

FAoptions

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FA on Combined Scale (2 Factor Solution): People Centered Development and Nationalist Development

Nuclear Energy: EFA on Combined Scale (2 Factor Solution)

Table 1: 2 factor solution

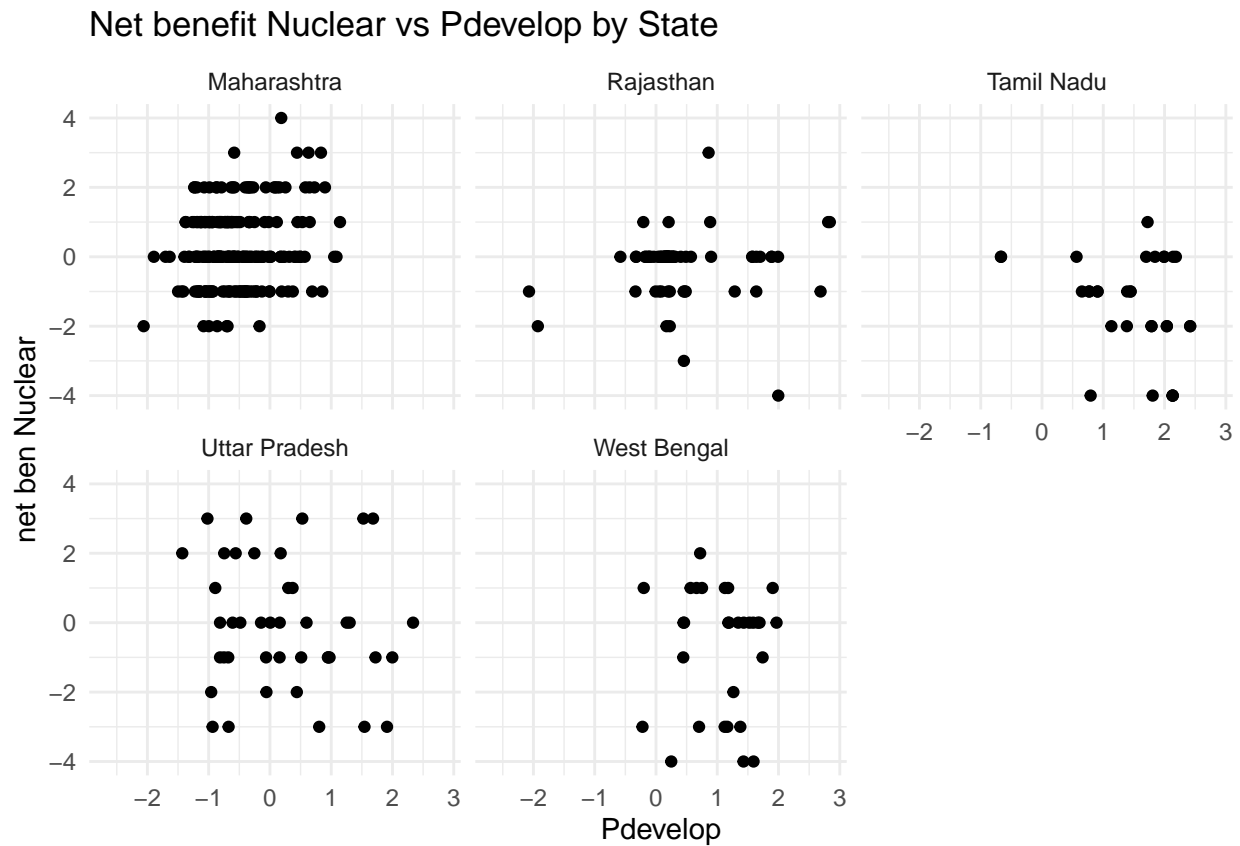
code	Items	Pdevelop	Ndevelop	Communality	Uniqueness	Complexity
Health risk(nuclear)	Nuclear energy poses a great risk to the health of people living around it	0.663		0.447	0.553	1.034
Spoils Natural Beauty(nuclear)	Nuclear energy spoils the natural beauty of the landscape	0.619		0.390	0.610	1.035
Pollution risk(nuclear)	Nuclear energy increases pollution of air/water/land	0.578		0.335	0.665	1.002
Displacement risk(nuclear)	Nuclear energy is leading to displacement of people from their land	0.574		0.371	0.629	1.249
Anti Mechanisation of work	Rapid mechanization of work is taking away jobs from workers in this country	0.54		0.336	0.664	1.297
Pro Regulations	Regardless of ownership, the government should pass strong regulations and implement them	0.534		0.301	0.699	1.116
Anti Large Industries	Large corporations are destroying the local industries in India and benefiting only a handful of people	0.523		0.275	0.725	1.014
Environment over Development	Polluting industries that spoil the environment should be shut down even if it costs people their jobs	0.417		0.175	0.825	1.011
Pro Public ownership	The government should own most large businesses and industries			0.140	0.860	1.218
Pro Globaleconomy	Foreign companies have led to a range of benefits for the Indian people and society			0.227	0.773	1.997
Pro Decentralisation	Local politicians shouldn't have to ask permission from the central government to implement policies			0.102	0.898	1.001
Limits on Wealth	A limit should be put to how much wealth a person can amass			0.153	0.847	2.000
Pro Private ownership	All businesses and industries should be owned privately			0.042	0.958	1.757
Pro Localeconomy	India would be better off if foreign companies didn't come to here			0.017	0.983	1.057

Table 1: 2 factor solution

code	Items	Pdevelop	Ndevelop	Communality	Uniqueness	Complexity
National development(nuclear)	Nuclear energy pushes forward the country's development		0.665	0.464	0.536	1.095
Community pride(nuclear)	I would be proud if my community used nuclear energy		0.622	0.450	0.550	1.321
National pride(nuclear)	Nuclear energy is a mark of pride for our nation		0.597	0.405	0.595	1.266
Local prosperity(nuclear)	Nuclear energy brings economic prosperity to the surrounding regions		0.594	0.363	0.637	1.055
Job opportunities(nuclear)	Nuclear energy will bring jobs to the local community		0.428	0.223	0.777	1.409
Reliance on government(nuclear)	I don't like the idea that I have to rely on the government for electricity from nuclear energy			0.156	0.844	1.005
Pro Large Industries	Large scale industries are required for the development of the country that will benefit everyone			0.170	0.830	1.712
Pro Centralisation	Laws and policies would be implemented more smoothly if more power lay with the central government			0.090	0.910	1.863
Anti Regulations	There is too much red-tape and the government should not interfere with businesses and industries			0.070	0.930	1.704
Development over Environment	Economic growth and creating jobs should be prioritized over environmental protection			0.004	0.996	1.512

Table 2: Eigenvalues and Variance Explained for Combined Scale
(2 Factor Solution)

Property	Pdevelop	Ndevelop
SS loadings	3.264	2.440
Proportion Var	0.136	0.102
Cumulative Var	0.136	0.238
Proportion Explained	0.572	0.428
Cumulative Proportion	0.572	1.000



```
## lavaan 0.6.15 ended normally after 17 iterations
##
##   Estimator           ML
##   Optimization method NLMINB
##   Number of model parameters      23
##
##   Number of observations      540
##
## Model Test User Model:
```

```

##
## Test statistic 236.201
## Degrees of freedom 43
## P-value (Chi-square) 0.000
##
## Model Test Baseline Model:
##
## Test statistic 2291.291
## Degrees of freedom 55
## P-value 0.000
##
## User Model versus Baseline Model:
##
## Comparative Fit Index (CFI) 0.914
## Tucker-Lewis Index (TLI) 0.889
##
## Loglikelihood and Information Criteria:
##
## Loglikelihood user model (H0) -8659.806
## Loglikelihood unrestricted model (H1) -8541.706
##
## Akaike (AIC) 17365.613
## Bayesian (BIC) 17464.319
## Sample-size adjusted Bayesian (SABIC) 17391.309
##
## Root Mean Square Error of Approximation:
##
## RMSEA 0.091
## 90 Percent confidence interval - lower 0.080
## 90 Percent confidence interval - upper 0.103
## P-value H_0: RMSEA <= 0.050 0.000
## P-value H_0: RMSEA >= 0.080 0.950
##
## Standardized Root Mean Square Residual:
##
## SRMR 0.071
##
## Parameter Estimates:
##
## Standard errors Standard
## Information Expected
## Information saturated (h1) model Structured
##
## Latent Variables:
## Estimate Std.Err z-value P(>|z|) Std.lv Std.all
## Pdevelop =~
## HEALTHSOLAR 0.970 0.049 19.888 0.000 0.970 0.779
## BEAUTYSOLAR 0.820 0.052 15.860 0.000 0.820 0.654
## DISPLACESOLAR 0.703 0.049 14.226 0.000 0.703 0.599
## POLLUTESOLAR 1.096 0.050 22.088 0.000 1.096 0.843
## INDUSTRYSMALL -0.319 0.057 -5.571 0.000 -0.319 -0.255
## OWNERREG -0.315 0.051 -6.175 0.000 -0.315 -0.282
## MECHANISATION -0.452 0.052 -8.698 0.000 -0.452 -0.389
## Ndevelop =~

```

```

##      DEVSOLAR      1.055    0.047    22.613    0.000    1.055    0.829
##      PRIDESOLAR    1.065    0.048    22.101    0.000    1.065    0.817
##      NPRIDESOLAR   1.009    0.047    21.327    0.000    1.009    0.797
##      PROSPERSOLAR  1.025    0.047    21.792    0.000    1.025    0.809
##
## Covariances:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      Pdevelop ~~
##      Ndevelop   -0.262    0.047   -5.621    0.000   -0.262   -0.262
##
## Variances:
##      Estimate Std.Err z-value P(>|z|) Std.lv Std.all
##      .HEALTHSOLAR    0.609    0.053   11.491    0.000    0.609    0.393
##      .BEAUTYSOLAR    0.902    0.064   14.185    0.000    0.902    0.573
##      .DISPLACESOLAR  0.882    0.060   14.768    0.000    0.882    0.641
##      .POLLUTESOLAR   0.490    0.055    8.917    0.000    0.490    0.290
##      .INDUSTRYSMALL  1.463    0.090   16.230    0.000    1.463    0.935
##      .OWNERREG       1.147    0.071   16.182    0.000    1.147    0.920
##      .MECHANISATION  1.143    0.072   15.912    0.000    1.143    0.848
##      .DEVSOLAR       0.505    0.043   11.626    0.000    0.505    0.312
##      .PRIDESOLAR     0.567    0.047   12.074    0.000    0.567    0.333
##      .NPRIDESOLAR    0.585    0.046   12.661    0.000    0.585    0.365
##      .PROSPERSOLAR   0.555    0.045   12.321    0.000    0.555    0.346
##      Pdevelop        1.000
##      Ndevelop        1.000

```

Solar Energy : CFA on Combined Scale (2 Factor Solution)

Solar People Centered Development $\alpha = 0.75$

Solar Nationalist Development $\alpha = 0.86$

Table 3: Confirmatory Factor Analysis(CFA) on Solar Energy

Scale	Items	Loadings	Standard Error	zvalue	pvalue	ci.lower	ci.upper	std.lv	std.all
People Centered Development	Solar energy poses a great risk to the health of people living around it	0.970	0.049	19.888	0	0.8744108	1.0655965	0.9700037	0.7792714
People Centered Development	Solar energy spoils the natural beauty of the landscape	0.820	0.052	15.860	0	0.7190998	0.9218976	0.8204987	0.6537278
People Centered Development	Solar energy is leading to displacement of people from their land	0.703	0.049	14.226	0	0.6057287	0.7993080	0.7025183	0.5989088
People Centered Development	Solar energy increases pollution of air/water/land	1.096	0.050	22.088	0	0.9990468	1.1936080	1.0963274	0.8428439
People Centered Development	Large corporations are destroying the local industries in India and benefiting only a handful of people	-0.319	0.057	-5.571	0	-0.4318889	-0.2070914	-0.3194901	-0.2554075
People Centered Development	Regardless of ownership, the government should pass strong regulations and implement them	-0.315	0.051	-6.175	0	-0.4147132	-0.2148716	-0.3147924	-0.2819769
People Centered Development	Rapid mechanization of work is taking away jobs from workers in this country	-0.452	0.052	-8.698	0	-0.5538088	-0.3501230	-0.4519659	-0.3893190
Nationalist Development	Solar energy pushes forward the country's development	1.055	0.047	22.613	0	0.9638459	1.1467835	1.0553147	0.8294606
Nationalist Development	I would be proud if my community used Solar energy	1.065	0.048	22.101	0	0.9708762	1.1598306	1.0653534	0.8166840
Nationalist Development	Solar energy is a mark of pride for our nation	1.009	0.047	21.327	0	0.9161682	1.1016049	1.0088866	0.7969797


```
##
## Call:
## lm(formula = Risky_Solar ~ age + Uppercaste + Male + Hindu +
##      Urban + State + KahanS + KahanH + Pdevelop + Ndevelop, data = sfascale_scores)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.9138 -0.4677 -0.1288  0.2755  3.8143
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    2.737482   0.143017  19.141 < 2e-16 ***
## age           -0.005030   0.035936  -0.140  0.88874
## Uppercaste     -0.033151   0.082097  -0.404  0.68653
## Male          -0.004959   0.090677  -0.055  0.95641
## Hindu         -0.137916   0.095575  -1.443  0.14963
## UrbanUrban    -0.066933   0.091671  -0.730  0.46564
## StateRajasthan -1.351258   0.143198  -9.436 < 2e-16 ***
## StateTamil Nadu -1.314794   0.170603  -7.707 6.73e-14 ***
## StateUttar Pradesh -0.926163   0.158665  -5.837 9.42e-09 ***
## StateWest Bengal -0.969840   0.185254  -5.235 2.41e-07 ***
## KahanS         0.031638   0.069903   0.453  0.65103
## KahanH        -0.196447   0.067244  -2.921  0.00364 **
## Pdevelop       0.031323   0.061275   0.511  0.60943
## Ndevelop       0.012994   0.053525   0.243  0.80828
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8389 on 513 degrees of freedom
## (13 observations deleted due to missingness)
## Multiple R-squared:  0.4297, Adjusted R-squared:  0.4152
## F-statistic: 29.73 on 13 and 513 DF, p-value: < 2.2e-16
```

Coal : CFA on Combined Scale 2 Factor Solution (Pdevelop and Ndevelop)

Coal People Centered Development $\text{Alpha} = 0.78$

Coal Nationalist Development $\text{Alpha} = 0.6$

Table 4: Confirmatory Factor Analysis(CFA) on Coal

Scale	Items	Loadings	Standard Error	zvalue	pvalue	ci.lower	ci.upper	std.lv	std.all
People Centered Development	Coal powered plants poses a great risk to the health of people living around it	0.722	0.050	14.378	0	0.6231797	0.8199012	0.7215405	0.6589018
People Centered Development	Coal powered plants spoils the natural beauty of the landscape	0.717	0.048	14.839	0	0.6227149	0.8122502	0.7174825	0.6758232
People Centered Development	Coal powered plants is leading to displacement of people from their land	0.626	0.055	11.301	0	0.5172562	0.7343179	0.6257871	0.5394144
People Centered Development	Coal powered plants increases pollution of air/water/land	0.630	0.041	15.260	0	0.5488005	0.7105443	0.6296724	0.6910990
People Centered Development	Large corporations are destroying the local industries in India and benefiting only a handful of people	0.601	0.057	10.462	0	0.4883282	0.7134684	0.6008983	0.5045829
People Centered Development	Regardless of ownership, the government should pass strong regulations and implement them	0.488	0.055	8.904	0	0.3808612	0.5958528	0.4883570	0.4372022
People Centered Development	Rapid mechanization of work is taking away jobs from workers in this country	0.658	0.056	11.805	0	0.5489483	0.7675273	0.6582378	0.5598383
Nationalist Development	Coal powered plants pushes forward the country's development	0.629	0.059	10.700	0	0.5137870	0.7442109	0.6289990	0.6259019
Nationalist Development	Coal powered plants brings economic prosperity to the surrounding regions	0.596	0.058	10.338	0	0.4830019	0.7090010	0.5960014	0.5996861
Nationalist Development	I would be proud if my community used Coal powered plants	0.445	0.063	7.096	0	0.3220686	0.5678796	0.4449741	0.4027845

Linear Models: Perceived risk X Pdevelop and Ndevelop

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Table 5: Perceived Risk X Pdevelop and Ndevelop

	<i>Dependent variable:</i>		
	Risky_Nuclear (1)	Risky_Solar (2)	Risky_Coal (3)
age	0.037 (0.051)	-0.005 (0.036)	0.133*** (0.046)
Uppercaste	-0.035 (0.106)	-0.033 (0.082)	-0.060 (0.090)
Male	-0.085 (0.116)	-0.005 (0.091)	0.019 (0.103)
Hindu	0.024 (0.117)	-0.138 (0.096)	0.155 (0.106)
UrbanUrban	0.023 (0.111)	-0.067 (0.092)	0.051 (0.102)
StateRajasthan	0.190 (0.181)	-1.351*** (0.143)	-0.349** (0.142)
StateTamil Nadu	1.293*** (0.239)	-1.315*** (0.171)	-1.387*** (0.226)
StateUttar Pradesh	-0.056 (0.193)	-0.926*** (0.159)	-1.243*** (0.171)
StateWest Bengal	0.972*** (0.226)	-0.970*** (0.185)	-0.124 (0.198)
KahanS	0.108 (0.103)	0.032 (0.070)	0.044 (0.085)
KahanH	0.003 (0.095)	-0.196*** (0.067)	0.148* (0.086)
Pdevelop	0.145* (0.075)	0.031 (0.061)	0.412*** (0.079)
Ndevelop	0.236*** (0.061)	0.013 (0.054)	0.031 (0.067)
Constant	3.028*** (0.172)	2.737*** (0.143)	3.069*** (0.157)
Observations	405	527	457
R ²	0.289	0.430	0.287
Adjusted R ²	0.266	0.415	0.266
Residual Std. Error	0.925 (df = 391)	0.839 (df = 513)	0.877 (df = 443)
F Statistic	12.248*** (df = 13; 391)	29.727*** (df = 13; 513)	13.728*** (df = 13; 443)
Note: *p<0.1; **p<0.05; ***p<0.01			

Linear Models: Perceived Benefit X Pdevelop and Ndevelop

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Table 6: Perceived Benefit X Pdevelop and Ndevelop

	<i>Dependent variable:</i>		
	Ben_Nuclear	Ben_Solar	Ben_Coal
	(1)	(2)	(3)
Uppercaste	−0.178* (0.102)	−0.119 (0.080)	−0.236*** (0.091)
Male	0.036 (0.112)	0.0002 (0.088)	0.037 (0.103)
Hindu	0.329*** (0.113)	0.169* (0.093)	0.039 (0.107)
UrbanUrban	0.093 (0.107)	−0.081 (0.089)	0.169 (0.103)
age	−0.073 (0.050)	−0.023 (0.034)	0.029 (0.046)
StateRajasthan	−0.573*** (0.175)	0.495*** (0.147)	−0.327** (0.142)
StateTamil Nadu	−0.406* (0.235)	0.564*** (0.177)	−0.316 (0.238)
StateUttar Pradesh	−0.516*** (0.187)	0.077 (0.159)	−0.531*** (0.173)
StateWest Bengal	−0.095 (0.222)	0.943*** (0.184)	−0.169 (0.198)
KahanS	−0.057 (0.103)	0.014 (0.069)	−0.017 (0.086)
KahanH	0.231** (0.093)	0.140** (0.070)	0.141 (0.087)
Pdevelop	0.191*** (0.073)	0.194*** (0.048)	0.265*** (0.066)
Ndevelop	0.292*** (0.060)	−0.018 (0.068)	0.213*** (0.049)
Constant	3.287*** (0.166)	3.426*** (0.139)	3.205*** (0.157)
Observations	407	535	455
R ²	0.193	0.254	0.171
Adjusted R ²	0.166	0.235	0.147
Residual Std. Error	0.898 (df = 393)	0.815 (df = 521)	0.880 (df = 441)
F Statistic	7.210*** (df = 13; 393)	13.635*** (df = 13; 521)	7.020*** (df = 13; 441)

Note:

*p<0.1; **p<0.05; ***p<0.01

Linear Models: Acceptance (Risk - Benefit) X Pdevelop & Ndevelop

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Table 7: Acceptance (Risk - Benefit) X Pdevelop and Ndevelop

	<i>Dependent variable:</i>		
	Nuclear (1)	Solar (2)	Coal (3)
age	-0.108 (0.069)	-0.016 (0.053)	-0.148** (0.062)
Uppercaste	-0.153 (0.143)	-0.091 (0.121)	-0.162 (0.120)
Male	0.146 (0.157)	0.015 (0.133)	0.013 (0.137)
Hindu	0.324** (0.158)	0.310** (0.141)	-0.194 (0.141)
UrbanUrban	0.093 (0.150)	0.040 (0.135)	0.079 (0.136)
StateRajasthan	-0.771*** (0.244)	1.830*** (0.213)	0.143 (0.188)
StateTamil Nadu	-1.747*** (0.327)	1.820*** (0.251)	1.177*** (0.302)
StateUttar Pradesh	-0.462* (0.261)	0.990*** (0.235)	0.791*** (0.228)
StateWest Bengal	-1.082*** (0.309)	1.860*** (0.274)	-0.055 (0.261)
KahanS	-0.193 (0.139)	-0.044 (0.103)	-0.042 (0.113)
KahanH	0.257** (0.128)	0.340*** (0.099)	0.031 (0.114)
Pdevelop	0.023 (0.103)	-0.039 (0.090)	-0.374*** (0.106)
Ndevelop	0.066 (0.084)	0.193** (0.079)	0.367*** (0.089)
Constant	0.220 (0.232)	0.675*** (0.211)	0.260 (0.209)
Observations	401	524	453
R ²	0.164	0.471	0.099
Adjusted R ²	0.136	0.458	0.072
Residual Std. Error	1.246 (df = 387)	1.230 (df = 510)	1.159 (df = 439)
F Statistic	5.825*** (df = 13; 387)	34.992*** (df = 13; 510)	3.713*** (df = 13; 439)

Note:

*p<0.1; **p<0.05; ***p<0.01

FA on Separate scales: Scale 1:Eco-political values of the perceiver

4 factor solution (Characteristics of the perceiver)

Cronbach's alpha values: Regulated Industrialisation = 0.59, localisation = 0.52 , Free market = 0.57, Private Development = 0.58

Table 8: 4 factor solution same for all technologies

code	Items	regulated industri- aliza- tion	localisation	free market	private develop- ment	Communality	Uniqueness	Complexity
Pro Regulations	Regardless of ownership, the government should pass strong regulations and implement them	0.54				0.366	0.634	1.520
Anti Mechanisation of work	Rapid mechanization of work is taking away jobs from workers in this country	0.506				0.330	0.670	1.585
Limits on Wealth	A limit should be put to how much wealth a person can amass	0.483				0.304	0.696	1.638
Anti Large Industries	Large corporations are destroying the local industries in India and benefiting only a handful of people		0.534			0.409	0.591	1.780
Pro Localeconomy	India would be better off if foreign companies didn't come to here		0.524			0.287	0.713	1.090
Pro Decentralisation	Local politicians shouldn't have to ask permission from the central government to implement policies					0.134	0.866	2.021
Pro Centralisation	Laws and policies would be implemented more smoothly if more power lay with the central government			0.488		0.280	0.720	1.360
Pro Globaleconomy	Foreign companies have led to a range of benefits for the Indian people and society			0.478		0.298	0.702	1.598
Anti Regulations	There is too much red-tape and the government should not interfere with businesses and industries			0.473		0.399	0.601	2.220
Pro Large Industries	Large scale industries are required for the development of the country that will benefit everyone			0.432		0.302	0.698	1.902
Development over Environment	Economic growth and creating jobs should be prioritized over environmental protection				0.536	0.290	0.710	1.014

Table 8: 4 factor solution same for all technologies

code	Items	regulated industri- aliza- tion	localisation	free market	private develop- ment	Communality	Uniqueness	Complexity
Pro Private ownership	All businesses and industries should be owned privately				0.508	0.274	0.726	1.121
Environment over Development	Polluting industries that spoil the environment should be shut down even if it costs people their jobs				-0.464	0.428	0.572	2.548
Pro Public ownership	The government should own most large businesses and industries				-0.43	0.433	0.567	3.201

Table 9: Eigenvalues and Variance Explained for Rotated Factor Solution

Property	MR1	MR3	MR4	MR2
SS loadings	1.215	1.191	1.091	1.037
Proportion Var	0.087	0.085	0.078	0.074
Cumulative Var	0.087	0.172	0.250	0.324
Proportion Explained	0.268	0.263	0.241	0.229
Cumulative Proportion	0.268	0.531	0.771	1.000

Linear Models: Perceived Risk X 4 Factor Solution(separate scale)

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Table 10: Perceived Risk X 4 Factor Solution(separate scale)

	<i>Dependent variable:</i>		
	Risky_Nuclear (1)	Risky_Solar (2)	Risky_Coal (3)
Uppercaste	−0.116 (0.102)	0.001 (0.072)	−0.070 (0.088)
Male	0.107 (0.108)	−0.023 (0.078)	0.001 (0.095)
Hindu	−0.009 (0.120)	−0.121 (0.088)	0.196* (0.104)
UrbanUrban	0.197* (0.105)	−0.064 (0.080)	0.174* (0.095)
age	−0.155*** (0.043)	−0.023 (0.031)	0.003 (0.038)
StateRajasthan	0.474*** (0.166)	−1.602*** (0.116)	0.081 (0.139)
StateTamil Nadu	−0.251 (0.189)	−1.721*** (0.138)	−1.434*** (0.169)
StateUttar Pradesh	0.111 (0.188)	−1.248*** (0.137)	−0.763*** (0.163)
StateWest Bengal	1.444*** (0.199)	−1.309*** (0.151)	0.372** (0.182)
regulateindustry	0.071 (0.055)	0.080** (0.041)	0.210*** (0.049)
localisation	0.101* (0.052)	0.069* (0.038)	0.139*** (0.046)
freemarket	−0.085* (0.047)	0.049 (0.036)	−0.093** (0.043)
pvtdevelopment	−0.095 (0.060)	0.010 (0.042)	−0.002 (0.051)
Constant	3.282*** (0.167)	2.990*** (0.125)	3.163*** (0.148)
Observations	609	686	644
R ²	0.157	0.434	0.242
Adjusted R ²	0.139	0.423	0.226
Residual Std. Error	1.088 (df = 595)	0.838 (df = 672)	0.969 (df = 630)
F Statistic	8.539*** (df = 13; 595)	39.620*** (df = 13; 672)	15.450*** (df = 13; 630)

Note: *p<0.1; **p<0.05; ***p<0.01

Linear Models: : Perceived Risk X 4 Factor Solution (separate scale)

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Table 11: Perceived Risk X 4 Factor Solution (separate scale)

	<i>Dependent variable:</i>		
	Ben_Nuclear (1)	Ben_Solar (2)	Ben_Coal (3)
Uppercaste	-0.155* (0.085)	-0.084 (0.072)	-0.263*** (0.081)
Male	-0.00003 (0.089)	-0.022 (0.077)	0.129 (0.090)
Hindu	0.378*** (0.100)	0.172** (0.087)	0.110 (0.097)
UrbanUrban	0.079 (0.089)	0.082 (0.078)	0.104 (0.091)
age	0.009 (0.035)	-0.026 (0.030)	0.044 (0.038)
StateRajasthan	-0.516*** (0.139)	0.792*** (0.115)	-0.265** (0.130)
StateTamil Nadu	0.042 (0.157)	0.398*** (0.137)	-0.064 (0.162)
StateUttar Pradesh	-0.775*** (0.160)	0.251* (0.137)	-0.772*** (0.155)
StateWest Bengal	-0.102 (0.171)	1.111*** (0.150)	-0.256 (0.173)
regulateindustry	0.276*** (0.047)	0.093** (0.040)	0.283*** (0.047)
localisation	0.184*** (0.042)	0.029 (0.037)	0.179*** (0.044)
freemarket	0.358*** (0.039)	-0.041 (0.034)	0.186*** (0.040)
pvtdevelopment	0.080* (0.049)	0.064 (0.042)	0.094* (0.049)
Constant	3.265*** (0.139)	3.298*** (0.122)	3.249*** (0.140)
Observations	626	701	625
R ²	0.253	0.187	0.165
Adjusted R ²	0.237	0.171	0.147
Residual Std. Error	0.915 (df = 612)	0.833 (df = 687)	0.901 (df = 611)
F Statistic	15.953*** (df = 13; 612)	12.140*** (df = 13; 687)	9.291*** (df = 13; 611)

Note: *p<0.1; **p<0.05; ***p<0.01

Linear Models: Acceptance(Risk-Benefit) X 4 Factor Solution (separate scale)

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Table 12: Acceptance(Risk-Benefit) X 4 Factor Solution (separate scale)

	<i>Dependent variable:</i>		
	Nuclear (1)	Solar (2)	Coal (3)
age	0.134** (0.058)	-0.010 (0.045)	0.007 (0.055)
Uppercaste	-0.072 (0.136)	-0.102 (0.105)	-0.181 (0.116)
Male	-0.066 (0.145)	0.005 (0.114)	0.115 (0.128)
Hindu	0.393** (0.159)	0.301** (0.129)	-0.138 (0.138)
UrbanUrban	-0.153 (0.142)	0.151 (0.117)	-0.063 (0.129)
StateRajasthan	-0.971*** (0.222)	2.415*** (0.170)	-0.243 (0.185)
StateTamil Nadu	0.225 (0.255)	2.211*** (0.203)	1.425*** (0.235)
StateUttar Pradesh	-0.926*** (0.254)	1.514*** (0.201)	0.046 (0.221)
StateWest Bengal	-1.537*** (0.270)	2.428*** (0.221)	-0.529** (0.245)
regulateindustry	0.203*** (0.075)	0.022 (0.060)	0.052 (0.066)
localisation	0.071 (0.069)	-0.043 (0.055)	0.021 (0.062)
freemarket	0.402*** (0.064)	-0.109** (0.052)	0.219*** (0.059)
pvtdevelopment	0.167** (0.080)	0.057 (0.062)	0.114 (0.070)
Constant	0.041 (0.224)	0.311* (0.183)	0.141 (0.199)
Observations	588	678	606
R ²	0.178	0.440	0.165
Adjusted R ²	0.159	0.429	0.146
Residual Std. Error	1.433 (df = 574)	1.219 (df = 664)	1.265 (df = 592)
F Statistic	9.552*** (df = 13; 574)	40.206*** (df = 13; 664)	8.968*** (df = 13; 592)

Note:

*p<0.1; **p<0.05; ***p<0.01

2 factor solution (Characteristics of the perceiver)

Table 13: 4 factor solution same for all technologies

code	Items	MR1	MR2	Communality	Uniqueness	Complexity
Anti Mechanisation of work	Rapid mechanization of work is taking away jobs from workers in this country	0.521		0.273	0.727	1.008
Pro Regulations	Regardless of ownership, the government should pass strong regulations and implement them	0.494		0.277	0.723	1.265
Anti Large Industries	Large corporations are destroying the local industries in India and benefiting only a handful of people	0.487		0.246	0.754	1.074
Limits on Wealth	A limit should be put to how much wealth a person can amass	0.477		0.249	0.751	1.185
Pro Large Industries	Large scale industries are required for the development of the country that will benefit everyone	0.452		0.205	0.795	1.007
Pro Centralisation	Laws and policies would be implemented more smoothly if more power lay with the central government	0.445		0.216	0.784	1.179
Pro Globaleconomy	Foreign companies have led to a range of benefits for the Indian people and society	0.435		0.191	0.809	1.018
Anti Regulations	There is too much red-tape and the government should not interfere with businesses and industries	0.423		0.193	0.807	1.157
Pro Decentralisation	Local politicians shouldn't have to ask permission from the central government to implement policies			0.113	0.887	1.658
Pro Localeconomy	India would be better off if foreign companies didn't come to here			0.108	0.892	1.720
Environment over Development	Polluting industries that spoil the environment should be shut down even if it costs people their jobs		0.522	0.408	0.592	1.797
Development over Environment	Economic growth and creating jobs should be prioritized over environmental protection		-0.509	0.262	0.738	1.022
Pro Public ownership	The government should own most large businesses and industries	0.445	0.488	0.436	0.564	1.983
Pro Private ownership	All businesses and industries should be owned privately		-0.481	0.244	0.756	1.108

Table 13: 4 factor solution same for all technologies

code	Items	MR1	MR2	Communality	Uniqueness	Complexity
------	-------	-----	-----	-------------	------------	------------

Linear Models: Perceived Risk X 2 factor solution (separate scale)

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Table 14: Perceived Risk X 2 factor solution (separate scale)

	<i>Dependent variable:</i>		
	Risky_Nuclear (1)	Risky_Solar (2)	Risky_Coal (3)
Uppercaste	−0.114 (0.102)	0.002 (0.072)	−0.054 (0.090)
Male	0.101 (0.109)	−0.023 (0.078)	0.003 (0.096)
Hindu	−0.001 (0.120)	−0.119 (0.088)	0.207* (0.106)
UrbanUrban	0.197* (0.106)	−0.064 (0.080)	0.173* (0.097)
age	−0.163*** (0.042)	−0.025 (0.030)	−0.014 (0.038)
StateRajasthan	0.444*** (0.159)	−1.618*** (0.109)	0.061 (0.134)
StateTamil Nadu	−0.183 (0.184)	−1.715*** (0.135)	−1.286*** (0.168)
StateUttar Pradesh	0.125 (0.187)	−1.255*** (0.136)	−0.729*** (0.166)
StateWest Bengal	1.478*** (0.192)	−1.309*** (0.145)	0.486*** (0.179)
MR1	0.024 (0.056)	0.117*** (0.041)	0.122** (0.050)
MR2	0.128** (0.064)	0.005 (0.045)	0.044 (0.055)
Constant	3.289*** (0.167)	2.993*** (0.124)	3.149*** (0.151)
Observations	609	686	644
R ²	0.149	0.434	0.207
Adjusted R ²	0.134	0.425	0.193
Residual Std. Error	1.091 (df = 597)	0.837 (df = 674)	0.989 (df = 632)
F Statistic	9.540*** (df = 11; 597)	46.935*** (df = 11; 674)	14.992*** (df = 11; 632)
<i>Note:</i>		*p<0.1; **p<0.05; ***p<0.01	

Linear Models: Perceived Benefit X 2 FA solution (separate scales)

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Table 15: Perceived Benefit X 2 FA solution (separate scales)

	<i>Dependent variable:</i>		
	Ben_Nuclear	Ben_Solar	Ben_Coal
	(1)	(2)	(3)
Uppercaste	-0.162* (0.085)	-0.078 (0.072)	-0.258*** (0.081)
Male	0.007 (0.089)	-0.022 (0.077)	0.127 (0.090)
Hindu	0.376*** (0.100)	0.174** (0.088)	0.118 (0.097)
UrbanUrban	0.077 (0.089)	0.079 (0.079)	0.095 (0.091)
age	0.013 (0.034)	-0.037 (0.030)	0.040 (0.037)
StateRajasthan	-0.499*** (0.133)	0.797*** (0.110)	-0.266** (0.124)
StateTamil Nadu	0.018 (0.152)	0.475*** (0.134)	0.031 (0.156)
StateUttar Pradesh	-0.783*** (0.159)	0.275** (0.137)	-0.761*** (0.155)
StateWest Bengal	-0.116 (0.164)	1.178*** (0.146)	-0.201 (0.167)
MR1	0.486*** (0.047)	0.041 (0.041)	0.373*** (0.047)
MR2	-0.059 (0.052)	-0.052 (0.045)	-0.067 (0.052)
Constant	3.258*** (0.140)	3.295*** (0.123)	3.236*** (0.140)
Observations	626	701	625
R ²	0.247	0.174	0.157
Adjusted R ²	0.233	0.161	0.142
Residual Std. Error	0.918 (df = 614)	0.838 (df = 689)	0.904 (df = 613)
F Statistic	18.290*** (df = 11; 614)	13.194*** (df = 11; 689)	10.380*** (df = 11; 613)
<i>Note:</i>			
*p<0.1; **p<0.05; ***p<0.01			

```
## Factor Analysis using method = minres
## Call: fa(r = Nuclear2, nfactors = 2, rotate = "varimax")
## Standardized loadings (pattern matrix) based upon correlation matrix
##
```

	item	MR1	MR2	h2	u2	com
## Health risk(nuclear)	3	0.86		0.74	0.26	1.0
## Pollution risk(nuclear)	2	0.73		0.54	0.46	1.0
## Spoils Natural Beauty(nuclear)	4	0.69		0.48	0.52	1.0
## Displacement risk(nuclear)	1	0.51		0.28	0.72	1.1
## National pride(nuclear)	6		0.65	0.43	0.57	1.0
## National development(nuclear)	7		0.64	0.44	0.56	1.2
## Local prosperity(nuclear)	8		0.63	0.42	0.58	1.1


```

## Community pride(nuclear)          5          0.59 0.38 0.62 1.2
##
##
##          MR1  MR2
## SS loadings          2.11 1.61
## Proportion Var          0.26 0.20
## Cumulative Var          0.26 0.46
## Proportion Explained  0.57 0.43
## Cumulative Proportion 0.57 1.00
##
## Mean item complexity = 1.1
## Test of the hypothesis that 2 factors are sufficient.
##
## df null model = 28 with the objective function = 2.26 with Chi Square = 1045.26
## df of the model are 13 and the objective function was 0.16
##
## The root mean square of the residuals (RMSR) is 0.04
## The df corrected root mean square of the residuals is 0.06
##
## The harmonic n.obs is 467 with the empirical chi square 48.57 with prob < 5.2e-06
## The total n.obs was 467 with Likelihood Chi Square = 76 with prob < 6.2e-11
##
## Tucker Lewis Index of factoring reliability = 0.866
## RMSEA index = 0.102 and the 90 % confidence intervals are 0.08 0.125
## BIC = -3.91
## Fit based upon off diagonal values = 0.98
## Measures of factor score adequacy
##
##          MR1  MR2
## Correlation of (regression) scores with factors 0.92 0.86
## Multiple R square of scores with factors          0.84 0.74
## Minimum correlation of possible factor scores    0.69 0.47

```

FA on Separate scale: Scale 2: Characteristics of the Technology(2 factor solution)

Nuclear Energy : positive (alpha = 0.73) and negative (alpha = 0.79) characteristics (2 factor solution)

Table 16: Separate scale 2 factor solution: Nuclear energy

code	Items	Social CostsPride	Communality	Uniqueness	Complexity
Health risk(nuclear)	Nuclear energy poses a great risk to the health of people living around it	0.859	0.738	0.262	1.000
Pollution risk(nuclear)	Nuclear energy increases pollution of air/water/land	0.73	0.541	0.459	1.031
Spoils Natural Beauty(nuclear)	Nuclear energy spoils the natural beauty of the landscape	0.692	0.479	0.521	1.002
Displacement risk(nuclear)	Nuclear energy is leading to displacement of people from their land	0.51	0.275	0.725	1.115
National pride(nuclear)	Nuclear energy is a mark of pride for our nation		0.654	0.432	0.568
National development(nuclear)	Nuclear energy pushes forward the country's development		0.638	0.441	0.559
Local prosperity(nuclear)	Nuclear energy brings economic prosperity to the surrounding regions		0.63	0.422	0.578
Community pride(nuclear)	I would be proud if my community used nuclear energy		0.593	0.383	0.617

Table 17: Eigenvalues and Variance Explained for Rotated Factor Solution

Property	Social_CostsPride
SS loadings	2.1061.606
Proportion Var	0.2630.201
Cumulative Var	0.2630.464
Proportion Explained	0.5670.433
Cumulative Proportion	0.5671.000

```
##
## Call:
## lm(formula = Risky_Nuclear ~ Uppercaste + Male + Hindu + Urban +
##      age + State + socialcosts + pride, data = Nuclearwscores2)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.68987 -0.68716  0.06119  0.60552  2.48833
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    2.95539    0.15836   18.663 < 2e-16 ***
## Uppercaste     -0.01360    0.10074   -0.135  0.8926
## Male           -0.13078    0.10872   -1.203  0.2296
## Hindu          -0.09259    0.10803   -0.857  0.3919
## UrbanUrban      0.07682    0.10463    0.734  0.4632
## age             0.08810    0.04837    1.821  0.0692 .
## StateRajasthan  0.40252    0.16905    2.381  0.0177 *
## StateTamil Nadu 1.45348    0.20709    7.019 8.55e-12 ***
## StateUttar Pradesh 0.23762    0.17026    1.396  0.1635
## StateWest Bengal 1.32747    0.17523    7.576 2.14e-13 ***
## socialcosts     0.10745    0.05585    1.924  0.0550 .
## pride           0.22645    0.05087    4.452 1.08e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9341 on 439 degrees of freedom
## (16 observations deleted due to missingness)
## Multiple R-squared:  0.3015, Adjusted R-squared:  0.284
## F-statistic: 17.23 on 11 and 439 DF,  p-value: < 2.2e-16
##
## Call:
## lm(formula = Ben_Nuclear ~ Uppercaste + Male + Hindu + Urban +
##      age + State + socialcosts + pride, data = Nuclearwscores2)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.56084 -0.56917 -0.06033  0.71307  2.37365
##
## Coefficients:
```

```

##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)      3.17637    0.16851  18.849 < 2e-16 ***
## Uppercaste       -0.28702    0.10762  -2.667  0.00793 **
## Male              0.05770    0.11622   0.496  0.61979
## Hindu             0.30107    0.11499   2.618  0.00914 **
## UrbanUrban        0.20845    0.11124   1.874  0.06160 .
## age              -0.08402    0.05161  -1.628  0.10425
## StateRajasthan   -0.20233    0.18027  -1.122  0.26234
## StateTamil Nadu  -0.28362    0.21989  -1.290  0.19779
## StateUttar Pradesh -0.21817    0.18224  -1.197  0.23190
## StateWest Bengal  0.20319    0.18827   1.079  0.28106
## socialcosts       0.11652    0.05988   1.946  0.05230 .
## pride             0.29774    0.05516   5.398  1.1e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.001 on 443 degrees of freedom
## (12 observations deleted due to missingness)
## Multiple R-squared:  0.1262, Adjusted R-squared:  0.1045
## F-statistic: 5.814 on 11 and 443 DF, p-value: 8.02e-09
##
## Call:
## lm(formula = Risky_Nuclear ~ Uppercaste + Male + Hindu + Urban +
##     age + State + socialcosts + pride, data = Nuclearwscores3)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.68987 -0.68716  0.06119  0.60552  2.48833
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)      2.95539    0.15836  18.663 < 2e-16 ***
## Uppercaste       -0.01360    0.10074  -0.135  0.8926
## Male             -0.13078    0.10872  -1.203  0.2296
## Hindu            -0.09259    0.10803  -0.857  0.3919
## UrbanUrban        0.07682    0.10463   0.734  0.4632
## age              0.08810    0.04837   1.821  0.0692 .
## StateRajasthan    0.40252    0.16905   2.381  0.0177 *
## StateTamil Nadu   1.45348    0.20709   7.019 8.55e-12 ***
## StateUttar Pradesh 0.23762    0.17026   1.396  0.1635
## StateWest Bengal  1.32747    0.17523   7.576 2.14e-13 ***
## socialcosts       0.10745    0.05585   1.924  0.0550 .
## pride            0.22645    0.05087   4.452 1.08e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9341 on 439 degrees of freedom
## Multiple R-squared:  0.3015, Adjusted R-squared:  0.284
## F-statistic: 17.23 on 11 and 439 DF, p-value: < 2.2e-16

```

Solar Energy : positive ($\alpha = 0.85$) and negative ($\alpha = 0.81$) characteristics (2 factor solution)

```
## Factor Analysis using method = minres
## Call: fa(r = Solar2, nfactors = 2, rotate = "varimax")
## Standardized loadings (pattern matrix) based upon correlation matrix
##
```

	item	MR1	MR2	h2	u2	com
## National development(Solar)	7	0.83		0.70	0.30	1.0
## National pride(Solar)	6	0.82		0.67	0.33	1.0
## Local prosperity(Solar)	8	0.80		0.65	0.35	1.0
## Community pride(Solar)	5	0.80		0.67	0.33	1.1
## Health risk(Solar)	3		0.82	0.68	0.32	1.0
## Pollution risk(Solar)	2		0.81	0.68	0.32	1.1
## Spoils Natural Beauty(Solar)	4		0.65	0.42	0.58	1.0
## Displacement risk(Solar)	1		0.59	0.35	0.65	1.0

```
##
##
```

	MR1	MR2
## SS loadings	2.69	2.13
## Proportion Var	0.34	0.27
## Cumulative Var	0.34	0.60
## Proportion Explained	0.56	0.44
## Cumulative Proportion	0.56	1.00

```
##
## Mean item complexity = 1
## Test of the hypothesis that 2 factors are sufficient.
##
## df null model = 28 with the objective function = 3.73 with Chi Square = 2283.32
## df of the model are 13 and the objective function was 0.07
##
## The root mean square of the residuals (RMSR) is 0.02
## The df corrected root mean square of the residuals is 0.03
##
## The harmonic n.obs is 617 with the empirical chi square 12.5 with prob < 0.49
## The total n.obs was 617 with Likelihood Chi Square = 45.58 with prob < 1.7e-05
##
## Tucker Lewis Index of factoring reliability = 0.969
## RMSEA index = 0.064 and the 90 % confidence intervals are 0.044 0.084
## BIC = -37.94
## Fit based upon off diagonal values = 1
## Measures of factor score adequacy
```

```
##
## Correlation of (regression) scores with factors    MR1 MR2
## Multiple R square of scores with factors          0.94 0.92
## Minimum correlation of possible factor scores      0.89 0.84
## Minimum correlation of possible factor scores      0.77 0.68
```

Table 18: Separate scale 2 factor solution: Solar energy

code	Items	Pride	Social Costs	Communality	Uniqueness	Complexity
National development(Solar)	Solar energy pushes forward the country's development	0.83		0.698	0.302	1.025
National pride(Solar)	Solar energy is a mark of pride for our nation	0.818		0.669	0.331	1.000
Local prosperity(Solar)	Solar energy brings economic prosperity to the surrounding regions	0.804		0.648	0.352	1.005
Community pride(Solar)	I would be proud if my community used solar energy	0.801		0.667	0.333	1.080
Health risk(Solar)	Solar energy poses a great risk to the health of people living around it		0.823	0.684	0.316	1.021
Pollution risk(Solar)	Solar energy increases pollution of air/water/land		0.806	0.680	0.320	1.094
Spoils Natural Beauty(Solar)	Solar energy spoils the natural beauty of the landscape		0.647	0.422	0.578	1.017
Displacement risk(Solar)	Solar energy is leading to displacement of people from their land		0.59	0.348	0.652	1.001

Table 19: Eigenvalues and Variance Explained for Rotated Factor Solution

Property	PrideSocial_Costs	
SS loadings	2.687	2.129
Proportion Var	0.336	0.266
Cumulative Var	0.336	0.602
Proportion Explained	0.558	0.442
Cumulative Proportion	0.558	1.000

```
##
## Call:
## lm(formula = Risky_Solar ~ Uppercaste + Male + Hindu + Urban +
##     age + State + pride + socialcosts, data = Solarwscores2)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.8949 -0.5353 -0.1545  0.3593  3.7745
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    2.84619    0.13333   21.347 < 2e-16 ***
## Uppercaste     -0.08132    0.07925   -1.026  0.305
## Male           -0.04120    0.08710   -0.473  0.636
## Hindu          -0.11529    0.09031   -1.277  0.202
## UrbanUrban     -0.11661    0.08707   -1.339  0.181
## age            0.01209    0.03448    0.351  0.726
## StateRajasthan -1.44844    0.13282  -10.905 < 2e-16 ***
## StateTamil Nadu -1.45727    0.15266   -9.546 < 2e-16 ***
## StateUttar Pradesh -1.16088    0.14359   -8.085 3.52e-15 ***
## StateWest Bengal -1.05363    0.14252   -7.393 4.93e-13 ***
## pride           0.03100    0.04511    0.687  0.492
## socialcosts     0.08313    0.04580    1.815  0.070 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.873 on 592 degrees of freedom
## (13 observations deleted due to missingness)
## Multiple R-squared:  0.3933, Adjusted R-squared:  0.382
## F-statistic: 34.89 on 11 and 592 DF,  p-value: < 2.2e-16
##
## Call:
## lm(formula = Ben_Solar ~ Uppercaste + Male + Hindu + Urban +
##     age + State + KahanH + KahanS + pride + socialcosts, data = Solarwscores2)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.09665 -0.36332 -0.09527  0.61588  2.10050
##
## Coefficients:
```

```

##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)      3.486786   0.128878  27.055 < 2e-16 ***
## Uppercaste       -0.131669   0.075748  -1.738 0.082683 .
## Male              0.034569   0.082830   0.417 0.676577
## Hindu             0.155051   0.086322   1.796 0.072968 .
## UrbanUrban       -0.032985   0.081896  -0.403 0.687266
## age              -0.017383   0.032351  -0.537 0.591243
## StateRajasthan    0.368577   0.129017   2.857 0.004428 **
## StateTamil Nadu   0.453648   0.155240   2.922 0.003607 **
## StateUttar Pradesh -0.008497   0.142059  -0.060 0.952324
## StateWest Bengal   0.545084   0.144327   3.777 0.000175 ***
## KahanH            0.132315   0.058307   2.269 0.023608 *
## KahanS            -0.006362   0.060399  -0.105 0.916146
## pride             0.218994   0.043488   5.036 6.31e-07 ***
## socialcosts       -0.066542   0.044650  -1.490 0.136671
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.8318 on 598 degrees of freedom
## (5 observations deleted due to missingness)
## Multiple R-squared:  0.2298, Adjusted R-squared:  0.2131
## F-statistic: 13.73 on 13 and 598 DF, p-value: < 2.2e-16

```


Coal : positive ($\alpha = 0.67$) and negative ($\alpha = 0.72$) characteristics (2 factor solution)

```
## Factor Analysis using method = minres
## Call: fa(r = Coal2, nfactors = 2, rotate = "varimax")
## Standardized loadings (pattern matrix) based upon correlation matrix
##
```

	item	MR1	MR2	h2	u2	com
## Pollution risk(Coal)	2	0.71		0.50	0.50	1.0
## Health risk(Coal)	3	0.66		0.45	0.55	1.0
## Spoils Natural Beauty(Coal)	4	0.64		0.43	0.57	1.1
## Displacement risk(Coal)	1	0.49		0.24	0.76	1.0
## National pride(Coal)	6		0.71	0.50	0.50	1.0
## Community pride(Coal)	5		0.62	0.38	0.62	1.0
## National development(Coal)	7		0.53	0.40	0.60	1.7
## Local prosperity(Coal)	8		0.49	0.32	0.68	1.6

```
##
##
```

	MR1	MR2
## SS loadings	1.79	1.43
## Proportion Var	0.22	0.18
## Cumulative Var	0.22	0.40
## Proportion Explained	0.56	0.44
## Cumulative Proportion	0.56	1.00

```
##
## Mean item complexity = 1.2
## Test of the hypothesis that 2 factors are sufficient.
##
## df null model = 28 with the objective function = 1.71 with Chi Square = 1054.46
## df of the model are 13 and the objective function was 0.15
##
## The root mean square of the residuals (RMSR) is 0.04
## The df corrected root mean square of the residuals is 0.06
##
## The harmonic n.obs is 621 with the empirical chi square 63.83 with prob < 1.1e-08
## The total n.obs was 621 with Likelihood Chi Square = 94.07 with prob < 2.3e-14
##
## Tucker Lewis Index of factoring reliability = 0.83
## RMSEA index = 0.1 and the 90 % confidence intervals are 0.082 0.12
## BIC = 10.46
## Fit based upon off diagonal values = 0.98
## Measures of factor score adequacy
```

```
##
## Correlation of (regression) scores with factors    MR1 MR2
## Multiple R square of scores with factors          0.87 0.84
## Minimum correlation of possible factor scores      0.75 0.71
## Minimum correlation of possible factor scores      0.50 0.41
```

Table 20: Separate scale 2 factor solution: Coal

code	Items	Social CostsPride	Communality Uniqueness	Complexity	
Pollution risk(Coal)	Coal powered plants increases pollution of air/water/land	0.705	0.498	0.502	1.005
Health risk(Coal)	Coal powered plants poses a great risk to the health of people living around it	0.662	0.447	0.553	1.043
Spoils Natural Beauty(Coal)	Coal powered plants spoils the natural beauty of the landscape	0.642	0.429	0.571	1.078
Displacement risk(Coal)	Coal powered plants is leading to displacement of people from their land	0.486	0.236	0.764	1.000
National pride(Coal)	Coal powered plants is a mark of pride for our nation	0.705	0.504	0.496	1.026
Community pride(Coal)	I would be proud if my community used Coal powered plants	0.618	0.382	0.618	1.005
National development(Coal)	Coal powered plants pushes forward the country's development	0.535	0.401	0.599	1.691
Local prosperity(Coal)	Coal powered plants brings economic prosperity to the surrounding regions	0.488	0.324	0.676	1.634

Table 21: Eigenvalues and Variance Explained for Rotated Factor Solution

Property	Social_CostsPride
SS loadings	1.7921.430
Proportion Var	0.2240.179
Cumulative Var	0.2240.403
Proportion Explained	0.5560.444
Cumulative Proportion	0.5561.000

Linear Models: Perceived Risk X positive and negative characteristics of the technology

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Table 22: LMs with separate scale 2 FA solution: Perceived Risk

	<i>Dependent variable:</i>		
	Risky_Nuclear (1)	Risky_Solar (2)	Risky_Coal (3)
Uppercaste	−0.014 (0.101)	−0.081 (0.079)	0.012 (0.084)
Male	−0.131 (0.109)	−0.041 (0.087)	0.023 (0.094)
Hindu	−0.093 (0.108)	−0.115 (0.090)	0.177* (0.096)
UrbanUrban	0.077 (0.105)	−0.117 (0.087)	0.079 (0.091)
age	0.088* (0.048)	0.012 (0.034)	0.153*** (0.040)
StateRajasthan	0.403** (0.169)	−1.448*** (0.133)	−0.275** (0.129)
StateTamil Nadu	1.453*** (0.207)	−1.457*** (0.153)	−0.947*** (0.203)
StateUttar Pradesh	0.238 (0.170)	−1.161*** (0.144)	−0.978*** (0.150)
StateWest Bengal	1.327*** (0.175)	−1.054*** (0.143)	−0.222* (0.128)
socialcosts	0.107* (0.056)	0.083* (0.046)	0.423*** (0.044)
pride	0.226*** (0.051)	0.031 (0.045)	0.067 (0.041)
Constant	2.955*** (0.158)	2.846*** (0.133)	2.995*** (0.140)
Observations	451	604	607
R ²	0.301	0.393	0.205
Adjusted R ²	0.284	0.382	0.190
Residual Std. Error	0.934 (df = 439)	0.873 (df = 592)	0.935 (df = 595)
F Statistic	17.226*** (df = 11; 439)	34.885*** (df = 11; 592)	13.913*** (df = 11; 595)
<i>Note:</i> *p<0.1; **p<0.05; ***p<0.01			

Linear Models: Perceived Benefit X positive and negative characteristics of the technology

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Table 23: LMs with separate scale 2 FA solution: Perceived Benefit

	<i>Dependent variable:</i>		
	Ben_Nuclear (1)	Ben_Solar (2)	Ben_Coal (3)
Uppercaste	-0.287*** (0.108)	-0.132* (0.076)	-0.182** (0.084)
Male	0.058 (0.116)	0.035 (0.083)	0.148 (0.094)
Hindu	0.301*** (0.115)	0.155* (0.086)	0.129 (0.096)
UrbanUrban	0.208* (0.111)	-0.033 (0.082)	0.167* (0.092)
age	-0.084 (0.052)	-0.017 (0.032)	0.018 (0.040)
StateRajasthan	-0.202 (0.180)	0.369*** (0.129)	-0.180 (0.128)
StateTamil Nadu	-0.284 (0.220)	0.454*** (0.155)	-0.361* (0.199)
StateUttar Pradesh	-0.218 (0.182)	-0.008 (0.142)	-0.359** (0.151)
StateWest Bengal	0.203 (0.188)	0.545*** (0.144)	-0.570*** (0.128)
KahanH		0.132** (0.058)	
KahanS		-0.006 (0.060)	
socialcosts	0.117* (0.060)	-0.067 (0.045)	0.241*** (0.043)
pride	0.298*** (0.055)	0.219*** (0.043)	0.313*** (0.040)
Constant	3.176*** (0.169)	3.487*** (0.129)	3.079*** (0.141)
Observations	455	612	603
R ²	0.126	0.230	0.177
Adjusted R ²	0.104	0.213	0.161
Residual Std. Error	1.001 (df = 443)	0.832 (df = 598)	0.931 (df = 591)
F Statistic	5.814*** (df = 11; 443)	13.726*** (df = 13; 598)	11.537*** (df = 11; 591)
<i>Note:</i>			
*p<0.1; **p<0.05; ***p<0.01			

Linear Models: Acceptance(Benefit - Risk) X positive and negative characteristics of the technology

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Table 24: LMs with separate scale 2 FA solution: Perceived Benefit

	<i>Dependent variable:</i>		
	Nuclear (1)	Solar (2)	Coal (3)
age	−0.180*** (0.067)	−0.023 (0.051)	−0.149*** (0.053)
Uppercaste	−0.262* (0.141)	−0.059 (0.116)	−0.210* (0.110)
Male	0.211 (0.153)	0.086 (0.128)	0.140 (0.122)
Hindu	0.432*** (0.151)	0.288** (0.133)	−0.079 (0.126)
UrbanUrban	0.169 (0.146)	0.124 (0.128)	0.084 (0.120)
StateRajasthan	−0.588** (0.235)	1.891*** (0.196)	0.103 (0.168)
StateTamil Nadu	−1.756*** (0.290)	2.066*** (0.224)	0.648** (0.266)
StateUttar Pradesh	−0.445* (0.238)	1.218*** (0.211)	0.579*** (0.198)
StateWest Bengal	−1.180*** (0.247)	1.713*** (0.210)	−0.332** (0.167)
socialcosts	−0.0002 (0.078)	−0.164** (0.067)	−0.187*** (0.057)
pride	0.072 (0.072)	0.225*** (0.066)	0.245*** (0.053)
Constant	0.164 (0.221)	0.536*** (0.196)	0.131 (0.184)
Observations	446	601	599
R ²	0.189	0.420	0.091
Adjusted R ²	0.168	0.410	0.074
Residual Std. Error	1.299 (df = 434)	1.277 (df = 589)	1.213 (df = 587)
F Statistic	9.166*** (df = 11; 434)	38.840*** (df = 11; 589)	5.374*** (df = 11; 587)
<i>Note:</i> *p<0.1; **p<0.05; ***p<0.01			