

# CRC Engage

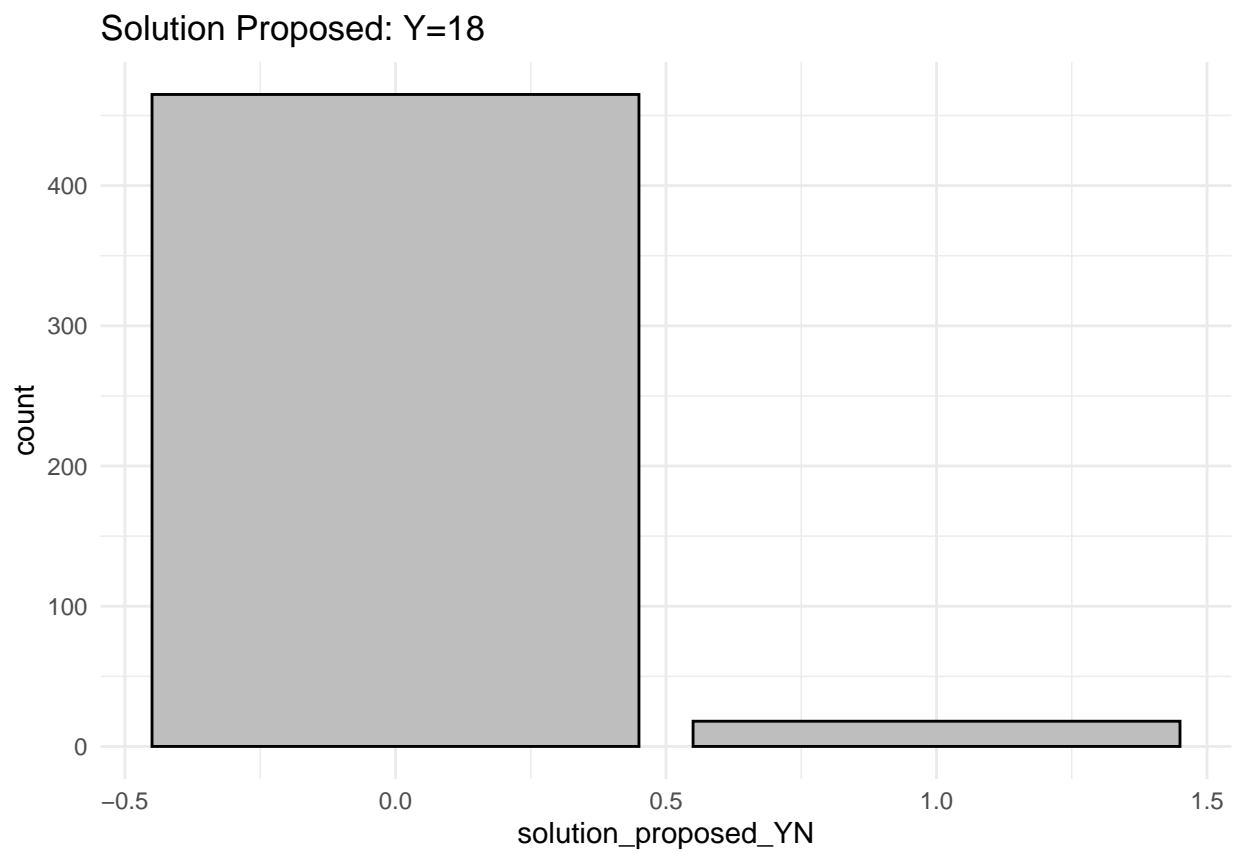
Erich Seamon

2024-09-14

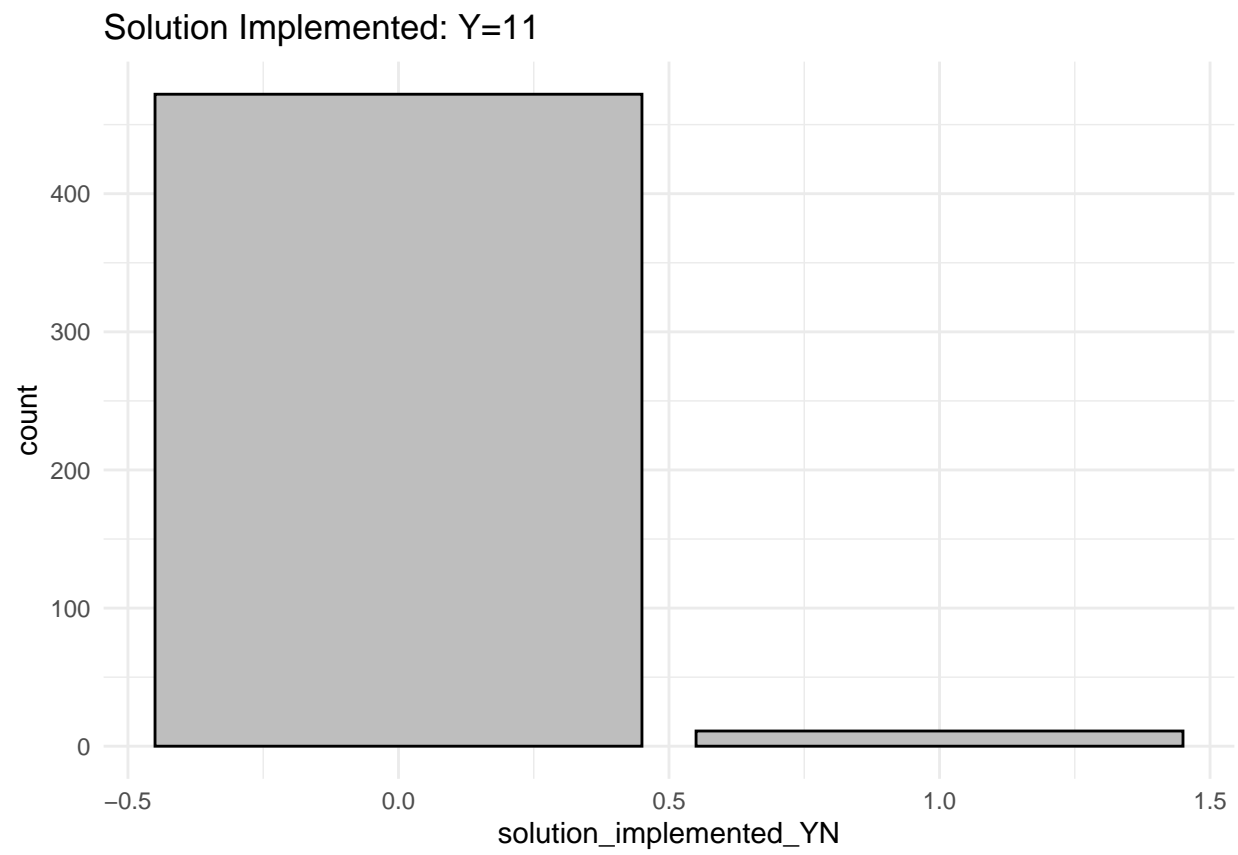
## CRC Engage Summary

CRC Engage Summary Statement

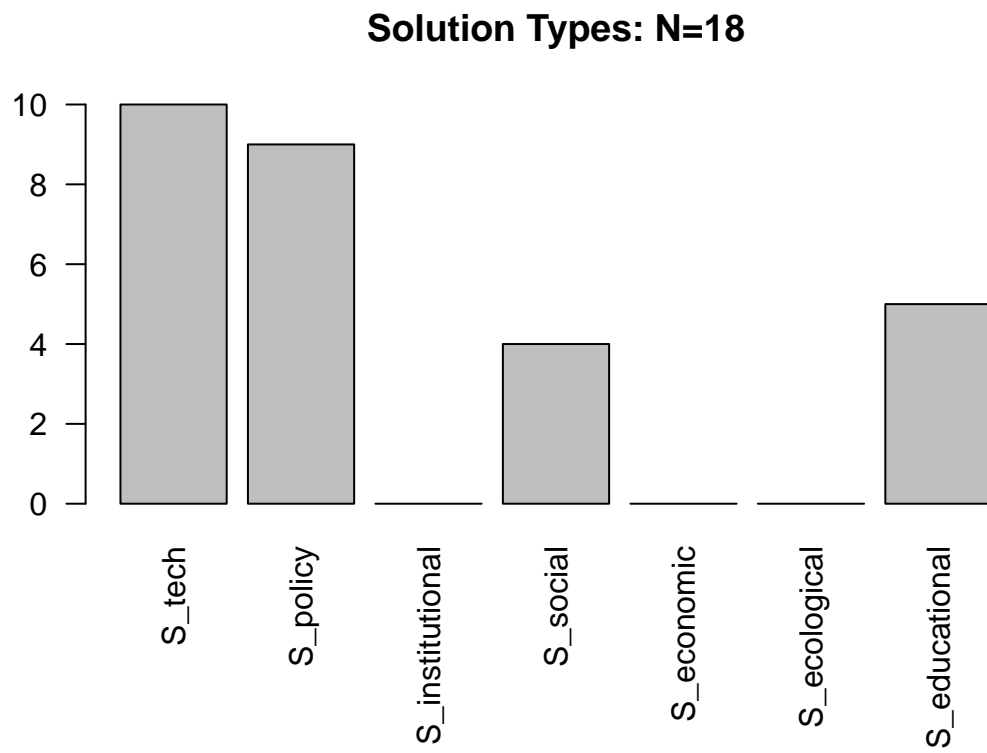
## Proposed Solution Papers



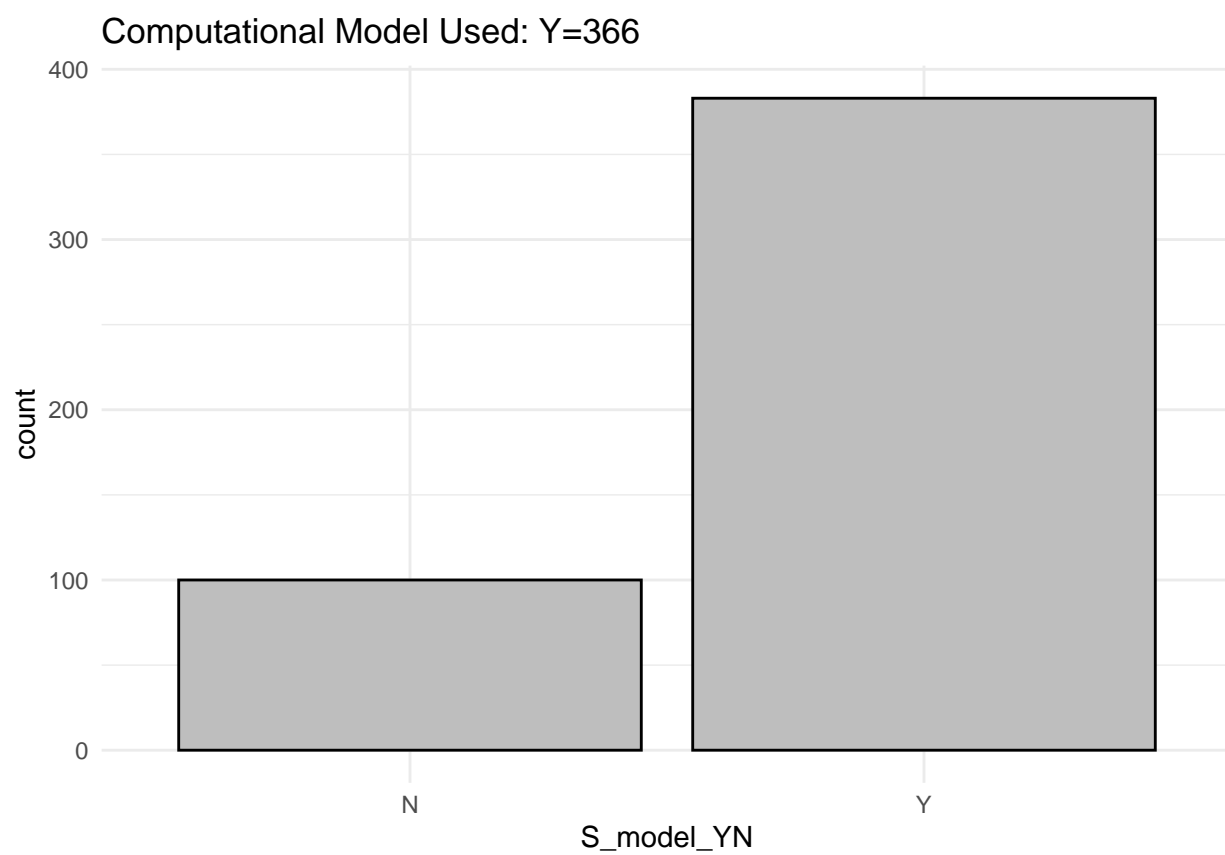
## Implemented Solution Papers



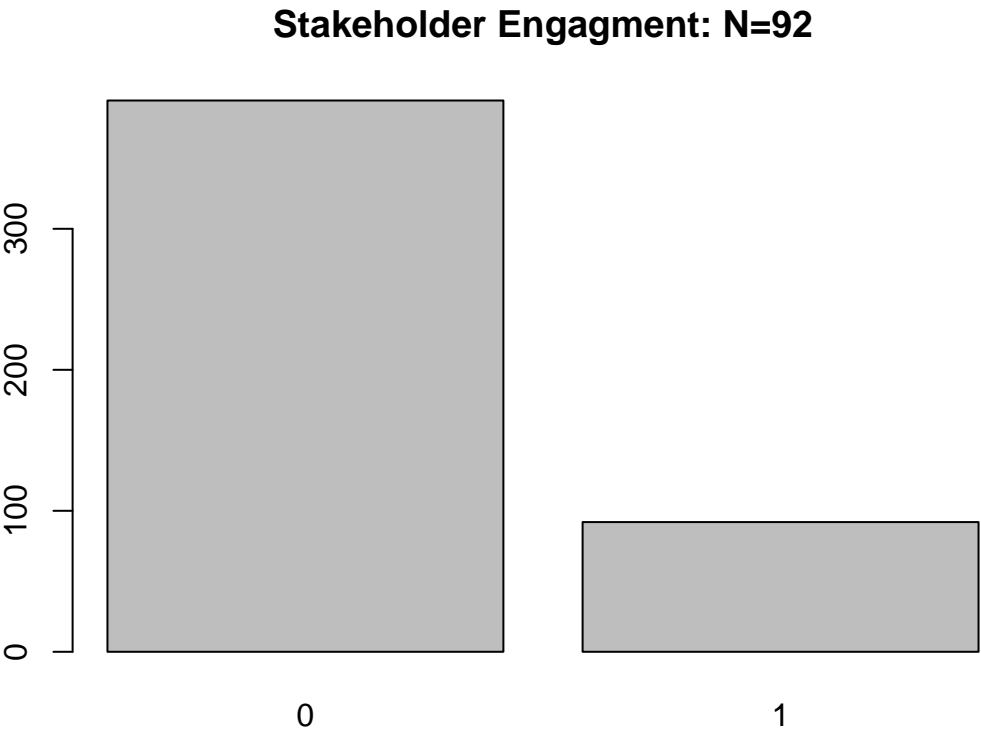
## Solution Types



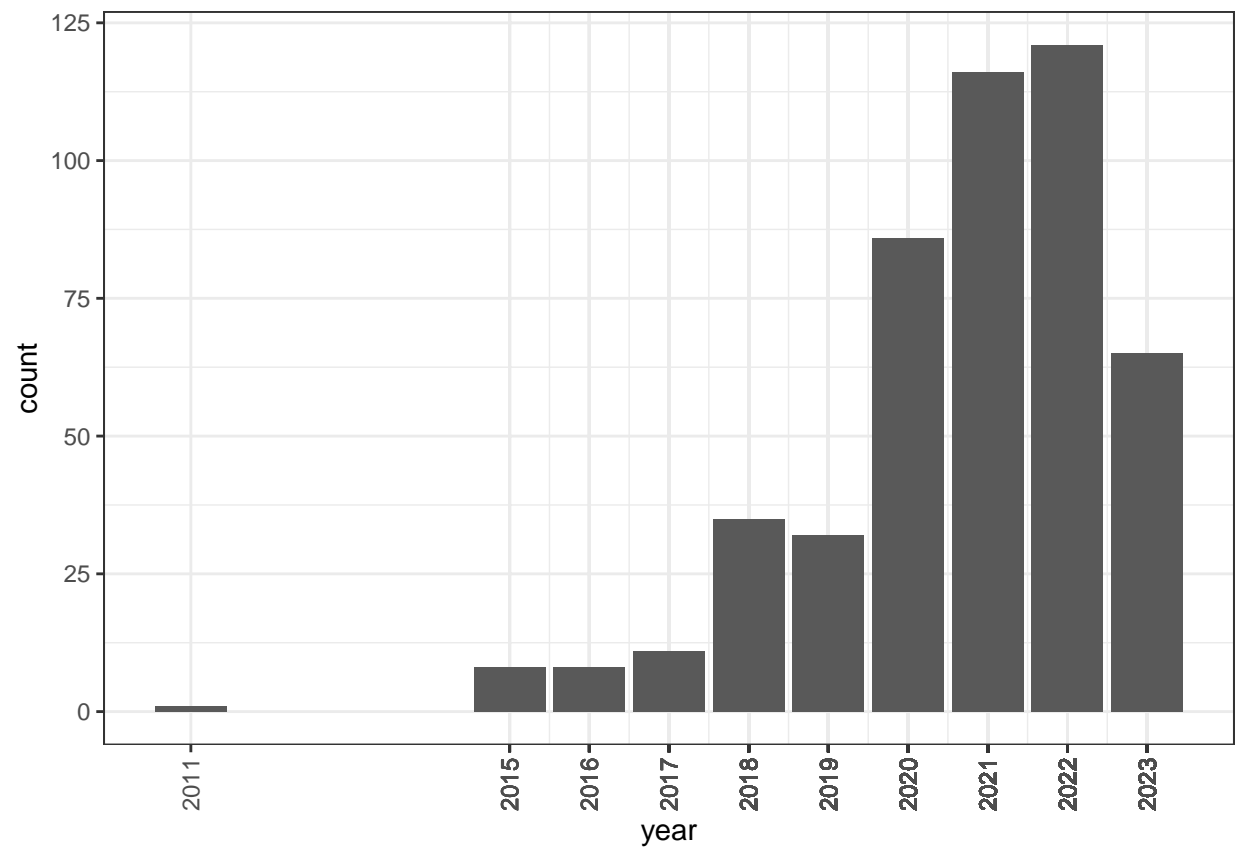
## Computational Model Used



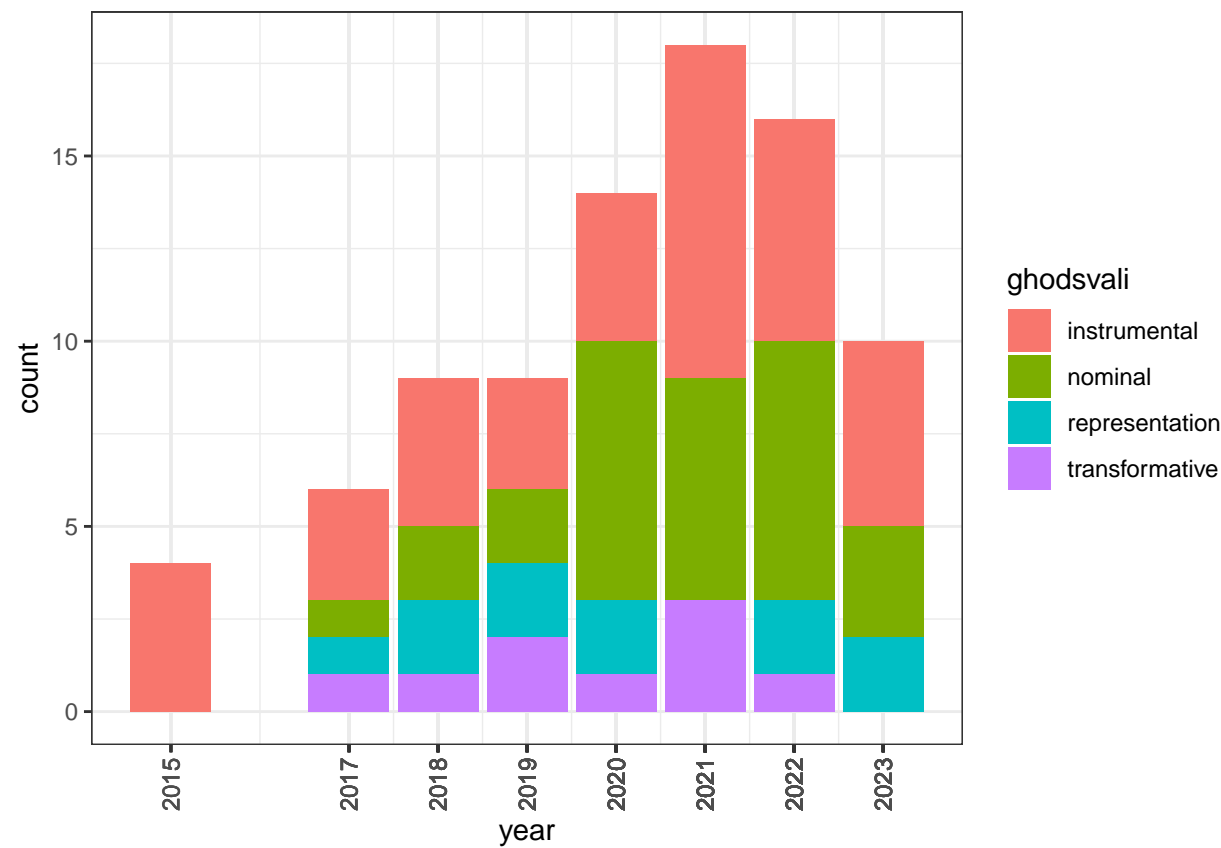
Stakeholder Engagement



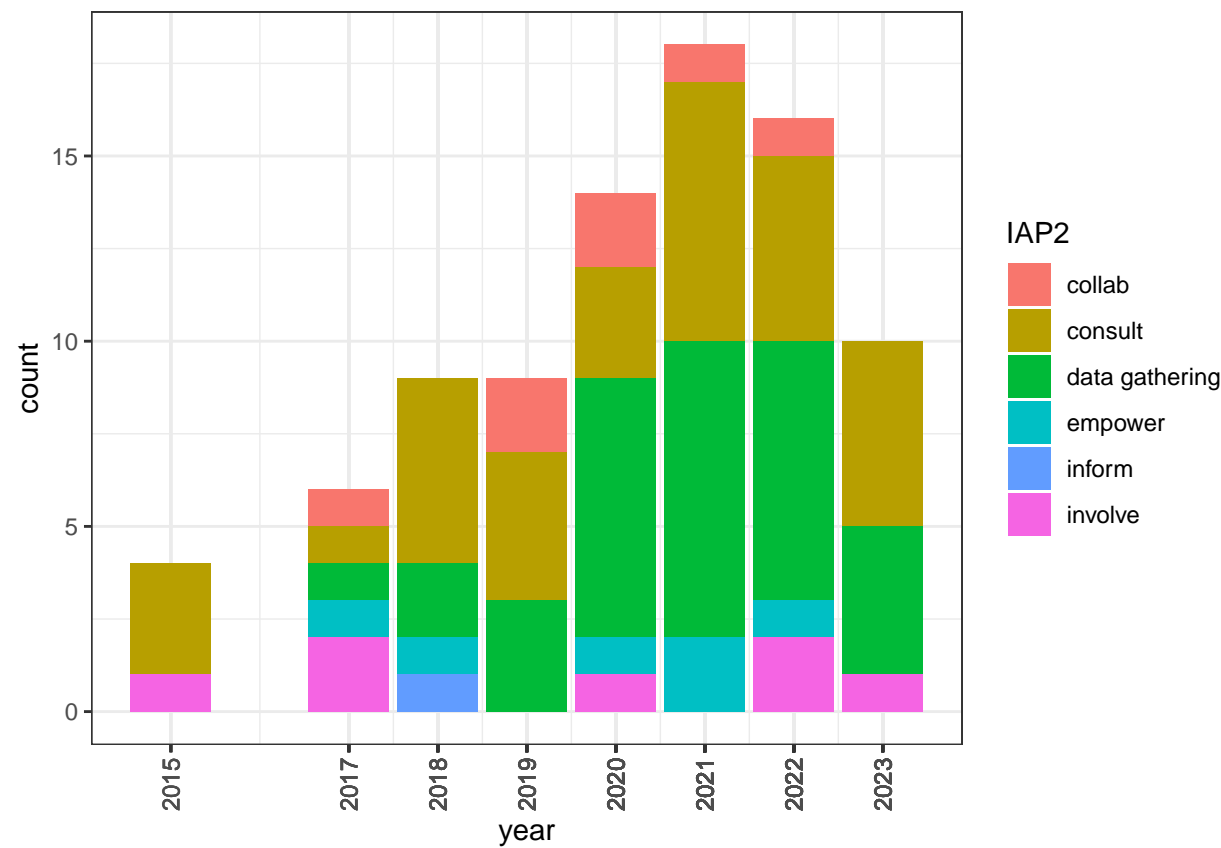
## All FEWS papers by year



Level of Stakeholder Engagement by Year - Ghodsvali

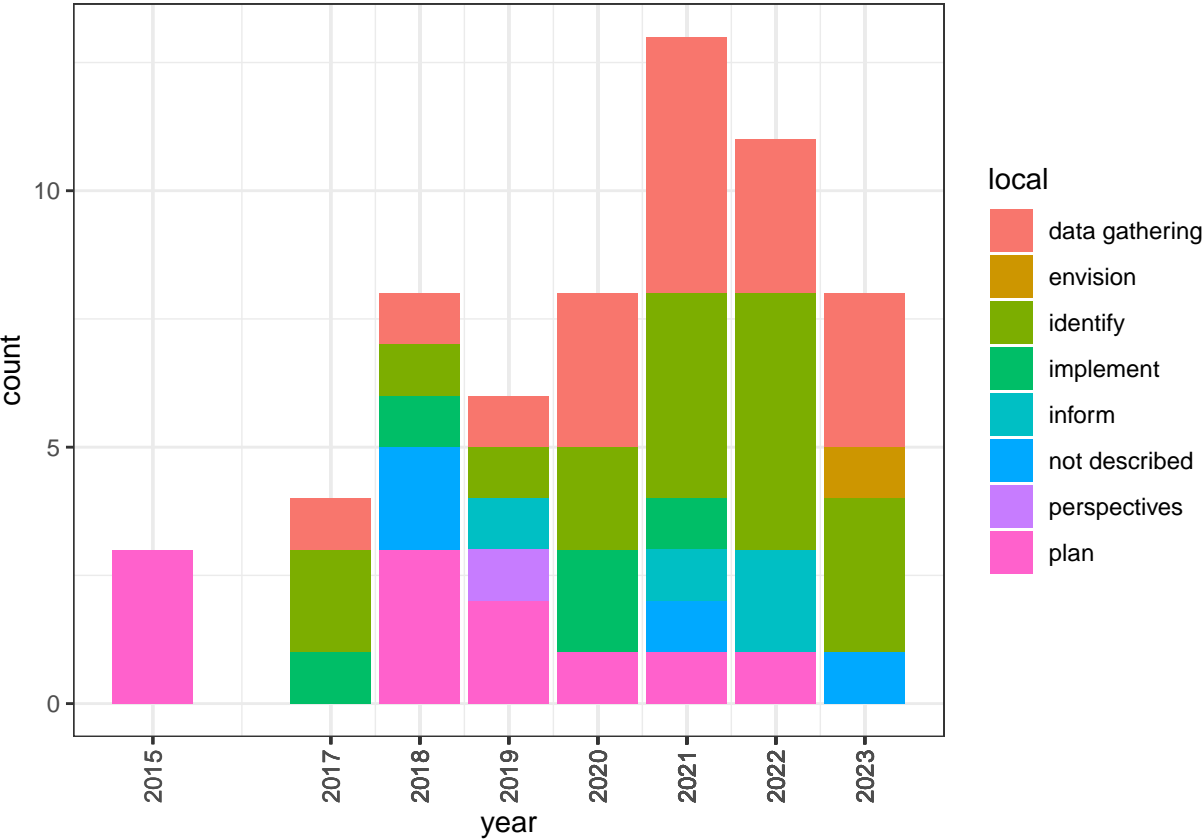


Level of Stakeholder Engagement by Year - IAP2

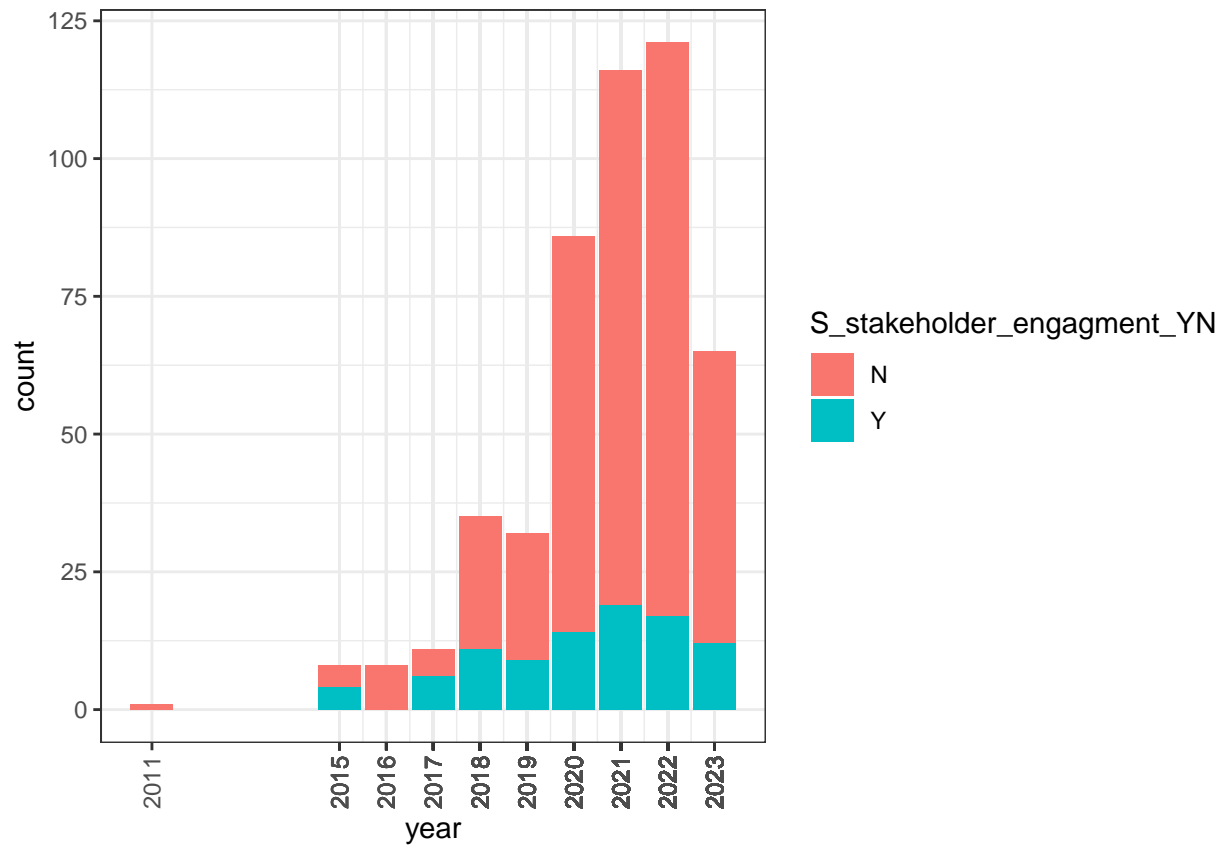




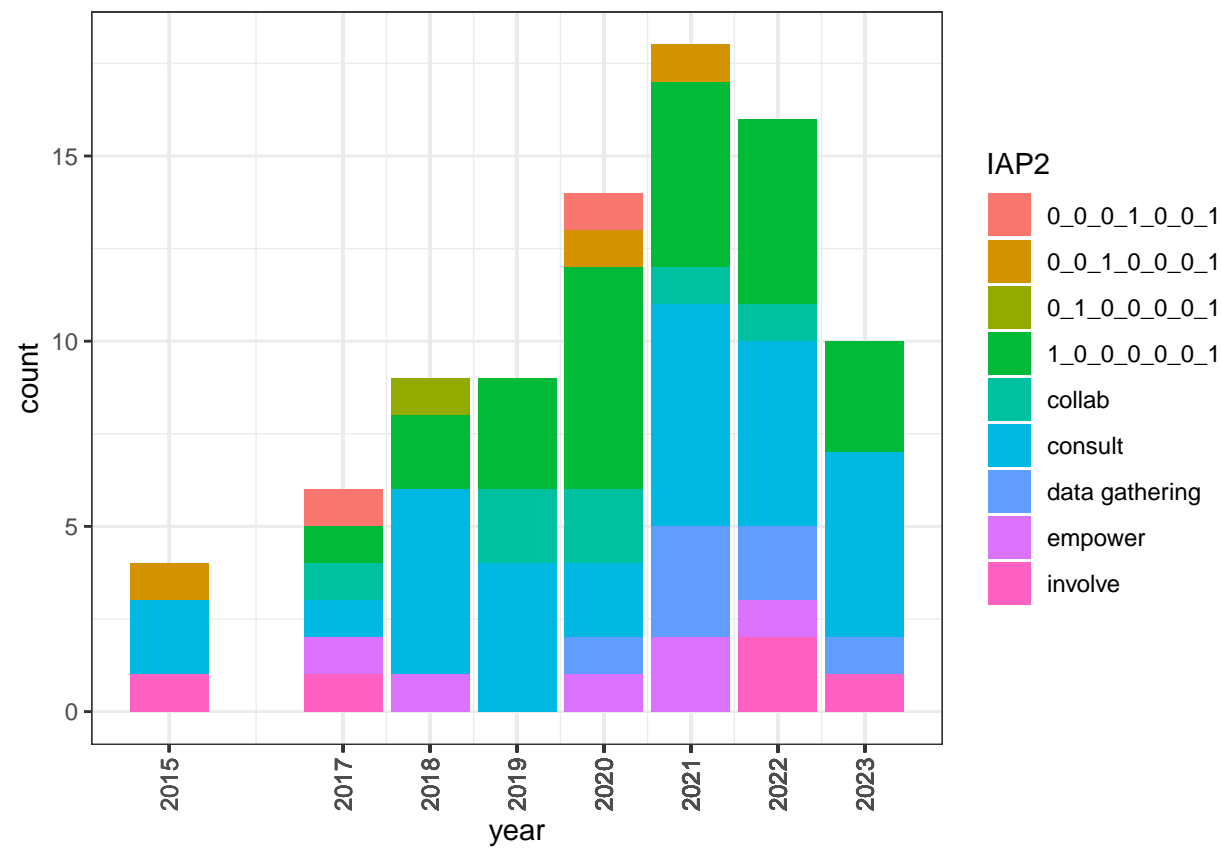
Level of Stakeholder Engagement by Year - local



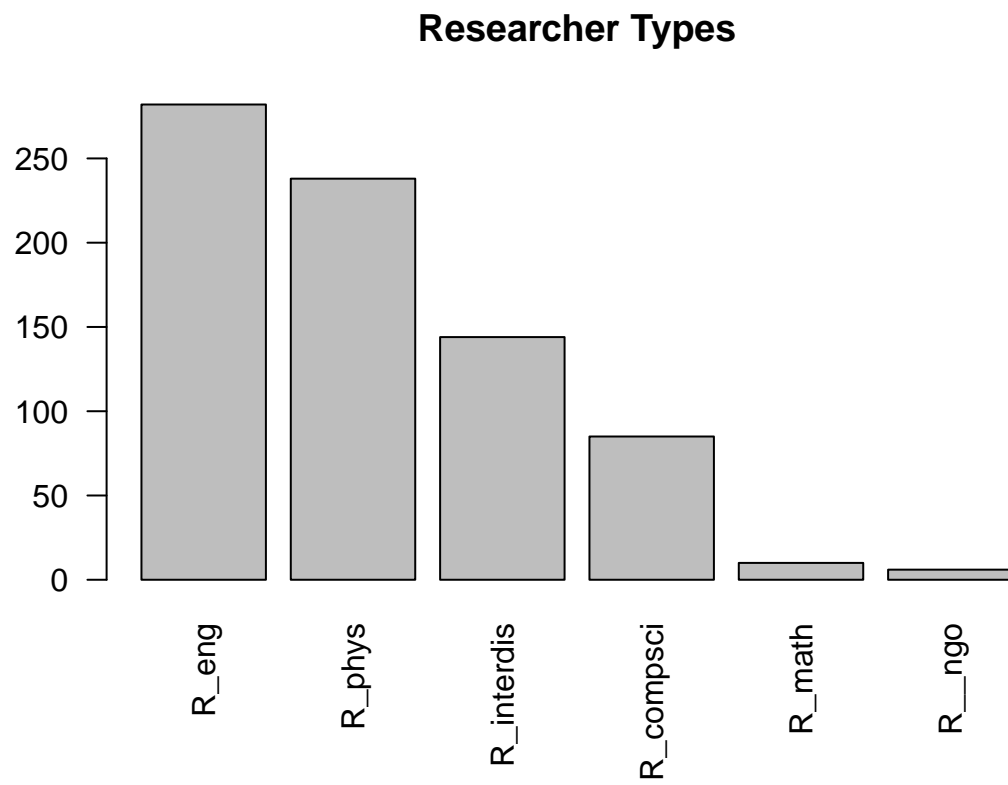
## stakeholder engagement by year



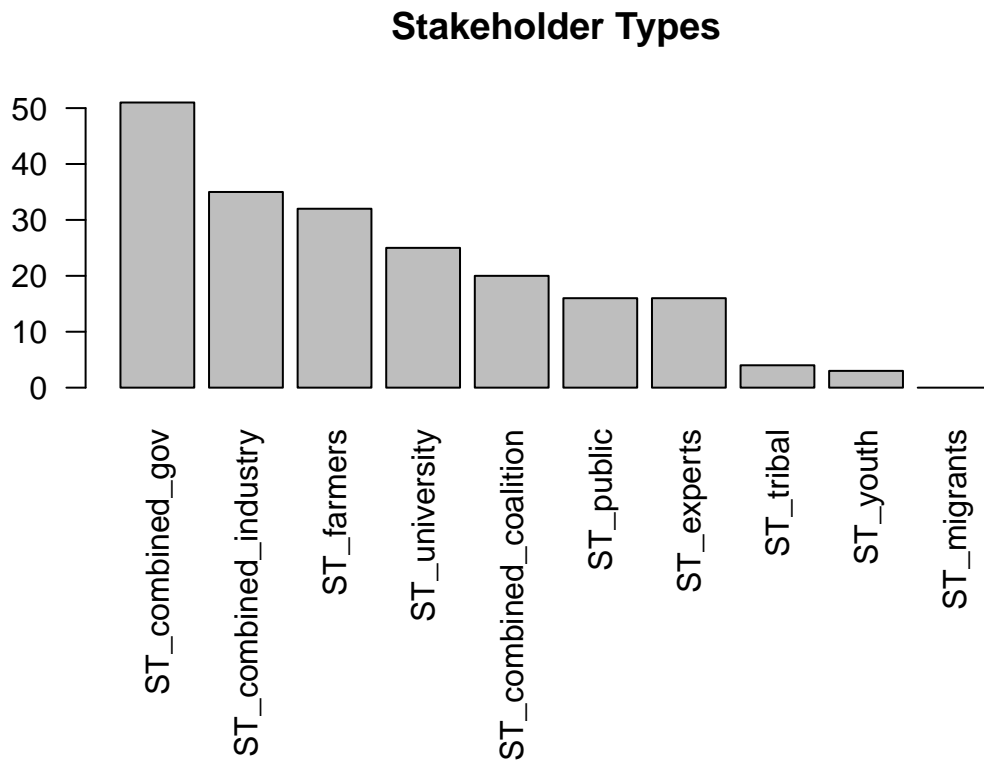
Level of Stakeholder Engagement by Year - local



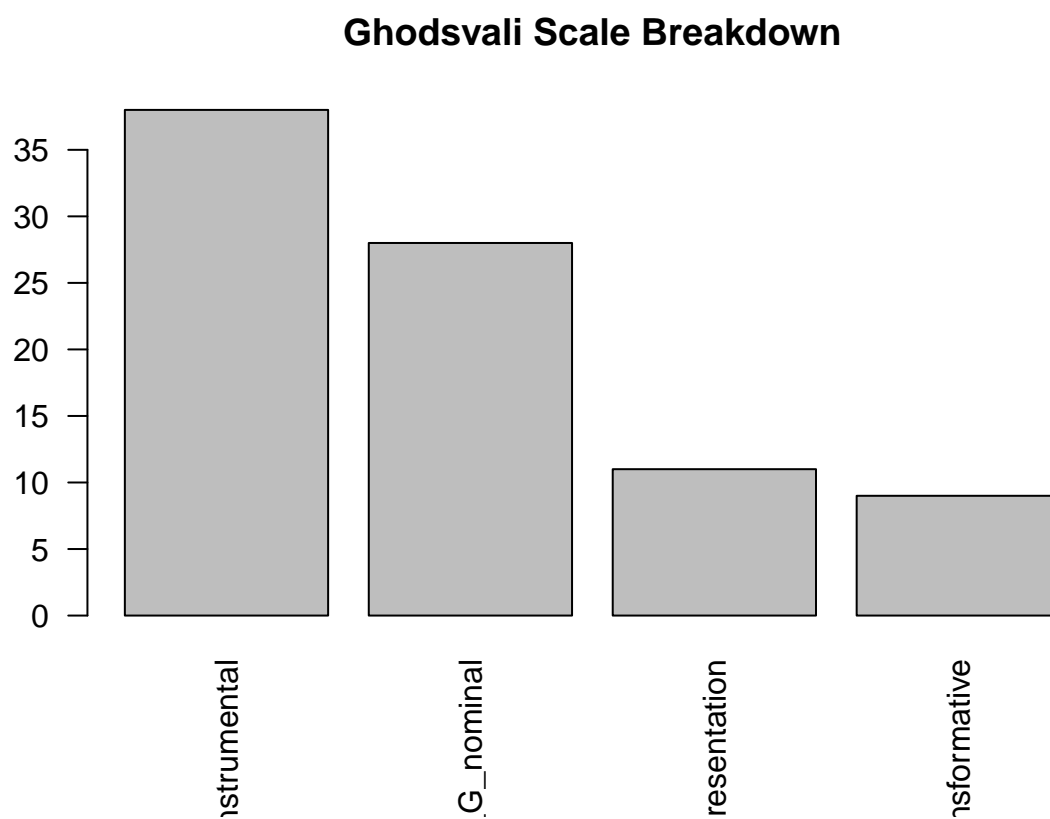
## Researcher Types



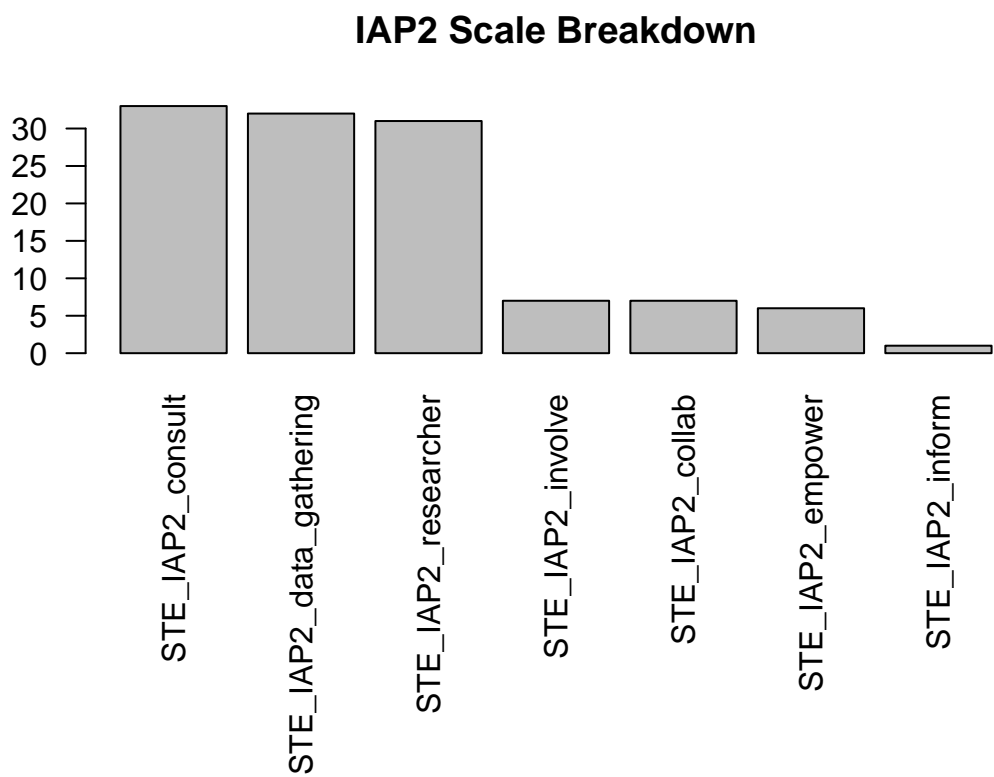
## Stakeholder Types



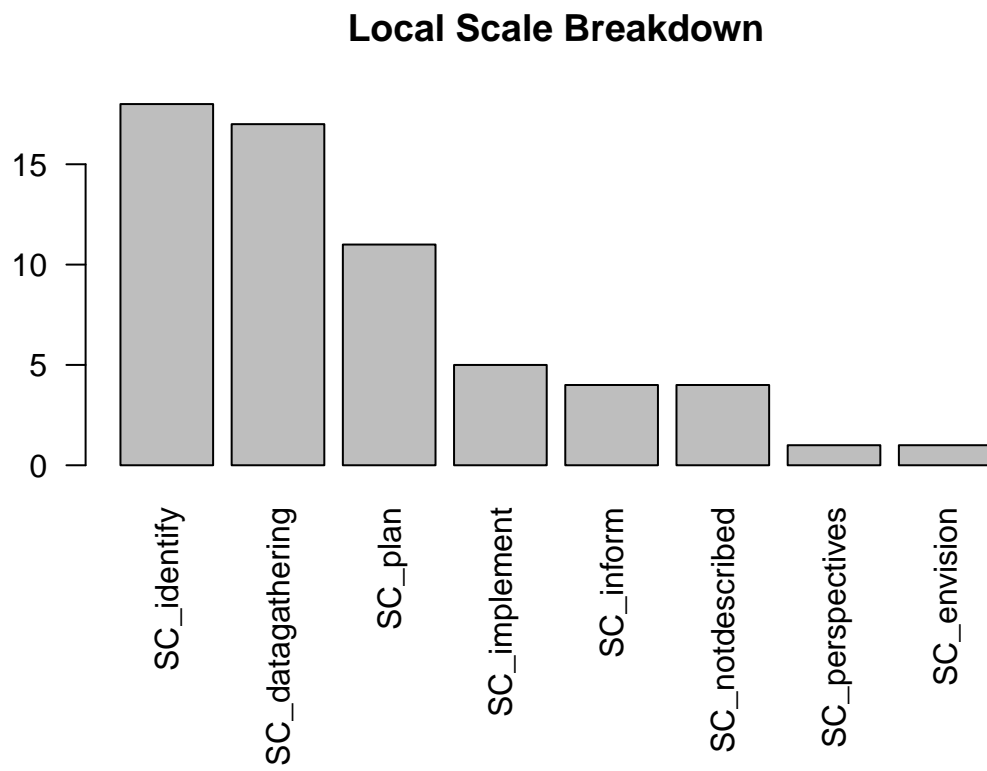
## Ghodsvali Scale Breakdown



IAP2 Scale Breakdown

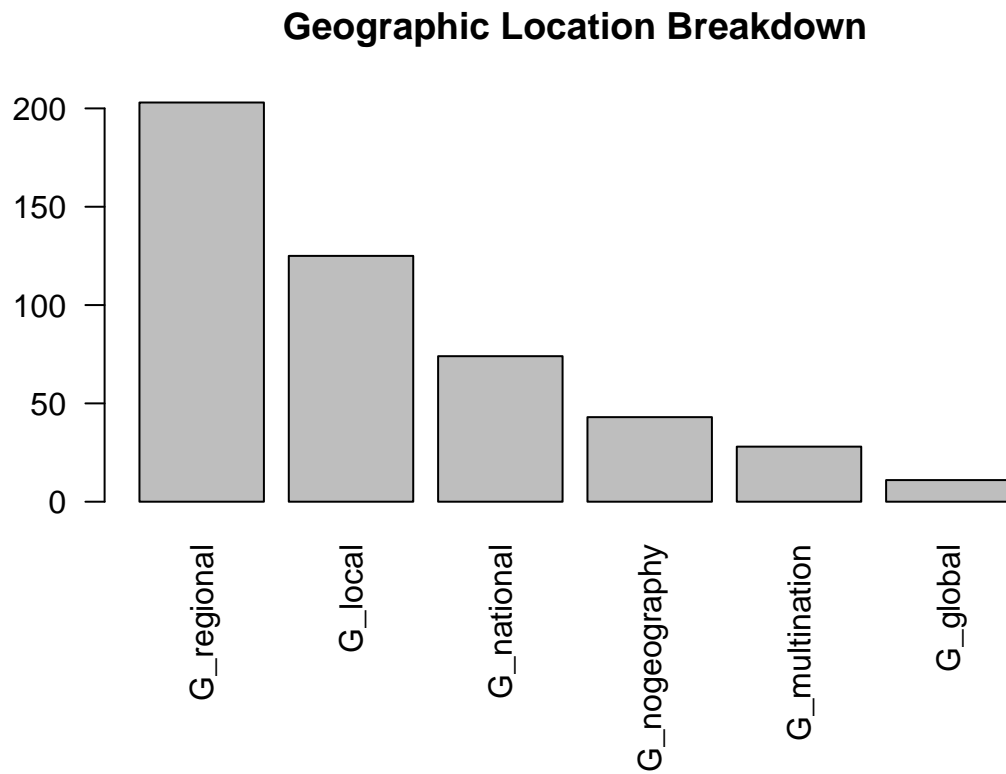


## Local Scale Breakdown





## Geographic Location Breakdown



## Ghodsvali - Odds of stakeholder scale predicting whether a solution was proposed or not

```
##
## Call:
## glm(formula = solution_proposed_YN ~ STE_G_nominal + STE_G_instrumental +
##      STE_G_representation + STE_G_transformative, family = binomial,
##      data = crcdata)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -1.7344  -0.1423  -0.1423  -0.1423   3.0324
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)    -4.5875     0.5025  -9.129  < 2e-16 ***
## STE_G_nominal     1.2917     1.1356   1.137  0.25535
## STE_G_instrumental  2.1308     0.7839   2.718  0.00656 **
## STE_G_representation  3.6067     0.8431   4.278 1.89e-05 ***
## STE_G_transformative  5.8403     0.9463   6.172 6.74e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 153.748  on 482  degrees of freedom
## Residual deviance:  96.785  on 478  degrees of freedom
## AIC: 106.79
##
## Number of Fisher Scoring iterations: 7

##
## Logistic regression predicting solution_proposed_YN
##
##              crude OR(95%CI)      adj. OR(95%CI)
## STE_G_nominal: 1 vs 0      0.95 (0.12,7.44)      3.64 (0.39,33.7)
##
## STE_G_instrumental: 1 vs 0    2.46 (0.68,8.9)      8.42 (1.81,39.14)
##
## STE_G_representation: 1 vs 0 11.42 (2.75,47.41)     36.84 (7.06,192.33)
##
## STE_G_transformative: 1 vs 0 147.32 (27.42,791.53) 343.87 (53.82,2197.12)
##
##              P(Wald's test) P(LR-test)
## STE_G_nominal: 1 vs 0      0.255      0.318
##
## STE_G_instrumental: 1 vs 0    0.007      0.015
##
## STE_G_representation: 1 vs 0 < 0.001      < 0.001
##
## STE_G_transformative: 1 vs 0 < 0.001      < 0.001
##
## Log-likelihood = -48.3926
```

```
## No. of observations = 483  
## AIC value = 106.7851
```

## IAP2 - Odds of stakeholder scale predicting whether a solution was proposed or not

```
##
## Call:
## glm(formula = solution_proposed_YN ~ STE_IAP2_data_gathering +
##     STE_IAP2_inform + STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab +
##     STE_IAP2_empower + STE_IAP2_researcher, family = binomial,
##     data = crcdata)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -1.0579  -0.1423  -0.1423  -0.1423   3.0324
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)    -4.5875     0.5025  -9.129 < 2e-16 ***
## STE_IAP2_data_gathering  1.6193     1.4775   1.096  0.27310
## STE_IAP2_inform    -12.3358    3956.1806  -0.003  0.99751
## STE_IAP2_consult     2.3309     0.7912   2.946  0.00322 **
## STE_IAP2_involve     2.9505     1.2283   2.402  0.01630 *
## STE_IAP2_collab      4.2998     0.9143   4.703 2.56e-06 ***
## STE_IAP2_empower     22.1536    1615.1039   0.014  0.98906
## STE_IAP2_researcher   -0.6428     1.4269  -0.450  0.65237
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 153.748  on 482  degrees of freedom
## Residual deviance:  88.836  on 475  degrees of freedom
## AIC: 104.84
##
## Number of Fisher Scoring iterations: 16

##
## Logistic regression predicting solution_proposed_YN
##
##              crude OR(95%CI)      adj. OR(95%CI)
## STE_IAP2_data_gathering: 1 vs 0  0.82 (0.11,6.39)  5.05 (0.28,91.39)
##
## STE_IAP2_inform: 1 vs 0          0 (0,Inf)        0 (0,Inf)
##
## STE_IAP2_consult: 1 vs 0         2.9 (0.8,10.57)   10.29 (2.18,48.5)
##
## STE_IAP2_involve: 1 vs 0         4.5 (0.51,39.48)   19.12 (1.72,212.29)
##
## STE_IAP2_collab: 1 vs 0          23.05 (4.73,112.22)  73.69 (12.28,442.2)
##
## STE_IAP2_empower: 1 vs 0         1648611478.8 (0,Inf)  4180027812.12 (0,Inf)
##
## STE_IAP2_researcher: 1 vs 0      0.85 (0.11,6.63)    0.53 (0.03,8.62)
##
```

	P(Wald's test)	P(LR-test)
## STE_IAP2_data_gathering: 1 vs 0	0.273	0.317
## STE_IAP2_inform: 1 vs 0	0.998	0.918
## STE_IAP2_consult: 1 vs 0	0.003	0.009
## STE_IAP2_involve: 1 vs 0	0.016	0.059
## STE_IAP2_collab: 1 vs 0	< 0.001	< 0.001
## STE_IAP2_empower: 1 vs 0	0.989	< 0.001
## STE_IAP2_researcher: 1 vs 0	0.652	0.644

## Log-likelihood = -44.4179  
 ## No. of observations = 483  
 ## AIC value = 104.8357

## Local - Odds of stakeholder scale predicting whether a solution was proposed or not

```
##
## Call:
## glm(formula = solution_proposed_YN ~ SC_datagathering + SC_inform +
##      SC_perspectives + SC_plan + SC_identify + SC_envision + SC_implement +
##      SC_notdescribed, family = binomial, data = crcdata)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -1.7941  -0.1544  -0.1544  -0.1544   2.9785
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)    -4.4236     0.4499  -9.833 < 2e-16 ***
## SC_datagathering -15.1424  2608.2313  -0.006   0.995
## SC_inform         4.4236     1.0965   4.034 5.48e-05 ***
## SC_perspectives -15.1424  10754.0130  -0.001   0.999
## SC_plan         -15.1424   3242.4569  -0.005   0.996
## SC_identify       3.7305     0.6726   5.546 2.92e-08 ***
## SC_envision      23.9897  10754.0130   0.002   0.998
## SC_implement      5.8099     1.2052   4.821 1.43e-06 ***
## SC_notdescribed -15.1424   5377.0065  -0.003   0.998
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 153.75  on 482  degrees of freedom
## Residual deviance:  87.76  on 474  degrees of freedom
## AIC: 105.76
##
## Number of Fisher Scoring iterations: 18

##
## Logistic regression predicting solution_proposed_YN
##
##              crude OR(95%CI)      adj. OR(95%CI)
## SC_datagathering: 1 vs 0  0 (0,Inf)      0 (0,Inf)
##
## SC_inform: 1 vs 0      28.94 (3.83,218.65)  83.4 (9.72,715.39)
##
## SC_perspectives: 1 vs 0  0 (0,Inf)      0 (0,Inf)
##
## SC_plan: 1 vs 0      0 (0,Inf)      0 (0,Inf)
##
## SC_identify: 1 vs 0      18.87 (6.06,58.74)  41.7 (11.16,155.83)
##
## SC_envision: 1 vs 0      157493116.45 (0,Inf)  26218125517.58 (0,Inf)
##
## SC_implement: 1 vs 0      132.57 (13.9,1263.96)  333.6 (31.43,3540.43)
##
```

```

## SC_notdescribed: 1 vs 0    0 (0,Inf)          0 (0,Inf)
##
##                               P(Wald's test) P(LR-test)
## SC_datagathering: 1 vs 0  0.995          0.529
##
## SC_inform: 1 vs 0          < 0.001          < 0.001
##
## SC_perspectives: 1 vs 0   0.999          0.877
##
## SC_plan: 1 vs 0           0.996          0.611
##
## SC_identify: 1 vs 0       < 0.001          < 0.001
##
## SC_envision: 1 vs 0       0.998          0.003
##
## SC_implement: 1 vs 0      < 0.001          < 0.001
##
## SC_notdescribed: 1 vs 0   0.998          0.758
##
## Log-likelihood = -43.88
## No. of observations = 483
## AIC value = 105.7599

```

## Engagement vs. solution

```
##
## Call:
## glm(formula = solution_proposed_YN ~ S_stakeholder_engagment_YN,
##      family = binomial, data = crcdata)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5746  -0.1434  -0.1434  -0.1434   3.0274
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)    -4.5721     0.5026  -9.097  < 2e-16 ***
## S_stakeholder_engagment_YN  2.8545     0.5804   4.918 8.73e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 153.75  on 482  degrees of freedom
## Residual deviance: 123.09  on 481  degrees of freedom
## AIC: 127.09
##
## Number of Fisher Scoring iterations: 7

##
## Logistic regression predicting solution_proposed_YN
##
##              OR(95%CI)          P(Wald's test)
## S_stakeholder_engagment_YN: 1 vs 0 17.37 (5.57,54.16) < 0.001
##
##              P(LR-test)
## S_stakeholder_engagment_YN: 1 vs 0 < 0.001
##
## Log-likelihood = -61.5436
## No. of observations = 483
## AIC value = 127.0872
```



## Use of computational model vs. solution

```
##
## Call:
## glm(formula = solution_proposed_YN ~ S_model_YN, family = binomial,
##      data = crcdata)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3203  -0.2628  -0.2628  -0.2628   2.6012
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  -2.9444      0.4588  -6.417 1.39e-10 ***
## S_model_YNY  -0.4041      0.5387  -0.750   0.453
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 153.75  on 482  degrees of freedom
## Residual deviance: 153.22  on 481  degrees of freedom
## AIC: 157.22
##
## Number of Fisher Scoring iterations: 6
##
## Logistic regression predicting solution_proposed_YN
##
##              OR(95%CI)      P(Wald's test) P(LR-test)
## S_model_YN (cont. var.) 0.67 (0.23,1.92)  0.453      0.466
##
## Log-likelihood = -76.6085
## No. of observations = 483
## AIC value = 157.2169
```

## Diversity of stakeholders vs solution

```
##
## Call:
## glm(formula = solution_proposed_YN ~ ST_ratio, family = binomial,
##      data = crcdata)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -1.7942  -0.1825  -0.1825  -0.1825   2.8648
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  -4.0868     0.3598 -11.360 < 2e-16 ***
## ST_ratio       7.8189     1.3777   5.675 1.38e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 153.75  on 482  degrees of freedom
## Residual deviance: 122.71  on 481  degrees of freedom
## AIC: 126.71
##
## Number of Fisher Scoring iterations: 6
##
## Logistic regression predicting solution_proposed_YN
##
##              OR(95%CI)              P(Wald's test) P(LR-test)
## ST_ratio (cont. var.) 2487.25 (167.12,37016.93) < 0.001      < 0.001
##
## Log-likelihood = -61.3545
## No. of observations = 483
## AIC value = 126.7089
```

## Diversity of Researchers vs solution

```
##
## Call:
## glm(formula = solution_proposed_YN ~ R_ratio, family = binomial,
##      data = crcdata)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2931  -0.2846  -0.2764  -0.2684   2.6296
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  -3.1262     0.4876  -6.412 1.44e-10 ***
## R_ratio       -0.5981     2.0612  -0.290   0.772
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 153.75  on 482  degrees of freedom
## Residual deviance: 153.66  on 481  degrees of freedom
## AIC: 157.66
##
## Number of Fisher Scoring iterations: 6

##
## Logistic regression predicting solution_proposed_YN
##
##              OR(95%CI)          P(Wald's test) P(LR-test)
## R_ratio (cont. var.) 0.55 (0.01,31.25)  0.772          0.769
##
## Log-likelihood = -76.8308
## No. of observations = 483
## AIC value = 157.6617
```

## Stakeholder type vs level of engagement (Ghodsvali)

```
## Response ST_farmers :
##
## Call:
## lm(formula = ST_farmers ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4444  0.0000  0.0000  0.0000  0.6786
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   1.389e-16  1.025e-02   0.000      1
## STE_G_nominal  3.214e-01  3.995e-02   8.046 6.83e-15 ***
## STE_G_instrumental  3.947e-01  3.469e-02  11.378 < 2e-16 ***
## STE_G_representation  3.636e-01  6.245e-02   5.823 1.06e-08 ***
## STE_G_transformative  4.444e-01  6.887e-02   6.453 2.69e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2043 on 478 degrees of freedom
## Multiple R-squared:  0.3322, Adjusted R-squared:  0.3266
## F-statistic: 59.45 on 4 and 478 DF, p-value: < 2.2e-16
##
## Response ST_combined_gov :
##
## Call:
## lm(formula = ST_combined_gov ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9091  0.0000  0.0000  0.0000  0.7500
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.153e-16  8.805e-03   0.000      1
## STE_G_nominal  2.500e-01  3.430e-02   7.288 1.31e-12 ***
## STE_G_instrumental  6.579e-01  2.979e-02  22.084 < 2e-16 ***
## STE_G_representation  9.091e-01  5.362e-02  16.953 < 2e-16 ***
## STE_G_transformative  1.000e+00  5.914e-02  16.910 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1754 on 478 degrees of freedom
## Multiple R-squared:  0.6775, Adjusted R-squared:  0.6748
## F-statistic: 251 on 4 and 478 DF, p-value: < 2.2e-16
##
## Response ST_tribal :
```

```

## Call:
## lm(formula = ST_tribal ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.1071  0.0000  0.0000  0.0000  0.9737
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   8.335e-17  4.387e-03   0.000   1.0000
## STE_G_nominal  1.071e-01  1.709e-02   6.269 8.14e-10 ***
## STE_G_instrumental  2.632e-02  1.484e-02   1.773  0.0769 .
## STE_G_representation -1.956e-17  2.672e-02   0.000   1.0000
## STE_G_transformative -1.957e-17  2.947e-02   0.000   1.0000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.08741 on 478 degrees of freedom
## Multiple R-squared:  0.07931, Adjusted R-squared:  0.07161
## F-statistic: 10.29 on 4 and 478 DF, p-value: 5.285e-08
##
##
## Response ST_combined_coalition :
##
## Call:
## lm(formula = ST_combined_coalition ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5556  0.0000  0.0000  0.0000  0.9286
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -3.997e-16  8.475e-03   0.000   1.000
## STE_G_nominal   7.143e-02  3.302e-02   2.163   0.031 *
## STE_G_instrumental  2.632e-01  2.867e-02   9.178 < 2e-16 ***
## STE_G_representation  2.727e-01  5.161e-02   5.284 1.92e-07 ***
## STE_G_transformative  5.556e-01  5.692e-02   9.760 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1689 on 478 degrees of freedom
## Multiple R-squared:  0.2891, Adjusted R-squared:  0.2831
## F-statistic: 48.59 on 4 and 478 DF, p-value: < 2.2e-16
##
##
## Response ST_combined_industry :
##
## Call:
## lm(formula = ST_combined_industry ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##

```

```

## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.63636 -0.00252 -0.00252 -0.00252  0.99748
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.002519   0.009635   0.261  0.79387
## STE_G_nominal    0.104624   0.037537   2.787  0.00553 **
## STE_G_instrumental 0.550113   0.032599  16.875 < 2e-16 ***
## STE_G_representation 0.633845   0.058679  10.802 < 2e-16 ***
## STE_G_transformative 0.330814   0.064713   5.112 4.62e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.192 on 478 degrees of freedom
## Multiple R-squared:  0.4574, Adjusted R-squared:  0.4528
## F-statistic: 100.7 on 4 and 478 DF,  p-value: < 2.2e-16
##
##
## Response ST_migrants :
##
## Call:
## lm(formula = ST_migrants ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
##       0       0       0       0       0
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)         0         0      NaN    NaN
## STE_G_nominal         0         0      NaN    NaN
## STE_G_instrumental     0         0      NaN    NaN
## STE_G_representation     0         0      NaN    NaN
## STE_G_transformative     0         0      NaN    NaN
##
## Residual standard error: 0 on 478 degrees of freedom
## Multiple R-squared:   NaN, Adjusted R-squared:   NaN
## F-statistic:   NaN on 4 and 478 DF,  p-value: NA
##
##
## Response ST_youth :
##
## Call:
## lm(formula = ST_youth ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.05263  0.00000  0.00000  0.00000  0.96429
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)

```

```

## (Intercept)          -2.210e-17  3.881e-03  0.000  1.0000
## STE_G_nominal         3.571e-02  1.512e-02  2.362  0.0186 *
## STE_G_instrumental    5.263e-02  1.313e-02  4.008  7.11e-05 ***
## STE_G_representation -9.566e-22  2.364e-02  0.000  1.0000
## STE_G_transformative  3.849e-19  2.607e-02  0.000  1.0000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.07734 on 478 degrees of freedom
## Multiple R-squared:  0.04104, Adjusted R-squared:  0.03301
## F-statistic: 5.114 on 4 and 478 DF, p-value: 0.0004836
##
##
## Response ST_public :
##
## Call:
## lm(formula = ST_public ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2857  0.0000  0.0000  0.0000  0.9091
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   1.743e-16  8.123e-03  0.000  1.0000
## STE_G_nominal  2.857e-01  3.165e-02  9.028 < 2e-16 ***
## STE_G_instrumental 1.316e-01  2.748e-02  4.788 2.25e-06 ***
## STE_G_representation 9.091e-02  4.947e-02  1.838  0.0667 .
## STE_G_transformative 2.222e-01  5.456e-02  4.073 5.43e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1618 on 478 degrees of freedom
## Multiple R-squared:  0.1906, Adjusted R-squared:  0.1839
## F-statistic: 28.14 on 4 and 478 DF, p-value: < 2.2e-16
##
##
## Response ST_university :
##
## Call:
## lm(formula = ST_university ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4444  0.0000  0.0000  0.0000  0.8929
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.395e-16  9.265e-03  0.000  1.00000
## STE_G_nominal  1.071e-01  3.609e-02  2.968  0.00314 **
## STE_G_instrumental 3.684e-01  3.135e-02 11.753 < 2e-16 ***
## STE_G_representation 3.636e-01  5.642e-02  6.445 2.83e-10 ***

```

```

## STE_G_transformative 4.444e-01 6.223e-02 7.142 3.44e-12 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1846 on 478 degrees of freedom
## Multiple R-squared:  0.3129, Adjusted R-squared:  0.3072
## F-statistic: 54.42 on 4 and 478 DF,  p-value: < 2.2e-16
##
##
## Response ST_experts :
##
## Call:
## lm(formula = ST_experts ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2368  0.0000  0.0000  0.0000  0.8889
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -2.513e-16  8.220e-03   0.000 1.000000
## STE_G_nominal    1.429e-01  3.202e-02   4.461 1.02e-05 ***
## STE_G_instrumental 2.368e-01  2.781e-02   8.516 < 2e-16 ***
## STE_G_representation 1.818e-01  5.006e-02   3.632 0.000312 ***
## STE_G_transformative 1.111e-01  5.521e-02   2.013 0.044724 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1638 on 478 degrees of freedom
## Multiple R-squared:  0.1712, Adjusted R-squared:  0.1642
## F-statistic: 24.68 on 4 and 478 DF,  p-value: < 2.2e-16

```



## Stakeholder type vs level of engagement (IAP2)

```
## Response ST_farmers :
##
## Call:
## lm(formula = ST_farmers ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5000  0.0000  0.0000  0.0000  0.9494
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    3.435e-16  1.004e-02   0.000 1.000000
## STE_IAP2_data_gathering  4.447e-01  6.239e-02   7.127 3.84e-12 ***
## STE_IAP2_inform        1.292e-01  2.105e-01   0.614 0.539816
## STE_IAP2_consult       4.663e-01  3.673e-02  12.695 < 2e-16 ***
## STE_IAP2_involve      1.798e-01  7.850e-02   2.290 0.022467 *
## STE_IAP2_collab       2.857e-01  7.631e-02   3.744 0.000203 ***
## STE_IAP2_empower      5.000e-01  8.232e-02   6.074 2.56e-09 ***
## STE_IAP2_researcher   -1.292e-01  6.451e-02  -2.002 0.045839 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2001 on 475 degrees of freedom
## Multiple R-squared:  0.3633, Adjusted R-squared:  0.3539
## F-statistic: 38.71 on 7 and 475 DF,  p-value: < 2.2e-16
##
## Response ST_combined_gov :
##
## Call:
## lm(formula = ST_combined_gov ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9502  0.0000  0.0000  0.0000  0.8206
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    9.093e-17  8.768e-03   0.000 1.00000
## STE_IAP2_data_gathering  1.794e-01  5.446e-02   3.295 0.00106 **
## STE_IAP2_inform        8.697e-01  1.838e-01   4.733 2.93e-06 ***
## STE_IAP2_consult       6.548e-01  3.206e-02  20.425 < 2e-16 ***
## STE_IAP2_involve      8.199e-01  6.852e-02  11.965 < 2e-16 ***
## STE_IAP2_collab       1.000e+00  6.661e-02  15.013 < 2e-16 ***
## STE_IAP2_empower      1.000e+00  7.185e-02  13.917 < 2e-16 ***
## STE_IAP2_researcher    1.303e-01  5.631e-02   2.315 0.02106 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
## Residual standard error: 0.1747 on 475 degrees of freedom
## Multiple R-squared:  0.6822, Adjusted R-squared:  0.6775
## F-statistic: 145.7 on 7 and 475 DF,  p-value: < 2.2e-16
##
##
## Response ST_tribal :
##
## Call:
## lm(formula = ST_tribal ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.1290  0.0000  0.0000  0.0000  0.9656
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.137e-16  4.411e-03   0.000  1.0000
## STE_IAP2_data_gathering  1.290e-01  2.740e-02   4.710 3.26e-06 ***
## STE_IAP2_inform        4.516e-02  9.244e-02   0.489  0.6254
## STE_IAP2_consult       3.441e-02  1.613e-02   2.133  0.0334 *
## STE_IAP2_involve       1.290e-02  3.447e-02   0.374  0.7083
## STE_IAP2_collab       -5.947e-17  3.351e-02   0.000  1.0000
## STE_IAP2_empower      -5.563e-18  3.615e-02   0.000  1.0000
## STE_IAP2_researcher    -4.516e-02  2.833e-02  -1.594  0.1116
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.08789 on 475 degrees of freedom
## Multiple R-squared:  0.07514, Adjusted R-squared:  0.06151
## F-statistic: 5.513 on 7 and 475 DF,  p-value: 4.123e-06
##
##
## Response ST_combined_coalition :
##
## Call:
## lm(formula = ST_combined_coalition ~ STE_IAP2_data_gathering +
##     STE_IAP2_inform + STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab +
##     STE_IAP2_empower + STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5714  0.0000  0.0000  0.0000  0.8747
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.478e-16  8.106e-03   0.000  1.00000
## STE_IAP2_data_gathering -1.617e-01  5.035e-02  -3.212  0.00141 **
## STE_IAP2_inform       -2.870e-01  1.699e-01  -1.689  0.09180 .
## STE_IAP2_consult       2.466e-01  2.964e-02   8.321 9.31e-16 ***
## STE_IAP2_involve       3.466e-01  6.335e-02   5.471 7.26e-08 ***
## STE_IAP2_collab       5.714e-01  6.158e-02   9.280 < 2e-16 ***
```

```

## STE_IAP2_empower      3.333e-01  6.643e-02   5.018 7.40e-07 ***
## STE_IAP2_researcher   2.870e-01  5.206e-02   5.513 5.80e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1615 on 475 degrees of freedom
## Multiple R-squared:  0.3538, Adjusted R-squared:  0.3442
## F-statistic: 37.15 on 7 and 475 DF,  p-value: < 2.2e-16
##
##
## Response ST_combined_industry :
##
## Call:
## lm(formula = ST_combined_industry ~ STE_IAP2_data_gathering +
##     STE_IAP2_inform + STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab +
##     STE_IAP2_empower + STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.71613 -0.00252 -0.00252 -0.00252  0.99748
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.002519   0.009670   0.260  0.794603
## STE_IAP2_data_gathering 0.158771   0.060065   2.643  0.008481 **
## STE_IAP2_inform      0.003933   0.202667   0.019  0.984526
## STE_IAP2_consult     0.573825   0.035360  16.228 < 2e-16 ***
## STE_IAP2_involve     0.713610   0.075576   9.442 < 2e-16 ***
## STE_IAP2_collab      0.283195   0.073463   3.855  0.000132 ***
## STE_IAP2_empower     0.497481   0.079251   6.277 7.78e-10 ***
## STE_IAP2_researcher  -0.006452   0.062106  -0.104  0.917308
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1927 on 475 degrees of freedom
## Multiple R-squared:  0.4568, Adjusted R-squared:  0.4488
## F-statistic: 57.07 on 7 and 475 DF,  p-value: < 2.2e-16
##
##
## Response ST_migrants :
##
## Call:
## lm(formula = ST_migrants ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
##       0       0       0       0       0
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)           0           0      NaN      NaN
## STE_IAP2_data_gathering 0           0      NaN      NaN

```

```

## STE_IAP2_inform           0           0      NaN      NaN
## STE_IAP2_consult          0           0      NaN      NaN
## STE_IAP2_involve          0           0      NaN      NaN
## STE_IAP2_collab           0           0      NaN      NaN
## STE_IAP2_empower          0           0      NaN      NaN
## STE_IAP2_researcher       0           0      NaN      NaN
##
## Residual standard error: 0 on 475 degrees of freedom
## Multiple R-squared:      NaN, Adjusted R-squared:      NaN
## F-statistic:      NaN on 7 and 475 DF, p-value: NA
##
##
## Response ST_youth :
##
## Call:
## lm(formula = ST_youth ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.06409  0.00000  0.00000  0.00000  0.96791
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.200e-17  3.886e-03   0.000   1.000
## STE_IAP2_data_gathering  2.825e-02  2.414e-02   1.171   0.242
## STE_IAP2_inform      -3.837e-03  8.144e-02  -0.047   0.962
## STE_IAP2_consult       6.026e-02  1.421e-02   4.241 2.68e-05 ***
## STE_IAP2_involve      -1.096e-03  3.037e-02  -0.036   0.971
## STE_IAP2_collab      -2.708e-17  2.952e-02   0.000   1.000
## STE_IAP2_empower       6.422e-18  3.185e-02   0.000   1.000
## STE_IAP2_researcher    3.837e-03  2.496e-02   0.154   0.878
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.07742 on 475 degrees of freedom
## Multiple R-squared:  0.04494, Adjusted R-squared:  0.03086
## F-statistic: 3.193 on 7 and 475 DF, p-value: 0.002588
##
##
## Response ST_public :
##
## Call:
## lm(formula = ST_public ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3333  0.0000  0.0000  0.0000  0.8818
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)

```

```

## (Intercept)          7.578e-17  8.031e-03  0.000  1.0000
## STE_IAP2_data_gathering 2.553e-01  4.989e-02  5.118  4.49e-07 ***
## STE_IAP2_inform       -3.319e-02  1.683e-01 -0.197  0.8438
## STE_IAP2_consult      1.182e-01  2.937e-02  4.025  6.64e-05 ***
## STE_IAP2_involve      1.334e-01  6.277e-02  2.125  0.0341 *
## STE_IAP2_collab      -2.294e-15  6.101e-02  0.000  1.0000
## STE_IAP2_empower      3.333e-01  6.582e-02  5.064  5.88e-07 ***
## STE_IAP2_researcher    3.319e-02  5.158e-02  0.643  0.5203
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.16 on 475 degrees of freedom
## Multiple R-squared:  0.2137, Adjusted R-squared:  0.2021
## F-statistic: 18.44 on 7 and 475 DF,  p-value: < 2.2e-16
##
##
## Response ST_university :
##
## Call:
## lm(formula = ST_university ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4334  0.0000  0.0000  0.0000  0.8787
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -3.662e-17  9.251e-03   0.000  1.0000
## STE_IAP2_data_gathering 1.383e-01  5.746e-02   2.407  0.0165 *
## STE_IAP2_inform    1.704e-02  1.939e-01   0.088  0.9300
## STE_IAP2_consult    3.955e-01  3.383e-02  11.691 < 2e-16 ***
## STE_IAP2_involve    4.334e-01  7.230e-02   5.995  4.03e-09 ***
## STE_IAP2_collab     4.286e-01  7.028e-02   6.098  2.22e-09 ***
## STE_IAP2_empower    3.333e-01  7.582e-02   4.397  1.36e-05 ***
## STE_IAP2_researcher  -1.704e-02  5.941e-02  -0.287  0.7744
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1843 on 475 degrees of freedom
## Multiple R-squared:  0.3192, Adjusted R-squared:  0.3092
## F-statistic: 31.82 on 7 and 475 DF,  p-value: < 2.2e-16
##
##
## Response ST_experts :
##
## Call:
## lm(formula = ST_experts ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max

```

```

## -0.3456  0.0000  0.0000  0.0000  0.9376
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -1.294e-16  8.066e-03   0.000  1.0000
## STE_IAP2_data_gathering  6.241e-02  5.010e-02   1.246  0.2135
## STE_IAP2_inform    -8.012e-02  1.691e-01  -0.474  0.6358
## STE_IAP2_consult    2.654e-01  2.950e-02   8.999 < 2e-16 ***
## STE_IAP2_involve    1.200e-01  6.304e-02   1.903  0.0576 .
## STE_IAP2_collab    2.857e-01  6.128e-02   4.663 4.06e-06 ***
## STE_IAP2_empower    3.555e-17  6.611e-02   0.000  1.0000
## STE_IAP2_researcher    8.012e-02  5.181e-02   1.547  0.1226
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1607 on 475 degrees of freedom
## Multiple R-squared:  0.2069, Adjusted R-squared:  0.1952
## F-statistic: 17.7 on 7 and 475 DF, p-value: < 2.2e-16

```

## Stakeholder type vs level of engagement (local)

```
## Response ST_farmers :
##
## Call:
## lm(formula = ST_farmers ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.47059 -0.02133 -0.02133 -0.02133  0.97867
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.02133    0.01021   2.088  0.0373 *
## SC_datagathering 0.44926    0.05191   8.655 < 2e-16 ***
## SC_inform      -0.02133    0.10541  -0.202  0.8398
## SC_perspectives 0.97867    0.21008   4.659 4.14e-06 ***
## SC_plan        0.25140    0.06409   3.923  0.0001 ***
## SC_identify     0.42312    0.05050   8.378 6.14e-16 ***
## SC_envision     0.97867    0.21008   4.659 4.14e-06 ***
## SC_implement    0.37867    0.09439   4.012 7.00e-05 ***
## SC_notdescribed -0.02133    0.10541  -0.202  0.8398
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2098 on 474 degrees of freedom
## Multiple R-squared:  0.3016, Adjusted R-squared:  0.2898
## F-statistic: 25.58 on 8 and 474 DF,  p-value: < 2.2e-16
##
##
## Response ST_combined_gov :
##
## Call:
## lm(formula = ST_combined_gov ~ SC_datagathering + SC_inform +
##     SC_perspectives + SC_plan + SC_identify + SC_envision + SC_implement +
##     SC_notdescribed, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.83333 -0.02844 -0.02844 -0.02844  0.97156
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.02844    0.01014   2.803  0.00527 **
## SC_datagathering 0.32451    0.05155   6.295 7.03e-10 ***
## SC_inform      0.97156    0.10469   9.280 < 2e-16 ***
## SC_perspectives 0.97156    0.20865   4.656 4.18e-06 ***
## SC_plan        0.60793    0.06365   9.551 < 2e-16 ***
## SC_identify     0.80490    0.05016  16.047 < 2e-16 ***
## SC_envision     0.97156    0.20865   4.656 4.18e-06 ***
## SC_implement    0.97156    0.09375  10.363 < 2e-16 ***
## SC_notdescribed -0.02844    0.10469  -0.272  0.78604
```

```

## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2084 on 474 degrees of freedom
## Multiple R-squared:  0.5487, Adjusted R-squared:  0.5411
## F-statistic: 72.03 on 8 and 474 DF,  p-value: < 2.2e-16
##
##
## Response ST_tribal :
##
## Call:
## lm(formula = ST_tribal ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.11765 -0.00474 -0.00474 -0.00474  0.99526
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.004739   0.004333   1.094   0.275
## SC_datagathering  0.112908   0.022018   5.128 4.28e-07 ***
## SC_inform       -0.004739   0.044714  -0.106   0.916
## SC_perspectives -0.004739   0.089113  -0.053   0.958
## SC_plan         -0.004739   0.027184  -0.174   0.862
## SC_identify     -0.004739   0.021422  -0.221   0.825
## SC_envision     -0.004739   0.089113  -0.053   0.958
## SC_implement    -0.004739   0.040041  -0.118   0.906
## SC_notdescribed -0.004739   0.044714  -0.106   0.916
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.08901 on 474 degrees of freedom
## Multiple R-squared:  0.05335, Adjusted R-squared:  0.03738
## F-statistic: 3.339 on 8 and 474 DF,  p-value: 0.000989
##
##
## Response ST_combined_coalition :
##
## Call:
## lm(formula = ST_combined_coalition ~ SC_datagathering + SC_inform +
##     SC_perspectives + SC_plan + SC_identify + SC_envision + SC_implement +
##     SC_notdescribed, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.38889 -0.01422 -0.01422 -0.01422  0.98578
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.014218   0.008621   1.649  0.09975 .
## SC_datagathering  0.044606   0.043808   1.018  0.30910
## SC_inform       0.235782   0.088965   2.650  0.00831 **

```



```

## SC_perspectives    0.985782    0.177302    5.560 4.51e-08 ***
## SC_plan            0.258509    0.054087    4.780 2.35e-06 ***
## SC_identify        0.374671    0.042622    8.791 < 2e-16 ***
## SC_envision        -0.014218    0.177302   -0.080 0.93612
## SC_implement        0.185782    0.079666    2.332 0.02012 *
## SC_notdescribed    -0.014218    0.088965   -0.160 0.87309
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1771 on 474 degrees of freedom
## Multiple R-squared:  0.2246, Adjusted R-squared:  0.2115
## F-statistic: 17.16 on 8 and 474 DF,  p-value: < 2.2e-16
##
##
## Response ST_combined_industry :
##
## Call:
## lm(formula = ST_combined_industry ~ SC_datagathering + SC_inform +
##     SC_perspectives + SC_plan + SC_identify + SC_envision + SC_implement +
##     SC_notdescribed, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.72222 -0.01659 -0.01659 -0.01659  0.98341
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.016588   0.009805   1.692   0.0914 .
## SC_datagathering 0.218706   0.049827   4.389 1.40e-05 ***
## SC_inform       0.483412   0.101189   4.777 2.37e-06 ***
## SC_perspectives -0.016588   0.201663  -0.082   0.9345
## SC_plan         0.437958   0.061518   7.119 4.05e-12 ***
## SC_identify     0.705635   0.048478  14.556 < 2e-16 ***
## SC_envision     0.983412   0.201663   4.877 1.48e-06 ***
## SC_implement    0.383412   0.090612   4.231 2.79e-05 ***
## SC_notdescribed 0.233412   0.101189   2.307  0.0215 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2014 on 474 degrees of freedom
## Multiple R-squared:  0.4076, Adjusted R-squared:  0.3976
## F-statistic: 40.77 on 8 and 474 DF,  p-value: < 2.2e-16
##
##
## Response ST_migrants :
##
## Call:
## lm(formula = ST_migrants ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
##       0       0       0       0       0

```

```
##
## Coefficients:
##           Estimate Std. Error t value Pr(>|t|)
## (Intercept)           0           0     NaN     NaN
## SC_datagathering       0           0     NaN     NaN
## SC_inform              0           0     NaN     NaN
## SC_perspectives        0           0     NaN     NaN
## SC_plan                0           0     NaN     NaN
## SC_identify            0           0     NaN     NaN
## SC_envision            0           0     NaN     NaN
## SC_implement           0           0     NaN     NaN
## SC_notdescribed        0           0     NaN     NaN
##
## Residual standard error: 0 on 474 degrees of freedom
## Multiple R-squared:  NaN, Adjusted R-squared:  NaN
## F-statistic:  NaN on 8 and 474 DF, p-value: NA
##
##
## Response ST_youth :
##
## Call:
## lm(formula = ST_youth ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.09091 -0.00237 -0.00237 -0.00237  0.99763
##
## Coefficients:
##           Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.002370   0.003775   0.628 0.530532
## SC_datagathering -0.002370   0.019186  -0.124 0.901753
## SC_inform      -0.002370   0.038962  -0.061 0.951528
## SC_perspectives -0.002370   0.077649  -0.031 0.975667
## SC_plan        0.088539   0.023687   3.738 0.000208 ***
## SC_identify     0.053186   0.018666   2.849 0.004572 **
## SC_envision     -0.002370   0.077649  -0.031 0.975667
## SC_implement    -0.002370   0.034890  -0.068 0.945879
## SC_notdescribed -0.002370   0.038962  -0.061 0.951528
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.07756 on 474 degrees of freedom
## Multiple R-squared:  0.04367, Adjusted R-squared:  0.02753
## F-statistic: 2.706 on 8 and 474 DF, p-value: 0.006394
##
##
## Response ST_public :
##
## Call:
## lm(formula = ST_public ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
```

```
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.40000 -0.01896 -0.01896 -0.01896  0.98104
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.01896    0.00844   2.246  0.02516 *
## SC_datagathering 0.09869    0.04289   2.301  0.02183 *
## SC_inform       0.23104    0.08710   2.653  0.00826 **
## SC_perspectives -0.01896    0.17359  -0.109  0.91309
## SC_plan         0.07195    0.05296   1.359  0.17488
## SC_identify     0.09215    0.04173   2.208  0.02770 *
## SC_envision     -0.01896    0.17359  -0.109  0.91309
## SC_implement    0.38104    0.07800   4.885 1.42e-06 ***
## SC_notdescribed -0.01896    0.08710  -0.218  0.82780
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1734 on 474 degrees of freedom
## Multiple R-squared:  0.07887, Adjusted R-squared:  0.06332
## F-statistic: 5.073 on 8 and 474 DF, p-value: 4.544e-06
##
##
## Response ST_university :
##
## Call:
## lm(formula = ST_university ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.50000 -0.01185 -0.01185 -0.01185  0.98815
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.01185    0.00911   1.301  0.194039
## SC_datagathering 0.16462    0.04630   3.556  0.000414 ***
## SC_inform       0.48815    0.09402   5.192 3.09e-07 ***
## SC_perspectives -0.01185    0.18737  -0.063  0.949605
## SC_plan         0.35179    0.05716   6.155 1.60e-09 ***
## SC_identify     0.43260    0.04504   9.604 < 2e-16 ***
## SC_envision     0.98815    0.18737   5.274 2.03e-07 ***
## SC_implement    0.38815    0.08419   4.610 5.17e-06 ***
## SC_notdescribed -0.01185    0.09402  -0.126  0.899765
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1871 on 474 degrees of freedom
## Multiple R-squared:  0.2997, Adjusted R-squared:  0.2879
## F-statistic: 25.36 on 8 and 474 DF, p-value: < 2.2e-16
##
##
```

```

## Response ST_experts :
##
## Call:
## lm(formula = ST_experts ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.50000 -0.01185 -0.01185 -0.01185  0.98815
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.011848   0.007813   1.516  0.13007
## SC_datagathering 0.105799   0.039704   2.665  0.00797 **
## SC_inform       0.488152   0.080630   6.054 2.87e-09 ***
## SC_perspectives -0.011848   0.160691  -0.074  0.94125
## SC_plan         0.442697   0.049020   9.031 < 2e-16 ***
## SC_identify     0.099263   0.038629   2.570  0.01048 *
## SC_envision     -0.011848   0.160691  -0.074  0.94125
## SC_implement    -0.011848   0.072202  -0.164  0.86972
## SC_notdescribed -0.011848   0.080630  -0.147  0.88324
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1605 on 474 degrees of freedom
## Multiple R-squared:  0.2107, Adjusted R-squared:  0.1974
## F-statistic: 15.82 on 8 and 474 DF, p-value: < 2.2e-16

```

## Stakeholder type vs solution

```
##
## Call:
## glm(formula = solution_proposed_YN ~ ST_farmers + ST_combined_gov +
##      ST_tribal + ST_combined_coalition + ST_combined_industry +
##      ST_migrants + ST_youth + ST_public + ST_university + ST_experts,
##      family = binomial, data = crcdata)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -1.2308  -0.1333  -0.1333  -0.1333   3.0748
##
## Coefficients: (1 not defined because of singularities)
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)    -4.7183     0.5068  -9.310 < 2e-16 ***
## ST_farmers       0.7904     0.7745   1.020  0.308
## ST_combined_gov  3.5784     0.7733   4.627 3.7e-06 ***
## ST_tribal      -14.4256    1810.3784  -0.008  0.994
## ST_combined_coalition -0.2779     0.7639  -0.364  0.716
## ST_combined_industry -0.6386     0.7963  -0.802  0.423
## ST_migrants           NA           NA      NA      NA
## ST_youth        -15.6653    1939.1448  -0.008  0.994
## ST_public         0.7992     0.7884   1.014  0.311
## ST_university     0.2918     0.7387   0.395  0.693
## ST_experts        0.4654     0.8261   0.563  0.573
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 153.75  on 482  degrees of freedom
## Residual deviance: 101.16  on 473  degrees of freedom
## AIC: 121.16
##
## Number of Fisher Scoring iterations: 16
```

## Geographic area vs solution

```
##
## Call:
## glm(formula = solution_proposed_YN ~ G_local + G_regional + G_national +
##      G_multination + G_global, family = binomial, data = crcdata)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5010  -0.3118  -0.2450  -0.2450   2.7017
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)   -3.6234     0.9172  -3.951  7.8e-05 ***
## G_local         0.6236     0.9934   0.628   0.530
## G_regional      0.1319     1.0065   0.131   0.896
## G_national      0.9877     1.0097   0.978   0.328
## G_multination -14.9427    1232.6632  -0.012   0.990
## G_global       -14.9427    1966.6497  -0.008   0.994
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 153.75  on 482  degrees of freedom
## Residual deviance: 148.35  on 477  degrees of freedom
## AIC: 160.35
##
## Number of Fisher Scoring iterations: 17
##
## Logistic regression predicting solution_proposed_YN
##
##              crude OR(95%CI)   adj. OR(95%CI)   P(Wald's test)
## G_local: 1 vs 0           1.45 (0.53,3.96)   1.87 (0.27,13.07)   0.53
##
## G_regional: 1 vs 0        0.68 (0.25,1.84)   1.14 (0.16,8.2)    0.896
##
## G_national: 1 vs 0        2.21 (0.76,6.39)   2.69 (0.37,19.43)  0.328
##
## G_multination: 1 vs 0     0 (0,Inf)           0 (0,Inf)           0.99
##
## G_global: 1 vs 0          0 (0,Inf)           0 (0,Inf)           0.994
##
##              P(LR-test)
## G_local: 1 vs 0          0.509
##
## G_regional: 1 vs 0       0.894
##
## G_national: 1 vs 0       0.295
##
## G_multination: 1 vs 0    0.282
##
## G_global: 1 vs 0         0.471
```

```
##  
## Log-likelihood = -74.1769  
## No. of observations = 483  
## AIC value = 160.3537
```

## stakeholder type vs geographic area

```
## Response ST_farmers :
##
## Call:
## lm(formula = ST_farmers ~ G_local + G_regional + G_national +
##     G_multination + G_global, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.13965 -0.07389 -0.07389 -0.03918  0.96429
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.003248   0.037430   0.087   0.9309
## G_local       0.100465   0.043266   2.322   0.0207 *
## G_regional    0.070644   0.041286   1.711   0.0877 .
## G_national    0.035935   0.046866   0.767   0.4436
## G_multination 0.032467   0.060013   0.541   0.5888
## G_global     -0.003248   0.083680  -0.039   0.9691
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2482 on 477 degrees of freedom
## Multiple R-squared:  0.01639,    Adjusted R-squared:  0.006083
## F-statistic: 1.59 on 5 and 477 DF,  p-value: 0.1613
##
##
## Response ST_combined_gov :
##
## Call:
## lm(formula = ST_combined_gov ~ G_local + G_regional + G_national +
##     G_multination + G_global, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.18923 -0.11944 -0.11330 -0.07143  0.94909
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.05091   0.04645   1.096   0.274
## G_local       0.06853   0.05370   1.276   0.203
## G_regional    0.06239   0.05124   1.218   0.224
## G_national    0.06978   0.05817   1.200   0.231
## G_multination 0.02052   0.07448   0.275   0.783
## G_global     -0.05091   0.10386  -0.490   0.624
##
## Residual standard error: 0.3081 on 477 degrees of freedom
## Multiple R-squared:  0.007528,    Adjusted R-squared:  -0.002875
## F-statistic: 0.7236 on 5 and 477 DF,  p-value: 0.606
##
##
## Response ST_tribal :
##
```



```

## Call:
## lm(formula = ST_tribal ~ G_local + G_regional + G_national +
##      G_multination + G_global, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.02401 -0.02358 -0.00493 -0.00054  0.99507
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.0005384  0.0136751   0.039   0.969
## G_local      0.0234684  0.0158073   1.485   0.138
## G_regional   0.0043877  0.0150839   0.291   0.771
## G_national   -0.0008555  0.0171225  -0.050   0.960
## G_multination -0.0005384  0.0219258  -0.025   0.980
## G_global     -0.0005384  0.0305726  -0.018   0.986
##
## Residual standard error: 0.09069 on 477 degrees of freedom
## Multiple R-squared:  0.01105,    Adjusted R-squared:  0.0006802
## F-statistic: 1.066 on 5 and 477 DF,  p-value: 0.3786
##
##
## Response ST_combined_coalition :
##
## Call:
## lm(formula = ST_combined_coalition ~ G_local + G_regional + G_national +
##      G_multination + G_global, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.09641 -0.04926 -0.04926 -0.03148  0.96852
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.002242  0.030103   0.074   0.9407
## G_local      0.029238  0.034797   0.840   0.4012
## G_regional   0.047019  0.033204   1.416   0.1574
## G_national   0.064930  0.037692   1.723   0.0856 .
## G_multination 0.033472  0.048265   0.694   0.4883
## G_global     -0.002242  0.067299  -0.033   0.9734
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1996 on 477 degrees of freedom
## Multiple R-squared:  0.008447,    Adjusted R-squared:  -0.001946
## F-statistic: 0.8127 on 5 and 477 DF,  p-value: 0.5409
##
##
## Response ST_combined_industry :
##
## Call:
## lm(formula = ST_combined_industry ~ G_local + G_regional + G_national +
##      G_multination + G_global, data = crcdata)
##

```

```

## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.14668 -0.08374 -0.08374 -0.07946  0.97333
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.02667    0.03912   0.682   0.496
## G_local        0.05280    0.04522   1.168   0.244
## G_regional     0.05708    0.04315   1.323   0.187
## G_national     0.06721    0.04898   1.372   0.171
## G_multination -0.02667    0.06272  -0.425   0.671
## G_global      -0.02667    0.08745  -0.305   0.761
##
## Residual standard error: 0.2594 on 477 degrees of freedom
## Multiple R-squared:  0.01127,    Adjusted R-squared:  0.0009061
## F-statistic: 1.087 on 5 and 477 DF,  p-value: 0.3664
##
##
## Response ST_migrants :
##
## Call:
## lm(formula = ST_migrants ~ G_local + G_regional + G_national +
##      G_multination + G_global, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
##       0       0       0       0       0
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)         0         0      NaN    NaN
## G_local             0         0      NaN    NaN
## G_regional          0         0      NaN    NaN
## G_national          0         0      NaN    NaN
## G_multination       0         0      NaN    NaN
## G_global            0         0      NaN    NaN
##
## Residual standard error: 0 on 477 degrees of freedom
## Multiple R-squared:   NaN,    Adjusted R-squared:   NaN
## F-statistic:   NaN on 5 and 477 DF,  p-value: NA
##
##
## Response ST_youth :
##
## Call:
## lm(formula = ST_youth ~ G_local + G_regional + G_national + G_multination +
##      G_global, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.01600 -0.01600 -0.00493 -0.00036  0.99507
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)

```

```

## (Intercept)    0.0003589  0.0118848  0.030  0.976
## G_local        0.0156456  0.0137378  1.139  0.255
## G_regional     0.0045672  0.0131091  0.348  0.728
## G_national     -0.0005704  0.0148808  -0.038  0.969
## G_multination -0.0003589  0.0190552  -0.019  0.985
## G_global       -0.0003589  0.0265700  -0.014  0.989
##
## Residual standard error: 0.07882 on 477 degrees of freedom
## Multiple R-squared:  0.006139, Adjusted R-squared:  -0.004279
## F-statistic: 0.5892 on 5 and 477 DF, p-value: 0.7082
##
##
## Response ST_public :
##
## Call:
## lm(formula = ST_public ~ G_local + G_regional + G_national +
##     G_multination + G_global, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.06427 -0.04722 -0.02463 -0.01328  0.98672
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.04722    0.02697   1.751  0.0806 .
## G_local        0.01705    0.03117   0.547  0.5846
## G_regional     -0.02259    0.02974  -0.759  0.4480
## G_national     -0.03393    0.03376  -1.005  0.3154
## G_multination -0.04722    0.04324  -1.092  0.2754
## G_global       -0.04722    0.06029  -0.783  0.4339
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1788 on 477 degrees of freedom
## Multiple R-squared:  0.0139, Adjusted R-squared:  0.003563
## F-statistic: 1.345 on 5 and 477 DF, p-value: 0.2441
##
##
## Response ST_university :
##
## Call:
## lm(formula = ST_university ~ G_local + G_regional + G_national +
##     G_multination + G_global, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.10037 -0.05911 -0.05911 -0.03145  0.97441
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.025590   0.033428   0.766   0.444
## G_local        0.005859   0.038641   0.152   0.880
## G_regional     0.033523   0.036872   0.909   0.364
## G_national     0.068925   0.041856   1.647   0.100

```

```

## G_multination 0.010124 0.053597 0.189 0.850
## G_global      -0.025590 0.074734 -0.342 0.732
##
## Residual standard error: 0.2217 on 477 degrees of freedom
## Multiple R-squared: 0.01114, Adjusted R-squared: 0.000774
## F-statistic: 1.075 on 5 and 477 DF, p-value: 0.3735
##
##
## Response ST_experts :
##
## Call:
## lm(formula = ST_experts ~ G_local + G_regional + G_national +
##     G_multination + G_global, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.05476 -0.04926 -0.04035 -0.01569  0.98431
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.001273  0.027023   0.047   0.962
## G_local        0.014414  0.031237   0.461   0.645
## G_regional     0.047988  0.029807   1.610   0.108
## G_national     0.039072  0.033836   1.155   0.249
## G_multination  0.034441  0.043327   0.795   0.427
## G_global      -0.001273  0.060414  -0.021   0.983
##
## Residual standard error: 0.1792 on 477 degrees of freedom
## Multiple R-squared: 0.009743, Adjusted R-squared: -0.0006375
## F-statistic: 0.9386 on 5 and 477 DF, p-value: 0.4556

```

## Geographic area vs engagment (Ghodsvali)

```
## Response ST_farmers :
##
## Call:
## lm(formula = ST_farmers ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4444  0.0000  0.0000  0.0000  0.6786
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.389e-16  1.025e-02   0.000      1
## STE_G_nominal    3.214e-01  3.995e-02   8.046 6.83e-15 ***
## STE_G_instrumental  3.947e-01  3.469e-02  11.378 < 2e-16 ***
## STE_G_representation 3.636e-01  6.245e-02   5.823 1.06e-08 ***
## STE_G_transformative 4.444e-01  6.887e-02   6.453 2.69e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2043 on 478 degrees of freedom
## Multiple R-squared:  0.3322, Adjusted R-squared:  0.3266
## F-statistic: 59.45 on 4 and 478 DF, p-value: < 2.2e-16
##
## Response ST_combined_gov :
##
## Call:
## lm(formula = ST_combined_gov ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9091  0.0000  0.0000  0.0000  0.7500
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -5.153e-16  8.805e-03   0.000      1
## STE_G_nominal    2.500e-01  3.430e-02   7.288 1.31e-12 ***
## STE_G_instrumental  6.579e-01  2.979e-02  22.084 < 2e-16 ***
## STE_G_representation  9.091e-01  5.362e-02  16.953 < 2e-16 ***
## STE_G_transformative  1.000e+00  5.914e-02  16.910 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1754 on 478 degrees of freedom
## Multiple R-squared:  0.6775, Adjusted R-squared:  0.6748
## F-statistic: 251 on 4 and 478 DF, p-value: < 2.2e-16
##
## Response ST_tribal :
```

```

## Call:
## lm(formula = ST_tribal ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.1071   0.0000   0.0000   0.0000   0.9737
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    8.335e-17  4.387e-03   0.000   1.0000
## STE_G_nominal    1.071e-01  1.709e-02   6.269 8.14e-10 ***
## STE_G_instrumental  2.632e-02  1.484e-02   1.773  0.0769 .
## STE_G_representation -1.956e-17  2.672e-02   0.000   1.0000
## STE_G_transformative -1.957e-17  2.947e-02   0.000   1.0000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.08741 on 478 degrees of freedom
## Multiple R-squared:  0.07931, Adjusted R-squared:  0.07161
## F-statistic: 10.29 on 4 and 478 DF, p-value: 5.285e-08
##
##
## Response ST_combined_coalition :
##
## Call:
## lm(formula = ST_combined_coalition ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5556   0.0000   0.0000   0.0000   0.9286
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -3.997e-16  8.475e-03   0.000   1.000
## STE_G_nominal    7.143e-02  3.302e-02   2.163   0.031 *
## STE_G_instrumental  2.632e-01  2.867e-02   9.178 < 2e-16 ***
## STE_G_representation  2.727e-01  5.161e-02   5.284 1.92e-07 ***
## STE_G_transformative  5.556e-01  5.692e-02   9.760 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1689 on 478 degrees of freedom
## Multiple R-squared:  0.2891, Adjusted R-squared:  0.2831
## F-statistic: 48.59 on 4 and 478 DF, p-value: < 2.2e-16
##
##
## Response ST_combined_industry :
##
## Call:
## lm(formula = ST_combined_industry ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##

```

```

## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.63636 -0.00252 -0.00252 -0.00252  0.99748
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.002519   0.009635   0.261  0.79387
## STE_G_nominal    0.104624   0.037537   2.787  0.00553 **
## STE_G_instrumental 0.550113   0.032599  16.875 < 2e-16 ***
## STE_G_representation 0.633845   0.058679  10.802 < 2e-16 ***
## STE_G_transformative 0.330814   0.064713   5.112 4.62e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.192 on 478 degrees of freedom
## Multiple R-squared:  0.4574, Adjusted R-squared:  0.4528
## F-statistic: 100.7 on 4 and 478 DF,  p-value: < 2.2e-16
##
##
## Response ST_migrants :
##
## Call:
## lm(formula = ST_migrants ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
##       0       0       0       0       0
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)          0          0      NaN      NaN
## STE_G_nominal          0          0      NaN      NaN
## STE_G_instrumental      0          0      NaN      NaN
## STE_G_representation      0          0      NaN      NaN
## STE_G_transformative      0          0      NaN      NaN
##
## Residual standard error: 0 on 478 degrees of freedom
## Multiple R-squared:    NaN, Adjusted R-squared:    NaN
## F-statistic:    NaN on 4 and 478 DF,  p-value: NA
##
##
## Response ST_youth :
##
## Call:
## lm(formula = ST_youth ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.05263  0.00000  0.00000  0.00000  0.96429
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)

```

```

## (Intercept)          -2.210e-17  3.881e-03  0.000  1.0000
## STE_G_nominal         3.571e-02  1.512e-02  2.362  0.0186 *
## STE_G_instrumental    5.263e-02  1.313e-02  4.008  7.11e-05 ***
## STE_G_representation -9.566e-22  2.364e-02  0.000  1.0000
## STE_G_transformative  3.849e-19  2.607e-02  0.000  1.0000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.07734 on 478 degrees of freedom
## Multiple R-squared:  0.04104, Adjusted R-squared:  0.03301
## F-statistic: 5.114 on 4 and 478 DF, p-value: 0.0004836
##
##
## Response ST_public :
##
## Call:
## lm(formula = ST_public ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2857  0.0000  0.0000  0.0000  0.9091
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   1.743e-16  8.123e-03  0.000  1.0000
## STE_G_nominal  2.857e-01  3.165e-02  9.028 < 2e-16 ***
## STE_G_instrumental 1.316e-01  2.748e-02  4.788 2.25e-06 ***
## STE_G_representation 9.091e-02  4.947e-02  1.838  0.0667 .
## STE_G_transformative 2.222e-01  5.456e-02  4.073 5.43e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1618 on 478 degrees of freedom
## Multiple R-squared:  0.1906, Adjusted R-squared:  0.1839
## F-statistic: 28.14 on 4 and 478 DF, p-value: < 2.2e-16
##
##
## Response ST_university :
##
## Call:
## lm(formula = ST_university ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4444  0.0000  0.0000  0.0000  0.8929
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -4.395e-16  9.265e-03  0.000  1.00000
## STE_G_nominal  1.071e-01  3.609e-02  2.968  0.00314 **
## STE_G_instrumental 3.684e-01  3.135e-02 11.753 < 2e-16 ***
## STE_G_representation 3.636e-01  5.642e-02  6.445 2.83e-10 ***

```



```

## STE_G_transformative 4.444e-01 6.223e-02 7.142 3.44e-12 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1846 on 478 degrees of freedom
## Multiple R-squared:  0.3129, Adjusted R-squared:  0.3072
## F-statistic: 54.42 on 4 and 478 DF,  p-value: < 2.2e-16
##
##
## Response ST_experts :
##
## Call:
## lm(formula = ST_experts ~ STE_G_nominal + STE_G_instrumental +
##     STE_G_representation + STE_G_transformative, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2368  0.0000  0.0000  0.0000  0.8889
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -2.513e-16  8.220e-03   0.000 1.000000
## STE_G_nominal    1.429e-01  3.202e-02   4.461 1.02e-05 ***
## STE_G_instrumental 2.368e-01  2.781e-02   8.516 < 2e-16 ***
## STE_G_representation 1.818e-01  5.006e-02   3.632 0.000312 ***
## STE_G_transformative 1.111e-01  5.521e-02   2.013 0.044724 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1638 on 478 degrees of freedom
## Multiple R-squared:  0.1712, Adjusted R-squared:  0.1642
## F-statistic: 24.68 on 4 and 478 DF,  p-value: < 2.2e-16

```

## Geographic area vs engagment (IAP2)

```
## Response ST_farmers :
##
## Call:
## lm(formula = ST_farmers ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5000  0.0000  0.0000  0.0000  0.9494
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    3.435e-16  1.004e-02   0.000 1.000000
## STE_IAP2_data_gathering  4.447e-01  6.239e-02   7.127 3.84e-12 ***
## STE_IAP2_inform      1.292e-01  2.105e-01   0.614 0.539816
## STE_IAP2_consult     4.663e-01  3.673e-02  12.695 < 2e-16 ***
## STE_IAP2_involve     1.798e-01  7.850e-02   2.290 0.022467 *
## STE_IAP2_collab      2.857e-01  7.631e-02   3.744 0.000203 ***
## STE_IAP2_empower     5.000e-01  8.232e-02   6.074 2.56e-09 ***
## STE_IAP2_researcher   -1.292e-01  6.451e-02  -2.002 0.045839 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2001 on 475 degrees of freedom
## Multiple R-squared:  0.3633, Adjusted R-squared:  0.3539
## F-statistic: 38.71 on 7 and 475 DF,  p-value: < 2.2e-16
##
## Response ST_combined_gov :
##
## Call:
## lm(formula = ST_combined_gov ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9502  0.0000  0.0000  0.0000  0.8206
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    9.093e-17  8.768e-03   0.000 1.000000
## STE_IAP2_data_gathering  1.794e-01  5.446e-02   3.295 0.00106 **
## STE_IAP2_inform      8.697e-01  1.838e-01   4.733 2.93e-06 ***
## STE_IAP2_consult     6.548e-01  3.206e-02  20.425 < 2e-16 ***
## STE_IAP2_involve     8.199e-01  6.852e-02  11.965 < 2e-16 ***
## STE_IAP2_collab      1.000e+00  6.661e-02  15.013 < 2e-16 ***
## STE_IAP2_empower     1.000e+00  7.185e-02  13.917 < 2e-16 ***
## STE_IAP2_researcher   1.303e-01  5.631e-02   2.315 0.02106 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
## Residual standard error: 0.1747 on 475 degrees of freedom
## Multiple R-squared:  0.6822, Adjusted R-squared:  0.6775
## F-statistic: 145.7 on 7 and 475 DF,  p-value: < 2.2e-16
##
##
## Response ST_tribal :
##
## Call:
## lm(formula = ST_tribal ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.1290  0.0000  0.0000  0.0000  0.9656
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.137e-16  4.411e-03   0.000  1.0000
## STE_IAP2_data_gathering  1.290e-01  2.740e-02   4.710 3.26e-06 ***
## STE_IAP2_inform        4.516e-02  9.244e-02   0.489  0.6254
## STE_IAP2_consult       3.441e-02  1.613e-02   2.133  0.0334 *
## STE_IAP2_involve       1.290e-02  3.447e-02   0.374  0.7083
## STE_IAP2_collab      -5.947e-17  3.351e-02   0.000  1.0000
## STE_IAP2_empower      -5.563e-18  3.615e-02   0.000  1.0000
## STE_IAP2_researcher   -4.516e-02  2.833e-02  -1.594  0.1116
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.08789 on 475 degrees of freedom
## Multiple R-squared:  0.07514, Adjusted R-squared:  0.06151
## F-statistic: 5.513 on 7 and 475 DF,  p-value: 4.123e-06
##
##
## Response ST_combined_coalition :
##
## Call:
## lm(formula = ST_combined_coalition ~ STE_IAP2_data_gathering +
##     STE_IAP2_inform + STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab +
##     STE_IAP2_empower + STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5714  0.0000  0.0000  0.0000  0.8747
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.478e-16  8.106e-03   0.000  1.00000
## STE_IAP2_data_gathering -1.617e-01  5.035e-02  -3.212  0.00141 **
## STE_IAP2_inform      -2.870e-01  1.699e-01  -1.689  0.09180 .
## STE_IAP2_consult      2.466e-01  2.964e-02   8.321 9.31e-16 ***
## STE_IAP2_involve      3.466e-01  6.335e-02   5.471 7.26e-08 ***
## STE_IAP2_collab       5.714e-01  6.158e-02   9.280 < 2e-16 ***
```

```

## STE_IAP2_empower      3.333e-01  6.643e-02   5.018 7.40e-07 ***
## STE_IAP2_researcher   2.870e-01  5.206e-02   5.513 5.80e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1615 on 475 degrees of freedom
## Multiple R-squared:  0.3538, Adjusted R-squared:  0.3442
## F-statistic: 37.15 on 7 and 475 DF,  p-value: < 2.2e-16
##
##
## Response ST_combined_industry :
##
## Call:
## lm(formula = ST_combined_industry ~ STE_IAP2_data_gathering +
##     STE_IAP2_inform + STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab +
##     STE_IAP2_empower + STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.71613 -0.00252 -0.00252 -0.00252  0.99748
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.002519   0.009670   0.260  0.794603
## STE_IAP2_data_gathering 0.158771   0.060065   2.643  0.008481 **
## STE_IAP2_inform      0.003933   0.202667   0.019  0.984526
## STE_IAP2_consult     0.573825   0.035360  16.228 < 2e-16 ***
## STE_IAP2_involve     0.713610   0.075576   9.442 < 2e-16 ***
## STE_IAP2_collab      0.283195   0.073463   3.855  0.000132 ***
## STE_IAP2_empower     0.497481   0.079251   6.277 7.78e-10 ***
## STE_IAP2_researcher  -0.006452   0.062106  -0.104  0.917308
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1927 on 475 degrees of freedom
## Multiple R-squared:  0.4568, Adjusted R-squared:  0.4488
## F-statistic: 57.07 on 7 and 475 DF,  p-value: < 2.2e-16
##
##
## Response ST_migrants :
##
## Call:
## lm(formula = ST_migrants ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
##       0       0       0       0       0
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)           0           0     NaN     NaN
## STE_IAP2_data_gathering 0           0     NaN     NaN

```

```

## STE_IAP2_inform          0          0      NaN      NaN
## STE_IAP2_consult         0          0      NaN      NaN
## STE_IAP2_involve         0          0      NaN      NaN
## STE_IAP2_collab          0          0      NaN      NaN
## STE_IAP2_empower         0          0      NaN      NaN
## STE_IAP2_researcher      0          0      NaN      NaN
##
## Residual standard error: 0 on 475 degrees of freedom
## Multiple R-squared:      NaN, Adjusted R-squared:      NaN
## F-statistic:      NaN on 7 and 475 DF, p-value: NA
##
##
## Response ST_youth :
##
## Call:
## lm(formula = ST_youth ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.06409  0.00000  0.00000  0.00000  0.96791
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -1.200e-17  3.886e-03   0.000    1.000
## STE_IAP2_data_gathering  2.825e-02  2.414e-02   1.171    0.242
## STE_IAP2_inform      -3.837e-03  8.144e-02  -0.047    0.962
## STE_IAP2_consult       6.026e-02  1.421e-02   4.241 2.68e-05 ***
## STE_IAP2_involve     -1.096e-03  3.037e-02  -0.036    0.971
## STE_IAP2_collab     -2.708e-17  2.952e-02   0.000    1.000
## STE_IAP2_empower       6.422e-18  3.185e-02   0.000    1.000
## STE_IAP2_researcher    3.837e-03  2.496e-02   0.154    0.878
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.07742 on 475 degrees of freedom
## Multiple R-squared:  0.04494, Adjusted R-squared:  0.03086
## F-statistic: 3.193 on 7 and 475 DF, p-value: 0.002588
##
##
## Response ST_public :
##
## Call:
## lm(formula = ST_public ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3333  0.0000  0.0000  0.0000  0.8818
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)

```

```

## (Intercept)          7.578e-17  8.031e-03  0.000  1.0000
## STE_IAP2_data_gathering 2.553e-01  4.989e-02  5.118  4.49e-07 ***
## STE_IAP2_inform      -3.319e-02  1.683e-01 -0.197  0.8438
## STE_IAP2_consult      1.182e-01  2.937e-02  4.025  6.64e-05 ***
## STE_IAP2_involve      1.334e-01  6.277e-02  2.125  0.0341 *
## STE_IAP2_collab      -2.294e-15  6.101e-02  0.000  1.0000
## STE_IAP2_empower      3.333e-01  6.582e-02  5.064  5.88e-07 ***
## STE_IAP2_researcher    3.319e-02  5.158e-02  0.643  0.5203
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.16 on 475 degrees of freedom
## Multiple R-squared:  0.2137, Adjusted R-squared:  0.2021
## F-statistic: 18.44 on 7 and 475 DF,  p-value: < 2.2e-16
##
##
## Response ST_university :
##
## Call:
## lm(formula = ST_university ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4334  0.0000  0.0000  0.0000  0.8787
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -3.662e-17  9.251e-03   0.000  1.0000
## STE_IAP2_data_gathering 1.383e-01  5.746e-02   2.407  0.0165 *
## STE_IAP2_inform    1.704e-02  1.939e-01   0.088  0.9300
## STE_IAP2_consult    3.955e-01  3.383e-02  11.691 < 2e-16 ***
## STE_IAP2_involve    4.334e-01  7.230e-02   5.995  4.03e-09 ***
## STE_IAP2_collab     4.286e-01  7.028e-02   6.098  2.22e-09 ***
## STE_IAP2_empower    3.333e-01  7.582e-02   4.397  1.36e-05 ***
## STE_IAP2_researcher  -1.704e-02  5.941e-02  -0.287  0.7744
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1843 on 475 degrees of freedom
## Multiple R-squared:  0.3192, Adjusted R-squared:  0.3092
## F-statistic: 31.82 on 7 and 475 DF,  p-value: < 2.2e-16
##
##
## Response ST_experts :
##
## Call:
## lm(formula = ST_experts ~ STE_IAP2_data_gathering + STE_IAP2_inform +
##     STE_IAP2_consult + STE_IAP2_involve + STE_IAP2_collab + STE_IAP2_empower +
##     STE_IAP2_researcher, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max

```

```

## -0.3456  0.0000  0.0000  0.0000  0.9376
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -1.294e-16  8.066e-03   0.000  1.0000
## STE_IAP2_data_gathering  6.241e-02  5.010e-02   1.246  0.2135
## STE_IAP2_inform    -8.012e-02  1.691e-01  -0.474  0.6358
## STE_IAP2_consult     2.654e-01  2.950e-02   8.999 < 2e-16 ***
## STE_IAP2_involve     1.200e-01  6.304e-02   1.903  0.0576 .
## STE_IAP2_collab     2.857e-01  6.128e-02   4.663 4.06e-06 ***
## STE_IAP2_empower     3.555e-17  6.611e-02   0.000  1.0000
## STE_IAP2_researcher    8.012e-02  5.181e-02   1.547  0.1226
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1607 on 475 degrees of freedom
## Multiple R-squared:  0.2069, Adjusted R-squared:  0.1952
## F-statistic: 17.7 on 7 and 475 DF, p-value: < 2.2e-16

```

## Geographic area vs engagment (local)

```
## Response ST_farmers :
##
## Call:
## lm(formula = ST_farmers ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.47059 -0.02133 -0.02133 -0.02133  0.97867
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.02133    0.01021   2.088  0.0373 *
## SC_datagathering 0.44926    0.05191   8.655 < 2e-16 ***
## SC_inform      -0.02133    0.10541  -0.202  0.8398
## SC_perspectives 0.97867    0.21008   4.659 4.14e-06 ***
## SC_plan        0.25140    0.06409   3.923  0.0001 ***
## SC_identify     0.42312    0.05050   8.378 6.14e-16 ***
## SC_envision     0.97867    0.21008   4.659 4.14e-06 ***
## SC_implement    0.37867    0.09439   4.012 7.00e-05 ***
## SC_notdescribed -0.02133    0.10541  -0.202  0.8398
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2098 on 474 degrees of freedom
## Multiple R-squared:  0.3016, Adjusted R-squared:  0.2898
## F-statistic: 25.58 on 8 and 474 DF, p-value: < 2.2e-16
##
##
## Response ST_combined_gov :
##
## Call:
## lm(formula = ST_combined_gov ~ SC_datagathering + SC_inform +
##     SC_perspectives + SC_plan + SC_identify + SC_envision + SC_implement +
##     SC_notdescribed, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.83333 -0.02844 -0.02844 -0.02844  0.97156
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.02844    0.01014   2.803  0.00527 **
## SC_datagathering 0.32451    0.05155   6.295 7.03e-10 ***
## SC_inform      0.97156    0.10469   9.280 < 2e-16 ***
## SC_perspectives 0.97156    0.20865   4.656 4.18e-06 ***
## SC_plan        0.60793    0.06365   9.551 < 2e-16 ***
## SC_identify     0.80490    0.05016  16.047 < 2e-16 ***
## SC_envision     0.97156    0.20865   4.656 4.18e-06 ***
## SC_implement    0.97156    0.09375  10.363 < 2e-16 ***
## SC_notdescribed -0.02844    0.10469  -0.272  0.78604
```



```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2084 on 474 degrees of freedom
## Multiple R-squared:  0.5487, Adjusted R-squared:  0.5411
## F-statistic: 72.03 on 8 and 474 DF,  p-value: < 2.2e-16
##
##
## Response ST_tribal :
##
## Call:
## lm(formula = ST_tribal ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.11765 -0.00474 -0.00474 -0.00474  0.99526
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.004739   0.004333   1.094   0.275
## SC_datagathering  0.112908   0.022018   5.128 4.28e-07 ***
## SC_inform       -0.004739   0.044714  -0.106   0.916
## SC_perspectives -0.004739   0.089113  -0.053   0.958
## SC_plan         -0.004739   0.027184  -0.174   0.862
## SC_identify     -0.004739   0.021422  -0.221   0.825
## SC_envision     -0.004739   0.089113  -0.053   0.958
## SC_implement    -0.004739   0.040041  -0.118   0.906
## SC_notdescribed -0.004739   0.044714  -0.106   0.916
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.08901 on 474 degrees of freedom
## Multiple R-squared:  0.05335, Adjusted R-squared:  0.03738
## F-statistic: 3.339 on 8 and 474 DF,  p-value: 0.000989
##
##
## Response ST_combined_coalition :
##
## Call:
## lm(formula = ST_combined_coalition ~ SC_datagathering + SC_inform +
##     SC_perspectives + SC_plan + SC_identify + SC_envision + SC_implement +
##     SC_notdescribed, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.38889 -0.01422 -0.01422 -0.01422  0.98578
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.014218   0.008621   1.649  0.09975 .
## SC_datagathering  0.044606   0.043808   1.018  0.30910
## SC_inform       0.235782   0.088965   2.650  0.00831 **
```

```

## SC_perspectives    0.985782    0.177302    5.560 4.51e-08 ***
## SC_plan            0.258509    0.054087    4.780 2.35e-06 ***
## SC_identify        0.374671    0.042622    8.791 < 2e-16 ***
## SC_envision        -0.014218    0.177302   -0.080 0.93612
## SC_implement        0.185782    0.079666    2.332 0.02012 *
## SC_notdescribed    -0.014218    0.088965   -0.160 0.87309
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1771 on 474 degrees of freedom
## Multiple R-squared:  0.2246, Adjusted R-squared:  0.2115
## F-statistic: 17.16 on 8 and 474 DF,  p-value: < 2.2e-16
##
##
## Response ST_combined_industry :
##
## Call:
## lm(formula = ST_combined_industry ~ SC_datagathering + SC_inform +
##     SC_perspectives + SC_plan + SC_identify + SC_envision + SC_implement +
##     SC_notdescribed, data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.72222 -0.01659 -0.01659 -0.01659  0.98341
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.016588   0.009805   1.692   0.0914 .
## SC_datagathering 0.218706   0.049827   4.389 1.40e-05 ***
## SC_inform        0.483412   0.101189   4.777 2.37e-06 ***
## SC_perspectives -0.016588   0.201663  -0.082   0.9345
## SC_plan          0.437958   0.061518   7.119 4.05e-12 ***
## SC_identify      0.705635   0.048478  14.556 < 2e-16 ***
## SC_envision      0.983412   0.201663   4.877 1.48e-06 ***
## SC_implement     0.383412   0.090612   4.231 2.79e-05 ***
## SC_notdescribed  0.233412   0.101189   2.307  0.0215 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2014 on 474 degrees of freedom
## Multiple R-squared:  0.4076, Adjusted R-squared:  0.3976
## F-statistic: 40.77 on 8 and 474 DF,  p-value: < 2.2e-16
##
##
## Response ST_migrants :
##
## Call:
## lm(formula = ST_migrants ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
##       0       0       0       0       0

```

```
##
## Coefficients:
##           Estimate Std. Error t value Pr(>|t|)
## (Intercept)           0           0     NaN     NaN
## SC_datagathering       0           0     NaN     NaN
## SC_inform              0           0     NaN     NaN
## SC_perspectives       0           0     NaN     NaN
## SC_plan                0           0     NaN     NaN
## SC_identify            0           0     NaN     NaN
## SC_envision            0           0     NaN     NaN
## SC_implement           0           0     NaN     NaN
## SC_notdescribed       0           0     NaN     NaN
##
## Residual standard error: 0 on 474 degrees of freedom
## Multiple R-squared:  NaN, Adjusted R-squared:  NaN
## F-statistic:  NaN on 8 and 474 DF, p-value: NA
##
##
## Response ST_youth :
##
## Call:
## lm(formula = ST_youth ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.09091 -0.00237 -0.00237 -0.00237  0.99763
##
## Coefficients:
##           Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.002370   0.003775   0.628 0.530532
## SC_datagathering -0.002370   0.019186  -0.124 0.901753
## SC_inform      -0.002370   0.038962  -0.061 0.951528
## SC_perspectives -0.002370   0.077649  -0.031 0.975667
## SC_plan        0.088539   0.023687   3.738 0.000208 ***
## SC_identify     0.053186   0.018666   2.849 0.004572 **
## SC_envision     -0.002370   0.077649  -0.031 0.975667
## SC_implement    -0.002370   0.034890  -0.068 0.945879
## SC_notdescribed -0.002370   0.038962  -0.061 0.951528
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.07756 on 474 degrees of freedom
## Multiple R-squared:  0.04367, Adjusted R-squared:  0.02753
## F-statistic: 2.706 on 8 and 474 DF, p-value: 0.006394
##
##
## Response ST_public :
##
## Call:
## lm(formula = ST_public ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
```

```

##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.40000 -0.01896 -0.01896 -0.01896  0.98104
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.01896    0.00844   2.246  0.02516 *
## SC_datagathering 0.09869    0.04289   2.301  0.02183 *
## SC_inform       0.23104    0.08710   2.653  0.00826 **
## SC_perspectives -0.01896    0.17359  -0.109  0.91309
## SC_plan         0.07195    0.05296   1.359  0.17488
## SC_identify     0.09215    0.04173   2.208  0.02770 *
## SC_envision     -0.01896    0.17359  -0.109  0.91309
## SC_implement    0.38104    0.07800   4.885 1.42e-06 ***
## SC_notdescribed -0.01896    0.08710  -0.218  0.82780
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1734 on 474 degrees of freedom
## Multiple R-squared:  0.07887, Adjusted R-squared:  0.06332
## F-statistic: 5.073 on 8 and 474 DF, p-value: 4.544e-06
##
##
## Response ST_university :
##
## Call:
## lm(formula = ST_university ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.50000 -0.01185 -0.01185 -0.01185  0.98815
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.01185    0.00911   1.301  0.194039
## SC_datagathering 0.16462    0.04630   3.556  0.000414 ***
## SC_inform       0.48815    0.09402   5.192 3.09e-07 ***
## SC_perspectives -0.01185    0.18737  -0.063  0.949605
## SC_plan         0.35179    0.05716   6.155 1.60e-09 ***
## SC_identify     0.43260    0.04504   9.604 < 2e-16 ***
## SC_envision     0.98815    0.18737   5.274 2.03e-07 ***
## SC_implement    0.38815    0.08419   4.610 5.17e-06 ***
## SC_notdescribed -0.01185    0.09402  -0.126  0.899765
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1871 on 474 degrees of freedom
## Multiple R-squared:  0.2997, Adjusted R-squared:  0.2879
## F-statistic: 25.36 on 8 and 474 DF, p-value: < 2.2e-16
##
##

```

```

## Response ST_experts :
##
## Call:
## lm(formula = ST_experts ~ SC_datagathering + SC_inform + SC_perspectives +
##     SC_plan + SC_identify + SC_envision + SC_implement + SC_notdescribed,
##     data = crcdata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.50000 -0.01185 -0.01185 -0.01185  0.98815
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.011848   0.007813   1.516  0.13007
## SC_datagathering 0.105799   0.039704   2.665  0.00797 **
## SC_inform       0.488152   0.080630   6.054 2.87e-09 ***
## SC_perspectives -0.011848   0.160691  -0.074  0.94125
## SC_plan         0.442697   0.049020   9.031 < 2e-16 ***
## SC_identify     0.099263   0.038629   2.570  0.01048 *
## SC_envision     -0.011848   0.160691  -0.074  0.94125
## SC_implement    -0.011848   0.072202  -0.164  0.86972
## SC_notdescribed -0.011848   0.080630  -0.147  0.88324
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1605 on 474 degrees of freedom
## Multiple R-squared:  0.2107, Adjusted R-squared:  0.1974
## F-statistic: 15.82 on 8 and 474 DF, p-value: < 2.2e-16

```