

# Appendix 1

## Categorical Principal Components Analysis (CATPCA) Results

Table S1. Categorical Principal Components Analysis (CATPCA) Results for risky attitudes and behaviours online

### Model Summary

Dimensions	Cronbach's Alpha	Variance accounted for	
		Total (eigenvalue)	% of variance
1	0.518	1.709	34.173
2	-0.107	0.921	18.423
3	-0.221	0.850	17.000
4	-0.357	0.778	15.553
5	-0.433	0.743	14.852
Total	1,000 <sup>a</sup>	5.000	100.000

a. Total Cronbach's Alpha is based on the total Eigenvalue

### Loadings

	Dimensions				
	1	2	3	4	5
Phubbing	0.526	-0.419	0.727	-0.062	-0.124
Sincerity online	0.638	-0.220	-0.205	0.522	0.479
Uselessness of face-to-face dialogue	0.636	0.194	-0.121	-0.654	0.339
News Reliability on social media	0.476	0.783	0.235	0.270	-0.179
Virtual Substitution	0.626	-0.216	-0.458	-0.020	-0.592

Table S2. Categorical Principal Components Analysis (CATPCA) Results for negative peer relationships

<b>Model Summary</b>				
<i>Dimensions</i>	Cronbach's Alpha	Variance accounted for		
		Total (eigenvalue)	% of variance	
1	0.663	1.988	49.710	
2	-0.249	0.843	21.066	
3	-0.538	0.713	17.815	
4	-1.588	0.456	11.409	
<i>Totale</i>	1,000 <sup>a</sup>	4.000	100.000	
<i>a. Total Cronbach's Alpa is based on the total Eigenvalue</i>				
<b>Loadings</b>				
	Dimensions			
	1	2	3	4
<i>Frequency of meetings with friends</i>	-0.567	0.741	-0.350	0.080
<i>Friendship network size</i>	-0.663	0.189	0.725	0.005
<i>Friendships satisfaction</i>	0.802	0.272	0.197	0.494
<i>Trust in friends</i>	-0.764	-0.429	-0.161	0.454

Table S3. Categorical Principal Components Analysis (CATPCA) Results for low trust in adult figures

Model Summary				
Dimensions	Cronbach's Alpha	Variance accounted for		
		Total (eigenvalue)	% of variance	
1	0.724	2.189	54.26282	
2	-0.240	0.847	21.00968	
3	-1.141	0.539	13.36041	
4	-1.577	0.458	11.36709	
Totale	1,000 <sup>a</sup>	5.000	100.000	
a. Total Cronbach's Alpa is based on the total Eigenvalue				
Loadings				
Trust in mother	Dimensions			
	1	2	3	
	0.808	-0.253	-0.180	0.510
Trust in father	0.798	-0.201	-0.372	-0.431
Trust in other family members	0.791	-0.106	0.603	-0.109
Trust in Teachers	0.524	0.856	-0.066	0.036

## Appendix 2

Table S1. Results of the Binomial Logistic Regression with Hyperconnection as the Dependent Variable and Socio-Demographic Characteristics as Independent Variables

### Variables in the Equation

		B	S.E.	Wald	df	P value	Exp(B)	95% C.I. for EXP(B)	
								Upper	Superiore
Phase 1 <sup>a</sup>	Sex (Male)	-0.760	0.050	231.791	1	0.000	0.467	0.424	0.516
	Constant	-0.331	0.035	87.687	1	0.000	0.718		
Phase 2 <sup>b</sup>	Sex (Male)	-0.832	0.051	263.585	1	0.000	0.435	0.394	0.481
	Year (2022)	0.846	0.053	253.009	1	0.000	2.331	2.100	2.587
	Constant	-0.803	0.047	286.507	1	0.000	0.448		
Phase 3 <sup>c</sup>	Sex (Male)	-0.821	0.052	253.764	1	0.000	0.440	0.398	0.487
	Year (2022)	0.796	0.054	216.766	1	0.000	2.217	1.994	2.465
	Geographic area			71.535	3	0.000			
	Geographic area (Centre)	-0.126	0.069	3.400	1	0.065	0.881	0.770	1.008
	Geographic area (Northeast)	-0.459	0.071	41.769	1	0.000	0.632	0.550	0.726
	Geographic area (Northwest)	-0.501	0.071	49.240	1	0.000	0.606	0.527	0.697
	Constant	-0.544	0.062	77.303	1	0.000	0.581		
Phase 4 <sup>d</sup>	Sex (Male)	-0.853	0.054	253.499	1	0.000	0.426	0.383	0.473
	Type of school			63.145	2	0.000			
	Type of school (Technical school)	0.314	0.064	23.733	1	0.000	1.369	1.207	1.554
	Type of school (Vocational school)	0.486	0.062	61.018	1	0.000	1.625	1.439	1.836
	Year (2022)	0.806	0.054	220.056	1	0.000	2.238	2.012	2.490
	Geographic area			74.353	3	0.000			
	Geographic area (Centre)	-0.137	0.069	3.967	1	0.046	0.872	0.761	0.998
	Geographic area (Northeast)	-0.465	0.071	42.484	1	0.000	0.628	0.546	0.722
	Geographic area (Northwest)	-0.521	0.072	52.703	1	0.000	0.594	0.516	0.683
	Constant	-0.773	0.069	125.170	1	0.000	0.462		
	Sex (Male)	-0.789	0.055	206.627	1	0.000	0.454	0.408	0.506

Phase 5 <sup>e</sup>	Type of school			49.025	2	0.000			
	Type of school (Technical Institute)	0.275	0.065	17.878	1	0.000	1.316	1.159	1.495
	Type of school (Vocational school)	0.435	0.063	47.711	1	0.000	1.545	1.366	1.748
	Sports engagement (Yes)	-0.288	0.054	28.381	1	0.000	0.750	0.674	0.833
	Year (2022)	0.790	0.054	210.720	1	0.000	2.204	1.981	2.453
	Geographic area			69.055	3	0.000			
	Geographic area (Centre)	-0.121	0.069	3.039	1	0.081	0.886	0.774	1.015
	Geographic area (Northeast)	-0.445	0.072	38.706	1	0.000	0.641	0.557	0.737
	Geographic area (Northwest)	-0.502	0.072	48.668	1	0.000	0.605	0.525	0.697
	Constant	-0.606	0.076	64.058	1	0.000	0.546		

*Table S2. Results of the Binomial Logistic Regression with Negative Individual Status as the Dependent Variable and Hyperconnection as the Independent Variable*

			<i>Variables in the Equation</i>							
			B	S.E.	Wald	df	P value	Exp(B)	95% C.I. for EXP(B)	
									Upper	Lower
<i>Female</i>	Phase 1	Hyperconnect ion	0.334	0.113	8.769	1	0.003	1.397	1.120	1.743
		Constant	-1.341	0.085	249.447	1	0.000	0.262		
<i>Male</i>	Phase 1	Hyperconnect ion	0.347	0.097	12.706	1	0.000	1.414	1.169	1.711
		Constant	-1.209	0.057	453.581	1	0.000	0.299		

*Table S3. Results of the Binomial Logistic Regression with Cyberbullying Victimization as the Dependent Variable and Hyperconnection as the Independent Variable*

			<i>Variables in the Equation</i>							
			B	S.E.	Wald	df	P value	Exp(B)	95% C.I. for EXP(B)	
									Upper	Lower
<i>Female</i>	Phase 1	Hyperconnection	,321	,113	8,124	1	,004	1,379	1,106	1,720
		Constant	-1,334	,085	247,817	1	<,001	,263		

*Table S4. Results of the Binomial Logistic Regression with Low Trust in Adult Figures as the Dependent Variable and Hyperconnection as the Independent Variable*

			<i>Variables in the Equation</i>							
			B	S.E.	Wald	df	P value	Exp(B)	95% C.I. for EXP(B)	
									Upper	Lower
<i>Female</i>	Phase 1	Hyperconnection	0.249	0.100	6.146	1	0.013	1.283	1.054	1.562
		Constant	-0.765	0.074	107.072	1	0.000	0.465		
<i>Male</i>	Phase 1	Hyperconnection	0.261	0.099	6.926	1	0.008	1.298	1.069	1.576
		Constant	-1.238	0.057	468.255	1	0.000	0.290		

*Table S5. Results of the Binomial Logistic Regression with Poor Peer Relationships as the Dependent Variable and Hyperconnection as the Independent Variable*

			<i>Variables in the Equation</i>							
			B	S.E.	Wald	df	P value	Exp(B)	95% C.I. for EXP(B)	
									Upper	Lower
<i>Female</i>	Phase 1	Hyperconnection	-0.349	0.101	11.859	1	0.001	0.705	0.578	0.860
		Constant	-0.523	0.071	54.034	1	0.000	0.592		

*Table S6. Results of the Binomial Logistic Regression with Risky Attitudes and Behaviours Online as the Dependent Variable and Hyperconnection as the Independent Variable*

			<i>Variables in the Equation</i>							
			B	S.E.	Wald	df	P value	Exp(B)	95% C.I. for EXP(B)	
									Upper	Lower
<i>Female</i>	Phase 1	Hyperconnection	0.695	0.115	36.743	1	0.000	2.003	1.600	2.507
		Constant	-1.516	0.090	286.310	1	0.000	0.220		
<i>Male</i>	Phase 1	Hyperconnection	0.427	0.097	19.595	1	0.000	1.533	1.269	1.853
		Constant	-1.222	0.057	460.098	1	0.000	0.295		

Table S7. Results of the Binomial Logistic Regression with Body Dissatisfaction as the Dependent Variable and Hyperconnection as the Independent Variable

			Variables in the Equation							
			B	S.E.	Wald	df	P value	Exp(B)	95% C.I. for EXP(B)	
									Upper	Lower
Female	Phase 1	Hyperconnection	0.365	0.097	14.173	1	0.000	1.440	1.191	1.741
		Constant	0.138	0.069	3.979	1	0.046	1.148		
Male	Phase 1	Hyperconnection	0.360	0.090	16.137	1	0.000	1.434	1.203	1.710
		Constant	-0.762	0.051	220.602	1	0.000	0.467		