## Spearman's rank correlation rho  
##   
## data: as.numeric(d2domain.df$benefitForNonAcademy) and d2domain.df$civsoc  
## S = 20911, p-value = 0.7077  
## alternative hypothesis: true rho is not equal to 0  
## sample estimates:  
## rho   
## 0.05380716

Directly aiming to benefit society expected to correlate relatively higher with the level of participation of the societal actors. However according to the survey results the correlation between the nature of involvement of the citizens as well as civil society organisations and the deliberation to benefit society is very weak (spearman’s ~0.15 and ~0.05 respectively). The correlation between the welfare organisations & NGOs with the same deliberative motivation is the only statistically significant one, however also this relation is a weak positive correlation (spearman’s ~0.3).

## D3: Direct benefit for the general population or a specific non-academic group



# Actors & Networks

## E1/E2: Transdisciplinary Aspects: Inter-/Transdisciplinary Involvement



Interdisciplinary involvement is more common among the SNF funded projects, 41% of the respondents note that the involvement of academicians from other disciplines were quite central to their specific project. Transdisciplinary involvement has been measured under different categories that indicate different type of societal actors and groups in the survey. Although not as central as the interdisciplinary involvement different types of transdisciplinary engagement constitute a noteworthy part of the research projects.

* similar across different groups in terms of extent and depth of involvement (*marginal* / *central*)



* Transdisciplinary involvement mostly *consultative* or *contributory* in nature.
* *Collaborative* processes more likely in projects where *welfare-/education providing institutions* or *company/ business representatives* are relevant

## Warning in cor.test.default(he\_df$V1, he\_df$V2, method = "spearman", use =  
## "complete.obs"): Cannot compute exact p-value with ties

##   
## Spearman's rank correlation rho  
##   
## data: he\_df$V1 and he\_df$V2  
## S = 4652968, p-value = 3.338e-12  
## alternative hypothesis: true rho is not equal to 0  
## sample estimates:  
## rho   
## 0.3598867

* There is a although relatively weak (~0.35) statistically significant positive correlation between SI-Familiarity and involvement of citizens in the research project.

## Scale for 'fill' is already present. Adding another scale for 'fill', which  
## will replace the existing scale.

## Warning: Removed 1 rows containing non-finite values (stat\_boxplot).



The type of involvement of the societal actors is also important to analyse the SI-relevant characteristics of the projects. Transdisciplinary approaches are often applied to capitalize on the ability of multiplicity of non-academic actors to address a specific issue. Therefore; we expect with the higher levels of involvement of societal actors a transdisciplinary project to,  
\* H\_1: explore issues previously not (widely) known in society, and secondly,

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## will replace the existing scale.



## Warning in cor.test.default(as.numeric(e2domain.df$welfare),  
## e2domain.df$unknown, : Cannot compute exact p-value with ties

##   
## Spearman's rank correlation rho  
##   
## data: as.numeric(e2domain.df$welfare) and e2domain.df$unknown  
## S = 28807, p-value = 0.06437  
## alternative hypothesis: true rho is not equal to 0  
## sample estimates:  
## rho   
## 0.238323

* H\_2: also aim to design/offer an up-/out-/deep-scalable solution.

The Survey question about scalability initially included 3 different categories, namely up-, out- and deep scalability. However after applying survey wide factor analysis it is decided to compile the scalability sub-variables into one single variable because of how similar information (similarity in explained variances) each of the variables deliver.

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## will replace the existing scale.  
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## will replace the existing scale.  
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## will replace the existing scale.  
## Scale for 'fill' is already present. Adding another scale for 'fill', which  
## will replace the existing scale.



## Warning in cor.test.default(as.numeric(e2domain.df$citiz),  
## e2domain.df$scalability, : Cannot compute exact p-value with ties

##   
## Spearman's rank correlation rho  
##   
## data: as.numeric(e2domain.df$citiz) and e2domain.df$scalability  
## S = 9332.8, p-value = 0.2416  
## alternative hypothesis: true rho is not equal to 0  
## sample estimates:  
## rho   
## 0.187034

# Transdisciplinary Aspects: Target Group Goals

##### *Your project has..*

##   
## Attaching package: 'data.table'

## The following object is masked from 'package:purrr':  
##   
## transpose

## The following objects are masked from 'package:dplyr':  
##   
## between, first, last



* *Empowering people* most frequently selected (170) category among goals for target group
* *Enabling diversity and exchange of different perspectives* second most freqeuntly selected (151)
* *Worked towards improving people lives* least selected category (167)

Our literature driven assumption on the target group goals is that (H) higher levels of SI-Familiarity correlates with the focus on marginalised social groups as well as social groups in need.



## Warning in cor.test.default(as.numeric(e3domain.df$socmargi),  
## e2domain.df$scalability, : Cannot compute exact p-value with ties

##   
## Spearman's rank correlation rho  
##   
## data: as.numeric(e3domain.df$socmargi) and e2domain.df$scalability  
## S = 135282, p-value = 0.1061  
## alternative hypothesis: true rho is not equal to 0  
## sample estimates:  
## rho   
## 0.1633748

# [TBE]

## F1: Regulatory Framework: Open Science Concepts

###### Norms, requirements, practices applicable to research projects

 \* *Open access to publications* most frequently selected category (326 times), \* followed by *open access to data* (234 times)

## F2: Regulatory Framework: Gender Dimension & Support for Policy-Making

###### Explicit consideration of gender in research

 \* Vast majority of participants (275) stated *gender* was no explicit consideration in their project

## F3: Regulatory Framework: Gender Dimension & Support for Policy-Making

###### Aim: support of evidence-based policy-making

 \* ~ a third of projects aimed at supporting evidence-based policy-making

* H: The underlying assumption is that projects with a social innovation inclination may want to have an impact on policymaking as social innovation is associated with willingness to create change. Since there are other ways to create change than through policy-making, answering no to this question does not mean that the project is not socially innovative. However, a yes answer gives an indication of whether the project is leaning towards social innovation.

We assume that there is a relationship between the aim to evidence-based policy making and the benefitial outcomes of the research

# Outcome Orientation

## G1: Direct Contribution

.right[.small[N = 360]]



* A tiny minority directly contributed to *new or better services, products, or processes* for civil society organisations
* However, 18 % of respondents stated to have strongly contributed to benefit the general population

H: We assume social innovation to be outcome-oriented. This means that social innovation projects usually end with a tangible or non-tangible output. This could, for example, be a new product, a service or a process.

**We assume that the inclusion of each societal group plays a psoitive role in the outcomes of that specific group**

## impactTargetGroup.pub. impactTargetGroup.busi. impactTargetGroup.socgr.  
## 1 0 0 0  
## 2 0 0 0  
## 3 1 5 0  
## 4 0 0 0  
## 5 5 0 0  
## 6 2 0 3  
## 7 2 2 1  
## 8 0 0 0  
## 9 4 5 2  
## 10 6 7 0  
## 11 NA NA NA  
## 12 2 2 5  
## 13 5 3 3  
## 14 7 7 0  
## 15 2 0 1  
## 16 5 1 1  
## 17 2 2 2  
## 18 4 8 2  
## 19 4 2 0  
## 20 3 0 0  
## 21 5 10 0  
## 22 0 0 0  
## 23 2 5 0  
## 24 1 0 0  
## 25 0 0 0  
## 26 0 0 0  
## 27 4 2 0  
## 28 2 1 0  
## 29 10 0 10  
## 30 0 0 0  
## 31 3 0 3  
## 32 5 0 0  
## 33 0 0 0  
## 34 2 1 5  
## 35 0 0 0  
## 36 2 1 10  
## 37 3 2 0  
## 38 5 0 0  
## 39 6 0 1  
## 40 6 1 1  
## 41 3 0 0  
## 42 1 0 0  
## 43 0 0 0  
## 44 0 0 0  
## 45 0 0 0  
## 46 8 0 5  
## 47 0 0 0  
## 48 2 0 10  
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## 50 0 0 0  
## 51 1 5 0  
## 52 0 0 0  
## 53 4 0 4  
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## 55 5 0 5  
## 56 2 1 1  
## 57 3 3 0  
## 58 3 0 0  
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## 65 1 0 1  
## 66 5 5 0  
## 67 0 0 0  
## 68 7 2 5  
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## 70 4 3 0  
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## 88 0 0 0  
## 89 0 0 0  
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## 94 4 0 3  
## 95 5 2 0  
## 96 0 0 0  
## 97 1 0 8  
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## 100 7 0 7  
## 101 2 0 2  
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## 103 1 1 0  
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## 105 0 0 10  
## 106 0 0 0  
## 107 5 0 6  
## 108 0 0 0  
## 109 0 0 0  
## 110 3 NA NA  
## 111 2 3 0  
## 112 7 6 7  
## 113 2 1 2  
## 114 6 7 8  
## 115 8 10 0  
## 116 1 0 0  
## 117 0 0 0  
## 118 1 0 1  
## 119 3 NA NA  
## 120 10 8 7  
## 121 6 5 0  
## 122 6 3 2  
## 123 0 0 0  
## 124 0 0 0  
## 125 0 0 0  
## 126 NA 0 0  
## 127 1 0 0  
## 128 4 2 9  
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## 131 6 8 0  
## 132 0 0 0  
## 133 0 0 0  
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## 137 3 0 2  
## 138 0 0 1  
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## 140 5 2 1  
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## 147 8 2 0  
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## 150 0 0 0  
## 151 1 5 0  
## 152 0 2 0  
## 153 0 1 0  
## 154 3 3 3  
## 155 7 0 0  
## 156 2 2 0  
## 157 0 0 0  
## 158 0 4 0  
## 159 0 0 0  
## 160 7 8 0  
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## 162 5 0 0  
## 163 6 9 2  
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## 208 6 1 1  
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## 213 7 3 3  
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## 215 8 8 6  
## 216 10 5 0  
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## 218 0 0 0  
## 219 1 1 1  
## 220 0 0 0  
## 221 0 0 0  
## 222 0 0 0  
## 223 NA 0 5  
## 224 3 0 1  
## 225 1 3 0  
## 226 5 5 0  
## 227 2 2 2  
## 228 0 2 0  
## 229 NA NA NA  
## 230 7 7 0  
## 231 7 7 0  
## 232 3 0 5  
## 233 0 7 0  
## 234 0 0 0  
## 235 NA 3 0  
## 236 0 0 0  
## 237 8 8 NA  
## 238 1 1 1  
## 239 0 0 0  
## 240 8 1 5  
## 241 1 0 1  
## 242 6 0 6  
## 243 0 0 2  
## 244 7 5 0  
## 245 8 2 2  
## 246 1 3 0  
## 247 0 0 1  
## 248 2 NA 0  
## 249 10 5 0  
## 250 0 0 0  
## 251 10 10 0  
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## 253 8 2 9  
## 254 5 0 5  
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## 256 6 0 6  
## 257 6 2 7  
## 258 3 3 0  
## 259 5 7 0  
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## 261 6 0 8  
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## 263 8 1 1  
## 264 7 3 1  
## 265 NA NA NA  
## 266 0 1 0  
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## 290 0 10 0  
## 291 0 0 0  
## 292 7 4 7  
## 293 6 7 0  
## 294 1 1 0  
## 295 0 0 0  
## 296 8 0 0  
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## impactTargetGroup.pub. impactTargetGroup.busi.  
## groupsInvolved.res. 0.3145902 0.19246968  
## groupsInvolved.busi. 0.3015681 0.46075440  
## groupsInvolved.civsoc. 0.1682761 0.06281773  
## groupsInvolved.policy. 0.2396566 0.10821326  
## groupsInvolved.citiz. 0.2817575 0.11150925  
## groupsInvolved.media. 0.2891542 0.12752404  
## groupsInvolved.welfare. 0.2797532 0.05238681  
## impactTargetGroup.socgr. impactTargetGroup.welfare.  
## groupsInvolved.res. 0.1797035 0.2528773  
## groupsInvolved.busi. 0.1448552 0.1570119  
## groupsInvolved.civsoc. 0.4107034 0.2627477  
## groupsInvolved.policy. 0.3177518 0.2883071  
## groupsInvolved.citiz. 0.4173404 0.4358436  
## groupsInvolved.media. 0.2233659 0.2515279  
## groupsInvolved.welfare. 0.3601413 0.4940480  
## impactTargetGroup.civsoc. impactTargetGroup.policy.  
## groupsInvolved.res. 0.1563784 0.1649552  
## groupsInvolved.busi. 0.1643840 0.1795239  
## groupsInvolved.civsoc. 0.5767046 0.3722993  
## groupsInvolved.policy. 0.4143047 0.6315179  
## groupsInvolved.citiz. 0.3405687 0.3083973  
## groupsInvolved.media. 0.2297618 0.2738240  
## groupsInvolved.welfare. 0.1947239 0.2317896  
## impactTargetGroup.acad.  
## groupsInvolved.res. 0.17493725  
## groupsInvolved.busi. 0.07000418  
## groupsInvolved.civsoc. -0.03830061  
## groupsInvolved.policy. 0.03148114  
## groupsInvolved.citiz. 0.06519930  
## groupsInvolved.media. 0.16026242  
## groupsInvolved.welfare. 0.06372895

## Call:corr.p(r = corm$r, n = corm$n)  
## Correlation matrix   
## impactTargetGroup.pub. impactTargetGroup.busi.  
## groupsInvolved.res. 0.31 0.19  
## groupsInvolved.busi. 0.30 0.46  
## groupsInvolved.civsoc. 0.17 0.06  
## groupsInvolved.policy. 0.24 0.11  
## groupsInvolved.citiz. 0.28 0.11  
## groupsInvolved.media. 0.29 0.13  
## groupsInvolved.welfare. 0.28 0.05  
## impactTargetGroup.socgr. impactTargetGroup.welfare.  
## groupsInvolved.res. 0.18 0.25  
## groupsInvolved.busi. 0.14 0.16  
## groupsInvolved.civsoc. 0.41 0.26  
## groupsInvolved.policy. 0.32 0.29  
## groupsInvolved.citiz. 0.42 0.44  
## groupsInvolved.media. 0.22 0.25  
## groupsInvolved.welfare. 0.36 0.49  
## impactTargetGroup.civsoc. impactTargetGroup.policy.  
## groupsInvolved.res. 0.16 0.16  
## groupsInvolved.busi. 0.16 0.18  
## groupsInvolved.civsoc. 0.58 0.37  
## groupsInvolved.policy. 0.41 0.63  
## groupsInvolved.citiz. 0.34 0.31  
## groupsInvolved.media. 0.23 0.27  
## groupsInvolved.welfare. 0.19 0.23  
## impactTargetGroup.acad.  
## groupsInvolved.res. 0.17  
## groupsInvolved.busi. 0.07  
## groupsInvolved.civsoc. -0.04  
## groupsInvolved.policy. 0.03  
## groupsInvolved.citiz. 0.07  
## groupsInvolved.media. 0.16  
## groupsInvolved.welfare. 0.06  
## Sample Size   
## impactTargetGroup.pub. impactTargetGroup.busi.  
## groupsInvolved.res. 355 352  
## groupsInvolved.busi. 346 345  
## groupsInvolved.civsoc. 348 347  
## groupsInvolved.policy. 350 349  
## groupsInvolved.citiz. 347 346  
## groupsInvolved.media. 346 346  
## groupsInvolved.welfare. 347 346  
## impactTargetGroup.socgr. impactTargetGroup.welfare.  
## groupsInvolved.res. 353 354  
## groupsInvolved.busi. 345 347  
## groupsInvolved.civsoc. 348 348  
## groupsInvolved.policy. 350 350  
## groupsInvolved.citiz. 347 348  
## groupsInvolved.media. 346 347  
## groupsInvolved.welfare. 346 348  
## impactTargetGroup.civsoc. impactTargetGroup.policy.  
## groupsInvolved.res. 347 354  
## groupsInvolved.busi. 339 346  
## groupsInvolved.civsoc. 342 348  
## groupsInvolved.policy. 344 349  
## groupsInvolved.citiz. 341 347  
## groupsInvolved.media. 340 345  
## groupsInvolved.welfare. 340 346  
## impactTargetGroup.acad.  
## groupsInvolved.res. 357  
## groupsInvolved.busi. 348  
## groupsInvolved.civsoc. 350  
## groupsInvolved.policy. 352  
## groupsInvolved.citiz. 349  
## groupsInvolved.media. 348  
## groupsInvolved.welfare. 349  
## These are the unadjusted probability values.   
## To see the values adjusted for multiple tests see the p.adj object.   
## impactTargetGroup.pub. impactTargetGroup.busi.  
## groupsInvolved.res. 0.00 0.01  
## groupsInvolved.busi. 0.00 0.00  
## groupsInvolved.civsoc. 0.03 1.00  
## groupsInvolved.policy. 0.00 0.35  
## groupsInvolved.citiz. 0.00 0.34  
## groupsInvolved.media. 0.00 0.18  
## groupsInvolved.welfare. 0.00 1.00  
## impactTargetGroup.socgr. impactTargetGroup.welfare.  
## groupsInvolved.res. 0.01 0.00  
## groupsInvolved.busi. 0.08 0.04  
## groupsInvolved.civsoc. 0.00 0.00  
## groupsInvolved.policy. 0.00 0.00  
## groupsInvolved.citiz. 0.00 0.00  
## groupsInvolved.media. 0.00 0.00  
## groupsInvolved.welfare. 0.00 0.00  
## impactTargetGroup.civsoc. impactTargetGroup.policy.  
## groupsInvolved.res. 0.04 0.03  
## groupsInvolved.busi. 0.04 0.02  
## groupsInvolved.civsoc. 0.00 0.00  
## groupsInvolved.policy. 0.00 0.00  
## groupsInvolved.citiz. 0.00 0.00  
## groupsInvolved.media. 0.00 0.00  
## groupsInvolved.welfare. 0.01 0.00  
## impactTargetGroup.acad.  
## groupsInvolved.res. 0.02  
## groupsInvolved.busi. 1.00  
## groupsInvolved.civsoc. 1.00  
## groupsInvolved.policy. 1.00  
## groupsInvolved.citiz. 1.00  
## groupsInvolved.media. 0.04  
## groupsInvolved.welfare. 1.00  
##   
## To see confidence intervals of the correlations, print with the short=FALSE option

## G2: Intended Effects

###### Intended short- or long-term change benefiting specific target groups or the general population:



* Improving the *understanding* in the general population as well as raising the *awareness* by far the most frequently selected category (79 and 50 times)
* *Changing behaviour* most frequently stated for policy-makers/public administrators

## NULL

## G4 & G5: Uptake by Decision-Makers

###### *To what extent were project results taken up by policy-making and/or public administration and/or governmental agencies?*



* ~ 20 % rated the *uptake of the project results by decision-makers* moderate to high

###### In what way were those results taken up by policy-making and/or public administration and/or governmental agencies?



* 9 projects claimed to have influenced *specific laws or regulations*
* 53 projects stated to have changed a *policy or agenda*

\*\*H\* We

## G6: Impact Statements



* Academic dimension most frequently chosen,
* followed by *issues not widely known in society* and *generate a deeper understanding of a specific social issues*.

# Dissemination and Exploitation

# H1: Dissemination Channels

 \* Unsurprisingly, the vast majority published in peer-reviewed journals \* Policy briefs were rated lowest but 110 projects stated to have organised events for non-academic practitioners

# H2: Dissemination and Exploitation: Scalability



* 69 % of the respondents were confident of the scaling-up potential of the project results

# Notes

* Considering most of the variables are not normally distributed non parametric tests are returning statistically more robust outcomes.

1. Results of the pairwise comparisons using Wilcoxon rank sum test with continuity correction with Bonferonni p-value adjustment yields a p-value greater than 0.05 for Mathematics, Natural-, & Engineering Sciences. SSH, however, associated with p-values significantly smaller than 0.05 with both of the other domains [↑](#footnote-ref-26)