



## Technical Report

# Parent Wave 1

### Parenting Values

<b>Source/Developer</b>	<ul style="list-style-type: none"><li>• z-proso Project Team</li><li>• Partially adapted from the World Values Survey (R. Inglehart, University of Michigan)</li></ul>
<b>Description</b>	A measure of the values underlying the caregivers parenting goals.
<b>Measured Concepts/ Subdimensions</b>	Explorative factor analyses suggest three orthogonal factors <ol style="list-style-type: none"><li>1. <i>Traditionalism/Materialism</i></li><li>2. <i>Individualism/Postmaterialism</i></li><li>3. <i>Altruism/Empathy</i></li></ol>
<b>Number of Items</b>	15
<b>Response Categories</b>	4-point Likert scale (from “not important at all” to “very important”)
<b>Item Examples</b>	<ul style="list-style-type: none"><li>• “To be thrifty, saving money and things” (Traditionalism)</li><li>• “To have imagination” (Individualism)</li><li>• “To be unselfish” (Altruism)</li></ul>
<b>Administration History</b>	Wave 1

**Parenting Values – Extraction of Relevant Dimensions Based on Exploratory Factor Analysis**

- Method**
- PCA with VARIMAX rotation
  - Extraction criterion: Eigenvalues > 1
  - Only loadings > .447 (20% of shared variance) are displayed

**Rotated Component Matrix**

	Component		
	1	2	3
V3510_6 to be thrifty, saving money and things	.758		
V3510_2 to work hard	.731		
V3510_8 to have religious faith	.714		
V3510_13 to have good manners	.674		
V3510_10 to be obedient	.667		
V3510_11 to be courageous	.632		
V3510_14 to obey rules and laws	.558		
V3510_7 to be determined and perseverant	.533		
V3510_15 to live on the spur of the moment		.620	
V3510_4 to have imagination		.614	
V3510_12 to assert one's own interests		.535	
V3510_1 to be independent		.516	
V3510_5 to be tolerant and showing respect for other people			.712
V3510_9 to be unselfish			.591

- Component Labels**
- 1- Traditionalism/ Materialism
  - 2- Individualism/Postmaterialism
  - 3- Altruism/Empathy

**Notes** •V3510\_3 (to have a feeling of responsibility) has been removed from the three subscales.

## Parenting Values Scale – Subscale “Traditionalism/Materialism”

- Variable Values**
- 4-point Likert scale
  - 1- not important at all
  - 2- rather unimportant
  - 3- rather important
  - 4- very important
  
  - 7- Does not apply (*MISSING*)
  - 8- Don't know/ Can't remember (*MISSING*)
  - 9- No answer/ Answer refused (*MISSING*)

**Variable Wording & Case Summary**

Variable Name	Label	Wording	Missings (%)
V3510_2	Traditionalism 1	To work hard	10 (0.8%)
V3510_6	Traditionalism 2	To be thrifty, saving money and things	9 (0.7%)
V3510_7	Traditionalism 3	To be determined and perseverant	15 (1.2%)
V3510_8	Traditionalism 4	To have religious faith	13 (1.1%)
V3510_10	Traditionalism 5	To be obedient	13 (1.1%)
V3510_11	Traditionalism 6	To be courageous	8 (0.7%)
V3510_13	Traditionalism 7	To have good manners	6 (0.5%)
V3510_14	Traditionalism 8	To obey rules and laws	7 (0.6%)

Total N = 1237

**Descriptive Statistics**

Variable Name	Label	Mean	Standard Deviation	Min.	Max.	Skewness	Kurtosis	Item-Scale Correlation	$\alpha$ If Item Removed ( $\alpha = .820$ )
V3510_2	Traditionalism 1	3.08	.805	1	4	-.423	-.652	.610	.789
V3510_6	Traditionalism 2	3.24	.725	1	4	-.599	-.228	.667	.781
V3510_7	Traditionalism 3	3.47	.598	1	4	-.762	.218	.434	.812
V3510_8	Traditionalism 4	2.71	1.08	1	4	-.231	-1.24	.586	.804
V3510_10	Traditionalism 5	3.38	.667	1	4	-.820	.391	.560	.797
V3510_11	Traditionalism 6	3.40	.668	1	4	-.737	-.270	.514	.803
V3510_13	Traditionalism 7	3.62	.546	2	4	-1.08	.158	.576	.798
V3510_14	Traditionalism 8	3.71	.486	1	4	-1.41	1.21	.495	.808

**Sum Index Descriptive Statistics**

Traditionalism/Materialism Subscale (P1_Trad)										
Group	N	Mean	Standard Deviation	Min.	Max.	Skewness	Kurtosis	ANOVA		
								df	F	p
Full sample	1230	2.33	.478	.880	3.00	-.373	-.683			
Gender								1	2.35	.126
Girls	590	2.35	.470	.880	3.00	-.438	-.566			
Boys	640	2.31	.485	1.00	3.00	-.313	-.770			
Treatment								3	4.12	.006
Control	325	2.31	.485	1.25	3.00	-.288	-.932			
Triple P	301	2.34	.475	1.00	3.00	-.360	-.717			
PATHS	340	2.28	.483	.880	3.00	-.343	-.533			
Combination	264	2.41	.458	1.00	3.00	-.532	-.445			
Language								8	88.78	.000
German	805	2.12	.428	.880	3.00	-.112	-.428			
Albanian	75	2.83	.184	2.13	3.00	-1.42	2.37			
Bos./Cro./ Serb.	90	2.72	.255	1.88	3.00	-.946	.648			
English	24	2.57	.370	1.50	3.00	-.888	1.32			
Italian	18	2.51	.316	2.00	3.00	-.119	-1.18			
Portuguese	77	2.86	.199	1.88	3.00	-2.39	7.95			
Spanish	51	2.52	.355	1.57	3.00	-.697	-.058			
Tamil	48	2.70	.311	1.88	3.00	-.802	-.257			
Turkish	42	2.69	.295	2.00	3.00	-.999	.276			

*Comments:*

1) The scale has been constructed by taking the average of all the variables. The maximum number of missing values allowed was 2. For the purpose of rescaling, 1 has been subtracted from the total scale.

2) The results of the ANOVA are significant for the treatment groups ( $F(3,1226) = 4.12, p < .01$ ) and language groups ( $F(8,1221) = 88.78, p < .001$ ). ANOVA yielded no significant results for the gender groups ( $F(1,1228) = 2.35, p > .05$ ).

**Correlations with Subscales & DVs** *Traditionalism/Materialism Subscale (P1\_Trad)*

Variable	Full Sample			Girls			Boys		
	r	p <sup>1</sup>	N	r	p <sup>1</sup>	N	r	p <sup>1</sup>	N
Subscales									
<i>Individualism/Postmaterialism</i>	.148	***	1227	.123	**	589	.170	***	638
<i>Altruism/Empathy</i>	.196	***	1226	.246	***	588	.153	***	638
Parent SBQ									
<i>Aggression</i>	-.301	***	1226	-.303	***	587	-.296	***	639
<i>Prosociality</i>	.160	***	1212	.158	***	584	.152	***	628
Teacher SBQ									
<i>Aggression</i>	.130	***	1188	.143	***	573	.141	***	615
<i>Prosociality</i>	.018	ns	1166	-.031	ns	561	.029	ns	605
Child SBQ									
<i>Aggression</i>	-.097	***	1205	-.097	*	580	-.090	*	625
<i>Prosociality</i>	-.065	*	1205	-.076	ns	580	-.071	ns	625

<sup>1</sup> \*\*\* p < .001, \*\* p < .01, \* p < .05, ns p > .05

*Comments:* The Traditionalism/Materialism subscale is significantly and positively –though not very strongly– correlated with the other two Parenting Values Subscales, both in the full sample and in each gender group separately. The Traditionalism/Materialism scale is very lowly correlated with child aggression and prosociality, though the correlations are stronger and more significant for the parent-reported measures. Further, the sign of these correlation also varies depending on the type of the informant.

## Parenting Values Scale – Subscale “Individualism/Postmaterialism”

- Variable Values**
- 4-point Likert scale
  - 1- not important at all
  - 2- rather unimportant
  - 3- rather important
  - 4- very important
  
  - 7- Does not apply (*MISSING*)
  - 8- Don't know/ Can't remember (*MISSING*)
  - 9- No answer/ Answer refused (*MISSING*)

**Variable Wording & Case Summary**

Variable Name	Label	Wording	Missings (%)
V3510_1	Individualism 1	To be independent	8 (0.7%)
V3510_4	Individualism 2	To have imagination	11 (0.9%)
V3510_12	Individualism 3	To assert one's own interests	8 (0.7%)
V3510_15	Individualism 4	To live on the spur of the moment	18 (1.5%)

Total N = 1237

**Descriptive Statistics**

Variable Name	Label	Mean	Standard Deviation	Min.	Max.	Skewness	Kurtosis	Item-Scale Correlation	$\alpha$ If Item Removed ( $\alpha = .495$ )
V3510_1	Individualism 1	3.72	.546	1	4	-2.16	5.51	.277	.437
V3510_4	Individualism 2	3.64	.622	1	4	-1.80	3.11	.314	.401
V3510_12	Individualism 3	3.52	.589	1	4	-.978	.838	.254	.454
V3510_15	Individualism 4	3.24	.760	1	4	-.817	.343	.324	.394

**Sum Index Descriptive Statistics**

**Individualism/Postmaterialism Subscale (P1\_Indiv)**

Group	N	Mean	Standard Deviation	Min.	Max.	Skewness	Kurtosis	ANOVA		
								df	F	p
Full sample	1229	2.53	.399	.500	3.00	-.970	1.25			
Gender								1	.010	.919
Girls	591	2.53	.399	1.00	3.00	-.836	.470			
Boys	638	2.53	.399	.500	3.00	-1.10	1.99			
Treatment								3	.068	.977
Control	325	2.54	.390	1.00	3.00	-.780	.471			
Triple P	301	2.53	.406	.750	3.00	-1.21	2.22			
PATHS	340	2.53	.382	.500	3.00	-.902	1.62			
Combination	263	2.52	.424	1.00	3.00	-.968	.674			
Language								8	29.12	.000
German	806	2.56	.337	1.25	3.00	-.552	-.129			
Albanian	75	2.62	.407	1.00	3.00	-1.66	3.40			
Bos./Cro./ Serb.	90	2.68	.405	.500	3.00	-2.38	8.89			
English	24	2.28	.398	1.25	3.00	-.532	.720			
Italian	18	2.51	.441	1.50	3.00	-.889	.194			
Portuguese	77	2.68	.367	1.33	3.00	-1.43	2.43			
Spanish	51	2.49	.487	.750	3.00	-1.22	2.24			
Tamil	47	1.92	.342	1.00	2.75	-.079	.450			
Turkish	41	2.12	.528	.750	3.00	-.533	-.275			

**Comments:**

1) The scale has been constructed by taking the average of all the four variables. The maximum number of missing values allowed was 1. For the purpose of rescaling, 1 has been subtracted from the total scale.

2) The results of the ANOVA are highly significant for the language groups ( $F(8,1220) = 29.12, p < .001$ ). ANOVA yielded no significant results for the gender groups ( $F(1,1227) = .010, p > .05$ ) and the treatment groups ( $F(3,1225) = .068, p > .05$ ).

**Correlations with Subscales & DVs** *Individualism/Postmaterialism Subscale (P1\_Indiv)*

Variable	r	Full Sample p <sup>1</sup>	N	r	Girls p <sup>1</sup>	N	r	Boys p <sup>1</sup>	N
Subscales									
<i>Traditionalism/Materialism</i>	.148	***	1227	.123	**	589	.170	***	638
<i>Altruism/Empathy</i>	.250	***	1223	.304	***	587	.197	***	636
Parent SBQ									
<i>Aggression</i>	-.048	ns	1224	-.024	ns	587	-.069	ns	637
<i>Prosociality</i>	.102	***	1211	.147	***	584	.068	ns	627
Teacher SBQ									
<i>Aggression</i>	.021	ns	1187	.073	ns	574	-.015	ns	613
<i>Prosociality</i>	.015	ns	1165	-.012	ns	562	.034	ns	603
Child SBQ									
<i>Aggression</i>	.008	ns	1204	.071	ns	581	-.048	ns	623
<i>Prosociality</i>	.017	ns	1204	-.011	ns	581	.039	ns	623

<sup>1</sup> \*\*\* p<.001, \*\* p<.01, \* p<.05, ns p>.05

*Comments:* The Individualism/Postmaterialism subscale is very significantly correlated with the other two Parenting Values subscales, and the Pearson correlation coefficient ranges from low to moderate. The correlation between the Individualism/Postmaterialism subscale and child aggression/prosociality is very weak and generally insignificant, with varying signs across samples and informants.

## Parenting Values Scale – Subscale “Altruism/Empathy”

- Variable Values**
- 4-point Likert scale
  - 1- not important at all
  - 2- rather unimportant
  - 3- rather important
  - 4- very important
  
  - 7- Does not apply (*MISSING*)
  - 8- Don't know/ Can't remember (*MISSING*)
  - 9- No answer/ Answer refused (*MISSING*)

**Variable Wording & Case Summary**

Variable Name	Label	Wording	Missings (%)
V3510_5	Altruism 1	To be tolerant, and showing respect for other people	5 (0.4%)
V3510_9	Altruism 2	To be unselfish	10 (0.8%)

Total N = 1237

**Descriptive Statistics**

Variable Name	Label	Mean	Standard Deviation	Min.	Max.	Skewness	Kurtosis	Item-Scale Correlation ( $\alpha = .278$ )
V3510_5	Altruism 1	3.91	.296	2	4	-2.86	6.60	.199
V3510_9	Altruism 2	3.63	.568	1	4	-1.49	2.35	.199

**Sum Index Descriptive Statistics**

**Altruism/Empathy Subscale (P1\_Altruism)**

Group	N	Mean	Standard Deviation	Min.	Max.	Skewness	Kurtosis	ANOVA		
								df	F	p
Full sample	1226	2.77	.344	1.00	3.00	-1.45	1.79			
Gender								1	1.46	.228
Girls	588	2.76	.352	1.50	3.00	-1.32	1.06			
Boys	638	2.78	.336	1.00	3.00	-1.59	2.63			
Treatment								3	.304	.823
Control	324	2.77	.357	1.50	3.00	-1.52	1.82			
Triple P	300	2.77	.328	1.50	3.00	-1.23	.925			
PATHS	339	2.76	.345	1.50	3.00	-1.33	1.24			
Combination	263	2.79	.344	1.00	3.00	-1.75	3.46			
Language								8	9.38	.000
German	801	2.75	.331	1.50	3.00	-1.10	.458			
Albanian	75	2.86	.267	2.00	3.00	-1.79	2.39			
Bos./Cro./ Serb.	90	2.88	.293	1.50	3.00	-2.97	10.06			
English	24	2.69	.462	1.50	3.00	-1.59	1.95			
Italian	18	2.81	.425	1.50	3.00	-2.33	5.04			
Portuguese	77	2.92	.262	1.50	3.00	-3.59	13.91			
Spanish	51	2.78	.304	2.00	3.00	-1.11	.258			
Tamil	48	2.46	.534	1.00	3.00	-.592	-.440			
Turkish	42	2.80	.332	1.50	3.00	-1.94	4.59			

**Comments:**

1) The scale has been constructed by taking the average of the two variables. No missing value was allowed. For the purpose of rescaling, 1 has been subtracted from the total scale.

2) The results of the ANOVA are highly significant for the language groups ( $F(8,1227) = 9.38, p < .001$ ). ANOVA yielded no significant results for the gender groups ( $F(1,1224) = 1.46, p > .05$ ) and the treatment groups ( $F(3,1222) = .304, p > .05$ ).

**Correlations with Subscales & DVs**

**Altruism/Empathy Subscale (P1\_Altruism)**

Variable	r	Full Sample		r	Girls		r	Boys	
		p <sup>1</sup>	N		p <sup>1</sup>	N		p <sup>1</sup>	N
Subscales									
Traditionalism/Materialism	.196	***	1226	.246	***	588	.153	***	638
Individualism/Postmaterialism	.250	***	1223	.304	***	587	.197	***	636
Parent SBQ									

<i>Aggression</i>	-.025	ns	1222	-.027	ns	585	-.033	ns	637
<i>Prosociality</i>	.110	***	1208	.157	***	582	.085	*	626
Teacher SBQ									
<i>Aggression</i>	.036	ns	1184	.026	ns	571	.034	ns	613
<i>Prosociality</i>	.002	ns	1162	.012	ns	559	.014	ns	603
Child SBQ									
<i>Aggression</i>	.040	ns	1201	.052	ns	578	.024	ns	623
<i>Prosociality</i>	.070	*	1201	.109	**	578	.051	ns	623

<sup>1</sup> \*\*\* p<.001, \*\* p<.01, \* p<.05, ns p>.05

*Comments:* The Altruism/Empathy subscale is very significantly correlated with the other two Parenting Values subscales, and the Pearson correlation coefficient ranges from low to moderate. The correlation between the Altruism/Empathy subscale and child aggression/prosociality is very low and generally insignificant, with varying signs for child aggression across informants.