

## Reliability and validity for the full sample

Table S1: Reliability for the full sample

<b>Construct</b>	<b>Cronbach's alpha</b>	<b>H</b>	<b>H<sub>j</sub> min</b>
<b>PE</b>	0.74	0.45	0.36
<b>EE</b>	0.67	0.36	0.31
<b>SI</b>	0.42	0.31	0.31
<b>FC</b>	0.51	0.22	0.04 (item FC4)
<b>HM</b>	0.75	0.54	0.50
<b>HB</b>	0.85	0.77	0.77
<b>PR</b>	0.55	0.24	0.19 (item PR4)
<b>PTP</b>	0.86	0.64	0.60
<b>PSE</b>	0.92	0.78	0.73
<b>INN</b>	0.87	0.66	0.59

The Cronbach alpha values in Table S1 show that – measured as indicated in Appendix 1; that is, with all items – most constructs have acceptable reliability ( $\geq 0.70$ ). Exceptions are EE, SI, FC, and PR. In addition, Loevinger's H coefficients are  $\geq 0.3$  (except for FC and PR), which indicates good scalability. However, the  $H_{item4}^{FC}$  coefficient is  $< 0.3$  (0.04), which means that item FC4 might not be consistent with scale FC. The  $H_{item4}^{PR}$  coefficient is also  $< 0.3$  (0.19). For other subscales, no  $H_{item}^{scale}$  is  $< 0.3$ .

The convergent and divergent (discriminant) validity are examined in the correlation matrix in Table S2. The elements of this matrix are the correlation coefficients between items and rest scores. Elements on the diagonal (correlations between an item and the rest score of its dimension) are displayed in bold. On the diagonal, values less than 0.4 are displayed in red, indicating lack of convergent validity. For each row, off-diagonal values greater than values on the diagonal are displayed in red, indicating lack of divergent validity. Overall, convergent and divergent validity are largely supported. 26/35 items (74.3%) have a correlation coefficient with the score of their own dimension greater than 0.4 (convergent validity). 28/35 items (80.0%) have a correlation coefficient with the score of their own

dimension greater than those computed with other scores (divergent validity). The scores indicated in red are largely related to the constructs SI, FC, and PR.

Based on this analysis, we have decided to remove the most problematic items: item FC4 for the FC scale and item PR4 for the PR scale. The items for SI were retained because removing one of them would have resulted in a scale with only one item<sup>1</sup>. Tables S3 and S4 show reliability, convergent validity, and divergent validity after the removal of items FC4 and PR4. After having dropped these items, the reliability problems are largely solved and the scores in terms of validity have considerably improved<sup>2</sup>.

Table S2: Convergent and divergent validity for the full sample

	PE	EE	SI	FC	HM	HB	PR	PTP	PSE	INN
PE1	<b>0.619</b>	0.373	0.514	0.302	0.566	<b>0.623</b>	-0.324	0.382	-0.237	0.264
PE2	<b>0.601</b>	0.368	0.482	0.289	0.414	0.508	-0.250	0.312	-0.235	0.223
PE3	<b>0.534</b>	0.266	0.379	0.251	0.415	0.471	-0.162	0.253	-0.090	0.214
PE4	<b>0.409</b>	0.251	0.315	0.114	<b>0.431</b>	<b>0.427</b>	-0.218	0.145	-0.063	0.164
EE1	0.341	<b>0.478</b>	0.337	0.468	0.352	0.304	-0.363	0.153	-0.181	0.310
EE2	0.226	<b>0.554</b>	0.230	0.210	0.370	0.217	-0.352	0.017	-0.087	0.217
EE3	0.249	<b>0.410</b>	0.253	0.200	0.266	0.250	-0.336	0.094	-0.077	0.158
EE4	<b>0.404</b>	<b>0.379</b>	0.276	0.331	0.363	0.349	-0.338	0.134	-0.134	0.157
SI1	<b>0.559</b>	<b>0.316</b>	<b>0.265</b>	<b>0.281</b>	<b>0.392</b>	<b>0.546</b>	-0.284	0.227	-0.210	0.228
SI2	<b>0.305</b>	<b>0.289</b>	<b>0.265</b>	0.263	0.251	0.250	-0.186	0.190	-0.050	0.148
FC1	0.177	0.222	0.237	<b>0.445</b>	0.100	0.170	-0.157	0.096	-0.177	0.156
FC2	0.220	0.367	0.232	<b>0.398</b>	0.126	0.243	-0.192	0.195	-0.139	0.324
FC3	<b>0.373</b>	0.320	0.304	<b>0.343</b>	0.285	<b>0.365</b>	-0.187	0.155	-0.142	0.328
FC4	0.034	<b>0.143</b>	<b>0.083</b>	<b>0.044</b>	0.037	-0.023	-0.072	-0.091	0.008	-0.079
HM1	0.611	0.423	0.409	0.234	<b>0.678</b>	0.525	-0.276	0.240	-0.087	0.238
HM2	0.464	0.496	0.369	0.234	<b>0.564</b>	0.489	-0.311	0.206	-0.188	0.293
HM3	0.415	0.212	0.234	0.058	<b>0.524</b>	0.435	-0.115	0.056	0.095	0.199
HB1	0.623	0.356	0.437	0.290	0.540	<b>0.746</b>	-0.314	0.319	-0.163	0.328
HB2	0.646	0.371	0.547	0.275	0.565	<b>0.746</b>	-0.337	0.275	-0.197	0.296
PR1	-0.300	-0.380	-0.277	-0.181	-0.258	-0.298	<b>0.355</b>	-0.107	0.174	-0.158
PR2	-0.172	-0.396	-0.155	-0.173	-0.171	-0.169	<b>0.425</b>	0.056	0.147	-0.124
PR3	-0.136	-0.350	-0.222	-0.218	-0.112	-0.164	<b>0.303</b>	-0.063	0.129	-0.108
PR4	-0.212	-0.173	-0.142	-0.071	-0.210	-0.259	<b>0.248</b>	-0.065	0.164	-0.040
PTP1	0.241	0.105	0.169	0.106	0.128	0.209	-0.060	<b>0.723</b>	-0.102	0.156
PTP2	0.275	0.098	0.173	0.134	0.127	0.217	-0.045	<b>0.731</b>	-0.193	0.159
PTP3	0.220	0.107	0.182	0.141	0.141	0.197	-0.016	<b>0.754</b>	-0.125	0.165
PTP4	0.501	0.148	0.354	0.083	0.316	0.441	-0.122	<b>0.621</b>	-0.226	0.192
PSE1	-0.182	-0.173	-0.152	-0.148	-0.066	-0.166	0.187	-0.122	<b>0.806</b>	-0.062
PSE2	-0.184	-0.138	-0.160	-0.149	-0.086	-0.197	0.225	-0.182	<b>0.869</b>	-0.065

<sup>1</sup> A caveat is that the results related to SI need to be interpreted with caution.

<sup>2</sup> Item PR3 was retained, as removing it would have resulted in a scale with only two items.

PSE3	-0.156	-0.133	-0.126	-0.182	-0.015	-0.094	0.176	-0.168	<b>0.744</b>	-0.037
PSE4	-0.249	-0.174	-0.209	-0.196	-0.129	-0.240	0.233	-0.212	<b>0.865</b>	-0.101
INN1	0.293	0.217	0.227	0.243	0.327	0.331	-0.128	0.221	-0.079	<b>0.761</b>
INN2	0.240	0.184	0.140	0.168	0.200	0.261	-0.153	0.184	0.008	<b>0.691</b>
INN3	0.188	0.257	0.221	0.248	0.220	0.230	-0.168	0.065	-0.111	<b>0.636</b>
INN4	0.267	0.223	0.237	0.320	0.276	0.314	-0.096	0.217	-0.079	<b>0.801</b>

Table S3: Reliability for the full sample after removing FC4 and PR4

<b>Construct</b>	<b>Cronbach's alpha</b>	<b>H</b>	<b>Hj_min</b>
<b>PE</b>	0.74	0.45	0.36
<b>EE</b>	0.67	0.36	0.31
<b>SI</b>	0.42	0.31	0.31
<b>FC</b>	0.65	0.41	0.37
<b>HM</b>	0.75	0.54	0.50
<b>HB</b>	0.85	0.77	0.77
<b>PR</b>	0.55	0.31	0.28 (item PR3)
<b>PTP</b>	0.86	0.64	0.60
<b>PSE</b>	0.92	0.78	0.73
<b>INN</b>	0.87	0.66	0.59

Table S4: Convergent and divergent validity for the full sample after removing FC4 and PR4

	PE	EE	SI	FC	HM	HB	PR	PTP	PSE	INN
PE1	<b>0.619</b>	0.373	0.514	0.336	0.566	<b>0.623</b>	-0.295	0.382	-0.237	0.264
PE2	<b>0.601</b>	0.368	0.482	0.330	0.414	0.508	-0.203	0.312	-0.235	0.223
PE3	<b>0.534</b>	0.266	0.379	0.258	0.415	0.471	-0.157	0.253	-0.090	0.214
PE4	<b>0.409</b>	0.251	0.315	0.094	<b>0.431</b>	<b>0.427</b>	-0.193	0.145	-0.063	0.164
EE1	0.341	<b>0.478</b>	0.337	0.459	0.352	0.304	-0.396	0.153	-0.181	0.310
EE2	0.226	<b>0.554</b>	0.230	0.188	0.370	0.217	-0.398	0.017	-0.087	0.217
EE3	0.249	<b>0.410</b>	0.253	0.221	0.266	0.250	-0.336	0.094	-0.077	0.158
EE4	<b>0.404</b>	<b>0.379</b>	0.276	0.288	0.363	0.349	-0.345	0.134	-0.134	0.157
SI1	<b>0.559</b>	<b>0.316</b>	<b>0.265</b>	<b>0.305</b>	<b>0.392</b>	<b>0.546</b>	-0.250	0.227	-0.210	0.228
SI2	<b>0.305</b>	<b>0.289</b>	<b>0.265</b>	0.237	0.251	0.250	-0.233	0.190	-0.050	0.148
FC1	0.177	0.222	0.237	<b>0.504</b>	0.100	0.170	-0.154	0.096	-0.177	0.156
FC2	0.220	0.367	0.232	<b>0.479</b>	0.126	0.243	-0.201	0.195	-0.139	0.324
FC3	<b>0.373</b>	0.320	0.304	<b>0.380</b>	0.285	0.365	-0.194	0.155	-0.142	0.328
HM1	0.611	0.423	0.409	0.250	<b>0.678</b>	0.525	-0.235	0.240	-0.087	0.238
HM2	0.464	0.496	0.369	0.231	<b>0.564</b>	0.489	-0.307	0.206	-0.188	0.293
HM3	0.415	0.212	0.234	0.068	<b>0.524</b>	0.435	-0.055	0.056	0.095	0.199
HB1	0.623	0.356	0.437	0.319	0.540	<b>0.746</b>	-0.270	0.319	-0.163	0.328
HB2	0.646	0.371	0.547	0.330	0.565	<b>0.746</b>	-0.281	0.275	-0.197	0.296
PR1	-0.300	-0.380	-0.277	-0.170	-0.258	-0.298	<b>0.372</b>	-0.107	0.174	-0.158
PR2	-0.172	-0.396	-0.155	-0.143	-0.171	-0.169	<b>0.404</b>	0.056	0.147	-0.124
PR3	-0.136	-0.350	-0.222	-0.214	-0.112	-0.164	<b>0.311</b>	-0.063	0.129	-0.108
PTP1	0.241	0.105	0.169	0.135	0.128	0.209	-0.047	<b>0.723</b>	-0.102	0.156
PTP2	0.275	0.098	0.173	0.178	0.127	0.217	-0.020	<b>0.731</b>	-0.193	0.159
PTP3	0.220	0.107	0.182	0.184	0.141	0.197	-0.018	<b>0.754</b>	-0.125	0.165
PTP4	0.501	0.148	0.354	0.160	0.316	0.441	-0.100	<b>0.621</b>	-0.226	0.192
PSE1	-0.182	-0.173	-0.152	-0.171	-0.066	-0.166	0.162	-0.122	<b>0.806</b>	-0.062
PSE2	-0.184	-0.138	-0.160	-0.169	-0.086	-0.197	0.195	-0.182	<b>0.869</b>	-0.065
PSE3	-0.156	-0.133	-0.126	-0.197	-0.015	-0.094	0.166	-0.168	<b>0.744</b>	-0.037
PSE4	-0.249	-0.174	-0.209	-0.229	-0.129	-0.240	0.206	-0.212	<b>0.865</b>	-0.101
INN1	0.293	0.217	0.227	0.295	0.327	0.331	-0.131	0.221	-0.079	<b>0.761</b>
INN2	0.240	0.184	0.140	0.239	0.200	0.261	-0.153	0.184	0.008	<b>0.691</b>
INN3	0.188	0.257	0.221	0.287	0.220	0.230	-0.214	0.065	-0.111	<b>0.636</b>
INN4	0.267	0.223	0.237	0.393	0.276	0.314	-0.111	0.217	-0.079	<b>0.801</b>

Note: *Convergent validity*: 27/33 items (81.8%) have a correlation coefficient with the score of their own dimension greater than 0.4; *Divergent validity*: 28/33 items (84.8%) have a correlation coefficient with the score of their own dimension greater than those computed with other scores.

## Reliability and validity for the potential adopters sample

Table S5: Reliability for the potential adopters

Construct	Cronbach's alpha	H	Hj_min
PE	0.60	0.30	0.19 (item PE4)
EE	0.59	0.28	0.22 (item EE4)
SI	0.29	0.21	0.21 (item SI2)
FC	0.50	0.22	0.06 (item FC4)
HM	0.71	0.48	0.44
HB	0.80	0.71	0.71
PR	0.46	0.18	0.09 (item PR4)
PTP	0.85	0.63	0.58
PSE	0.92	0.76	0.69
INN	0.86	0.64	0.56

The Cronbach alpha values in Table S5 hint at reliability issues for PE, EE, SI, FC, and PR. In addition, Loevinger's H coefficient is below 0.3 for these constructs (except for PE), which indicates poor scalability. The  $H_{item4}^{PE}$ ,  $H_{item4}^{EE}$ ,  $H_{item2}^{SI}$ ,  $H_{item4}^{FC}$ , and  $H_{item4}^{PR}$  coefficients are  $< 0.3$ , which means that these items might not be consistent with their respective scale. For other subscales, no  $H_{item}^{scale}$  is  $< 0.3$ .

Where convergent validity is concerned, 23/35 items (65.7%) have a correlation coefficient with the score of their own dimension greater than 0.4. The score for divergent validity is somewhat higher: 27/35 items (77.1%) have a correlation coefficient with the score of their own dimension greater than those computed with other scores. The correlation matrix in Table S6 shows that the validity issues are mainly related to the same constructs (PE, EE, SI, FC, and PR).

Based on this analysis, we have decided to remove the most problematic items: item PE4 for the PE scale, item EE4 for the EE scale, item FC4 for the FC scale, and item PR4 for the PR scale. Item SI2 was retained, because removing it would have resulted in a scale with

only one item<sup>3</sup>. Tables S7 and S8 show reliability, convergent validity, and divergent validity after the removal of items PE4, EE4, FC4 and PR4. After having dropped these items, the reliability problems are largely solved and the scores in terms of validity have considerably improved<sup>4</sup>.

Table S6: Convergent and divergent validity for the potential adopters

	PE	EE	SI	FC	HM	HB	PR	PTP	PSE	INN
PE1	<b>0.471</b>	0.207	0.349	0.237	0.449	<b>0.496</b>	-0.095	0.297	-0.085	0.200
PE2	<b>0.452</b>	0.199	0.330	0.219	0.236	0.343	-0.026	0.213	-0.085	0.147
PE3	<b>0.407</b>	0.164	0.249	0.187	0.292	0.383	0.017	0.172	0.008	0.138
PE4	<b>0.234</b>	0.099	0.170	0.009	<b>0.291</b>	<b>0.309</b>	-0.032	0.054	0.061	0.113
EE1	0.171	<b>0.397</b>	0.235	<b>0.452</b>	0.221	0.152	-0.278	0.081	-0.127	0.295
EE2	0.123	<b>0.515</b>	0.186	0.179	0.302	0.120	-0.306	-0.030	-0.015	0.178
EE3	0.072	<b>0.311</b>	0.115	0.151	0.142	0.106	-0.235	0.001	0.033	0.150
EE4	<b>0.332</b>	<b>0.280</b>	0.183	<b>0.302</b>	<b>0.290</b>	0.267	-0.256	0.094	-0.033	0.134
SI1	<b>0.380</b>	0.146	<b>0.167</b>	<b>0.216</b>	<b>0.223</b>	<b>0.395</b>	-0.080	0.069	-0.066	0.156
SI2	<b>0.224</b>	<b>0.271</b>	<b>0.167</b>	<b>0.250</b>	0.156	0.153	-0.141	0.114	-0.053	0.110
FC1	0.092	0.190	0.183	<b>0.440</b>	0.014	0.098	-0.090	0.044	-0.155	0.104
FC2	0.110	0.332	0.155	<b>0.380</b>	0.029	0.146	-0.112	0.157	-0.088	0.297
FC3	<b>0.313</b>	0.283	0.257	<b>0.311</b>	0.215	<b>0.321</b>	-0.096	0.094	-0.089	0.300
FC4	<b>0.091</b>	<b>0.180</b>	<b>0.152</b>	<b>0.068</b>	0.023	0.019	-0.141	-0.068	-0.030	-0.089
HM1	0.472	0.281	0.253	0.149	<b>0.613</b>	0.423	-0.103	0.162	0.031	0.214
HM2	0.327	0.427	0.232	0.144	<b>0.500</b>	0.414	-0.200	0.112	-0.140	0.263
HM3	0.321	0.103	0.113	-0.031	<b>0.473</b>	0.399	-0.001	0.016	0.160	0.178
HB1	0.513	0.204	0.289	0.218	0.464	<b>0.670</b>	-0.137	0.239	0.003	0.273
HB2	0.527	0.223	0.402	0.216	0.482	<b>0.670</b>	-0.161	0.168	-0.050	0.250
PR1	-0.094	-0.281	-0.149	-0.129	-0.130	-0.141	<b>0.254</b>	0.016	0.074	-0.123
PR2	-0.037	-0.387	-0.096	-0.124	-0.099	-0.087	<b>0.422</b>	0.101	0.036	-0.134
PR3	0.051	-0.317	-0.102	-0.190	0.010	-0.017	<b>0.241</b>	0.018	0.064	-0.079
PR4	-0.038	-0.047	-0.008	-0.009	-0.099	-0.142	<b>0.122</b>	0.021	0.057	0.025
PTP1	0.178	0.066	0.067	0.078	0.079	0.138	0.013	<b>0.689</b>	-0.053	0.116
PTP2	0.234	0.059	0.069	0.110	0.076	0.163	0.035	<b>0.714</b>	-0.158	0.126
PTP3	0.185	0.078	0.097	0.132	0.102	0.148	0.040	<b>0.750</b>	-0.094	0.145
PTP4	0.336	-0.047	0.147	0.030	0.169	0.300	0.122	<b>0.608</b>	-0.110	0.116
PSE1	-0.068	-0.074	-0.100	-0.118	0.015	-0.037	0.082	-0.064	<b>0.794</b>	-0.023
PSE2	-0.007	-0.011	-0.043	-0.114	0.019	-0.032	0.083	-0.116	<b>0.862</b>	-0.025
PSE3	-0.028	-0.060	-0.062	-0.165	0.081	0.033	0.064	-0.108	<b>0.714</b>	-0.009
PSE4	-0.071	-0.055	-0.100	-0.163	-0.015	-0.073	0.090	-0.136	<b>0.859</b>	-0.060
INN1	0.228	0.207	0.143	0.197	0.294	0.295	-0.090	0.178	-0.055	<b>0.751</b>
INN2	0.196	0.191	0.095	0.124	0.187	0.219	-0.105	0.166	0.070	<b>0.700</b>
INN3	0.098	0.282	0.160	0.210	0.188	0.161	-0.139	-0.005	-0.084	<b>0.595</b>
INN4	0.235	0.251	0.195	0.296	0.269	0.295	-0.061	0.180	-0.059	<b>0.793</b>

<sup>3</sup> A caveat is that the results related to SI need to be interpreted with caution.

<sup>4</sup> Item PR3 was retained, as removing it would have resulted in a scale with only two items.

Table S7: Reliability for the potential adopters after removing PE4, EE4, FC4, PR4

Construct	Cronbach's alpha	H	H <sub>j_min</sub>
<b>PE</b>	<b>0.64</b>	0.39	0.38
<b>EE</b>	<b>0.59</b>	0.34	0.30
<b>SI</b>	<b>0.29</b>	<b>0.21</b>	<b>0.21</b> (item SI2)
<b>FC</b>	<b>0.62</b>	0.38	0.32
<b>HM</b>	0.71	0.48	0.44
<b>HB</b>	0.80	0.71	0.71
<b>PR</b>	<b>0.52</b>	<b>0.28</b>	<b>0.23</b> (item PR3)
<b>PTP</b>	0.85	0.63	0.58
<b>PSE</b>	0.92	0.76	0.69
<b>INN</b>	0.86	0.64	0.56

Table S8: Convergent/divergent validity for the potential adopters after removing PE4, EE4, FC4, PR4

	PE	EE	SI	FC	HM	HB	PR	PTP	PSE	INN
PE1	<b>0.467</b>	0.139	0.349	0.235	0.449	<b>0.496</b>	-0.090	0.297	-0.085	0.200
PE2	<b>0.448</b>	0.151	0.330	0.241	0.236	0.343	0.006	0.213	-0.085	0.147
PE3	<b>0.437</b>	0.100	0.249	0.172	0.292	0.383	0.005	0.172	0.008	0.138
EE1	0.221	<b>0.348</b>	0.235	<b>0.427</b>	0.221	0.152	-0.336	0.081	-0.127	0.295
EE2	0.114	<b>0.489</b>	0.186	0.162	0.302	0.120	-0.373	-0.030	-0.015	0.178
EE3	0.059	<b>0.350</b>	0.115	0.157	0.142	0.106	-0.247	0.001	0.033	0.150
SI1	<b>0.367</b>	0.117	<b>0.167</b>	<b>0.219</b>	<b>0.223</b>	<b>0.395</b>	-0.064	0.069	-0.066	0.156
SI2	<b>0.232</b>	<b>0.261</b>	<b>0.167</b>	<b>0.197</b>	0.156	0.153	-0.208	0.114	-0.053	0.110
FC1	0.135	0.187	0.183	<b>0.485</b>	0.014	0.098	-0.088	0.044	-0.155	0.104
FC2	0.151	0.320	0.155	<b>0.454</b>	0.029	0.146	-0.137	0.157	-0.088	0.297
FC3	<b>0.338</b>	0.224	0.257	<b>0.331</b>	0.215	0.321	-0.112	0.094	-0.089	0.300
HM1	0.463	0.236	0.253	0.160	<b>0.613</b>	0.423	-0.082	0.162	0.031	0.214
HM2	0.302	0.396	0.232	0.132	<b>0.500</b>	0.414	-0.215	0.112	-0.140	0.263
HM3	0.255	0.048	0.113	-0.019	<b>0.473</b>	0.399	-0.112	0.016	0.160	0.178
HB1	0.468	0.138	0.289	0.229	0.464	<b>0.670</b>	-0.103	0.239	0.003	0.273
HB2	0.513	0.169	0.402	0.243	0.482	<b>0.670</b>	-0.110	0.168	-0.050	0.250
PR1	-0.087	-0.241	-0.149	-0.086	-0.130	-0.141	<b>0.335</b>	0.016	0.074	-0.123
PR2	-0.017	-0.376	-0.096	-0.083	-0.099	-0.087	<b>0.412</b>	0.101	0.036	-0.134
PR3	0.031	-0.305	-0.102	-0.156	0.010	-0.017	<b>0.262</b>	0.018	0.064	-0.079
PTP1	0.218	0.047	0.067	0.090	0.079	0.138	0.014	<b>0.689</b>	-0.053	0.116
PTP2	0.252	0.036	0.069	0.147	0.076	0.163	0.044	<b>0.714</b>	-0.158	0.126
PTP3	0.213	0.042	0.097	0.168	0.102	0.148	0.028	<b>0.750</b>	-0.094	0.145
PTP4	0.320	-0.066	0.147	0.023	0.169	0.300	0.127	<b>0.608</b>	-0.110	0.116
PSE1	-0.076	-0.081	-0.100	-0.136	0.015	-0.037	0.062	-0.064	<b>0.794</b>	-0.023
PSE2	-0.027	-0.004	-0.043	-0.110	0.019	-0.032	0.071	-0.116	<b>0.862</b>	-0.025
PSE3	-0.071	-0.046	-0.062	-0.161	0.081	0.033	0.072	-0.108	<b>0.714</b>	-0.009
PSE4	-0.108	-0.060	-0.100	-0.169	-0.015	-0.073	0.081	-0.136	<b>0.859</b>	-0.060
INN1	0.211	0.201	0.143	0.252	0.294	0.295	-0.102	0.178	-0.055	<b>0.751</b>
INN2	0.170	0.190	0.095	0.186	0.187	0.219	-0.125	0.166	0.070	<b>0.700</b>
INN3	0.098	0.290	0.160	0.247	0.188	0.161	-0.207	-0.005	-0.084	<b>0.595</b>
INN4	0.244	0.236	0.195	0.376	0.269	0.295	-0.089	0.180	-0.059	<b>0.793</b>

Note: *Convergent validity*: 24/31 items (77.4%) have a correlation coefficient with the score of their own dimension greater than 0.4; *Divergent validity*: 26/31 items (83.9%) have a correlation coefficient with the score of their own dimension greater than those computed with other scores.

## Reliability and validity for the users sample

Table S9: Reliability for the users sample

Construct	Cronbach's alpha	H	Hj_min
PE	0.77	0.50	0.47
EE	0.77	0.51	0.47
SI	0.40	0.27	0.27 (item SI2)
FC	0.56	0.27	0.13 (item FC4)
HM	0.73	0.51	0.47
PV	0.72	0.49	0.47
HB	0.90	0.83	0.83
PR	0.49	0.22	0.15 (item PR3)
PTP	0.89	0.69	0.61
PSE	0.92	0.79	0.78
SQ	0.76	0.54	0.51
INN	0.87	0.66	0.57

The Cronbach alpha values in Table S9 show that the constructs – except for SI, FC, and PR – have acceptable reliability ( $\geq 0.70$ ). In addition, Loevinger's H coefficients are  $\geq 0.3$  (except for SI, FC and PR), which indicates good scalability. However, the  $H_{item2}^{SI}$ ,  $H_{item4}^{FC}$ , and  $H_{item3}^{PR}$  coefficients are  $< 0.3$ , which means that these items might not be consistent with their respective scale. For other subscales, no  $H_{item}^{scale}$  is  $< 0.3$ . The correlation matrix in Table S10 shows that convergent and divergent validity are largely supported. 32/41 items (78.0%) have a correlation coefficient with the score of their own dimension greater than 0.4, indicating acceptable convergent validity. As for divergent validity, 32/41 items (78.0%) have a correlation coefficient with the score of their own dimension greater than those computed with other scores. It is again clear that the validity issues are mainly related to the hitherto problematic constructs (SI, FC, and PR).

Based on this analysis, we have decided to remove the most problematic items: item FC4 for the FC scale and item PR3 for the PR scale. Item SI2 was retained, because removing



it would have resulted in a scale with only one item<sup>5</sup>. Tables S11 and S12 show reliability, convergent validity, and divergent validity after the removal of items FC4 and PR3. After having dropped these items, the reliability problems are largely solved and the scores in terms of validity have considerably improved<sup>6</sup>.

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<sup>5</sup> A caveat is that the results related to SI need to be interpreted with caution.

<sup>6</sup> Item PR2 was retained, as removing it would have resulted in a scale with only two items.

Table S10: Convergent and divergent validity for the users sample

	PE	EE	SI	FC	HM	PV	HB	PR	PTP	PSE	SQ	INN
PE1	<b>0.566</b>	0.382	0.387	0.255	0.474	0.436	<b>0.675</b>	-0.380	0.226	-0.256	0.370	0.071
PE2	<b>0.630</b>	0.513	0.414	0.310	0.536	0.442	<b>0.644</b>	-0.363	0.241	-0.317	0.405	0.136
PE3	<b>0.539</b>	0.122	0.264	0.256	0.414	0.436	0.352	-0.165	0.146	0.025	0.452	0.205
PE4	<b>0.537</b>	0.350	0.262	0.277	<b>0.544</b>	<b>0.571</b>	0.425	-0.329	0.059	-0.069	0.378	0.043
EE1	0.465	<b>0.553</b>	0.227	0.352	0.476	0.309	0.445	-0.272	0.045	-0.041	0.271	0.105
EE2	0.331	<b>0.644</b>	0.130	0.213	0.479	0.294	0.330	-0.358	-0.036	-0.158	0.265	-0.245
EE3	0.298	<b>0.564</b>	0.232	0.164	0.302	0.291	0.339	-0.318	0.078	-0.133	0.213	-0.149
EE4	0.279	<b>0.542</b>	0.163	0.259	0.296	0.239	0.314	-0.301	-0.091	-0.219	0.399	-0.033
SI1	<b>0.432</b>	<b>0.282</b>	<b>0.251</b>	0.223	<b>0.295</b>	0.159	<b>0.549</b>	-0.185	<b>0.265</b>	-0.155	<b>0.299</b>	0.089
SI2	0.238	0.092	<b>0.251</b>	0.159	<b>0.268</b>	0.148	<b>0.254</b>	0.006	0.227	0.189	0.152	0.091
FC1	0.153	0.090	0.181	<b>0.364</b>	0.164	0.028	0.189	-0.147	0.104	-0.077	0.294	0.266
FC2	0.350	0.315	0.248	<b>0.394</b>	0.225	0.171	<b>0.434</b>	-0.235	0.104	-0.142	<b>0.403</b>	0.317
FC3	0.209	0.137	0.066	<b>0.433</b>	0.188	0.149	0.210	-0.117	0.087	-0.054	0.243	0.248
FC4	<b>0.234</b>	<b>0.266</b>	<b>0.179</b>	<b>0.129</b>	<b>0.385</b>	<b>0.199</b>	0.056	-0.082	-0.039	-0.014	<b>0.224</b>	0.082
HM1	0.627	0.498	0.303	0.296	<b>0.669</b>	0.414	0.426	-0.220	0.043	0.030	0.289	-0.045
HM2	0.453	0.425	0.313	0.389	<b>0.494</b>	0.313	0.374	-0.199	0.170	-0.104	0.185	0.136
HM3	0.474	0.292	0.241	0.246	<b>0.509</b>	0.237	0.306	-0.092	-0.150	0.228	0.134	0.058
PV1	0.323	0.167	-0.029	0.063	0.187	<b>0.502</b>	0.226	-0.347	-0.008	-0.124	0.198	-0.014
PV2	0.536	0.310	0.235	0.160	0.377	<b>0.589</b>	0.390	-0.521	-0.042	-0.063	0.338	-0.067
PV3	<b>0.622</b>	0.402	0.261	0.311	0.401	<b>0.512</b>	0.508	-0.394	-0.007	-0.177	0.495	0.224
HB1	0.672	0.474	0.437	0.356	0.444	0.503	<b>0.820</b>	-0.405	0.259	-0.310	0.487	0.276
HB2	0.612	0.400	0.541	0.225	0.433	0.396	<b>0.820</b>	-0.329	0.228	-0.224	0.374	0.155
PR1	-0.285	-0.326	-0.053	-0.091	-0.132	-0.423	-0.300	<b>0.314</b>	-0.114	0.113	-0.313	0.058
PR2	-0.209	-0.252	0.011	-0.217	-0.103	-0.223	-0.121	<b>0.262</b>	0.188	<b>0.288</b>	-0.364	0.087
PR3	-0.202	-0.156	-0.187	-0.104	-0.096	-0.220	-0.270	<b>0.187</b>	-0.036	0.057	-0.395	0.048
PR4	-0.309	-0.279	-0.092	-0.097	-0.205	-0.442	-0.296	<b>0.393</b>	-0.059	0.256	-0.236	-0.023
PTP1	0.165	-0.046	0.249	0.059	-0.016	-0.026	0.214	0.013	<b>0.842</b>	-0.062	0.026	0.161
PTP2	0.126	-0.060	0.252	0.062	-0.019	-0.032	0.147	0.008	<b>0.766</b>	-0.139	-0.079	0.129
PTP3	0.108	-0.017	0.285	0.024	0.041	-0.011	0.177	0.079	<b>0.786</b>	-0.072	-0.097	0.111
PTP4	0.332	0.121	0.294	0.130	0.125	-0.012	0.347	-0.100	<b>0.637</b>	-0.163	0.149	0.072
PSE1	-0.169	-0.258	0.034	-0.121	0.025	-0.130	-0.283	0.255	-0.093	<b>0.808</b>	-0.168	-0.017
PSE2	-0.144	-0.171	-0.011	-0.067	0.081	-0.147	-0.278	0.275	-0.093	<b>0.849</b>	-0.173	0.060
PSE3	-0.117	-0.075	0.072	-0.076	0.091	-0.077	-0.138	0.227	-0.149	<b>0.793</b>	-0.105	0.080
PSE4	-0.262	-0.187	-0.042	-0.102	-0.011	-0.151	-0.350	0.272	-0.170	<b>0.838</b>	-0.149	0.020
SQ1	0.405	0.271	0.258	0.389	0.145	0.429	0.392	-0.458	0.106	-0.236	<b>0.611</b>	0.122
SQ2	0.511	0.348	0.289	0.331	0.285	0.320	0.370	-0.416	-0.014	-0.054	<b>0.582</b>	0.077
SQ3	0.378	0.276	0.180	0.332	0.189	0.332	0.355	-0.392	-0.058	-0.136	<b>0.536</b>	0.114
INN1	0.116	-0.086	0.131	0.276	0.137	-0.021	0.162	0.166	0.122	0.110	0.064	<b>0.744</b>
INN2	0.094	-0.091	-0.031	0.220	-0.032	0.097	0.182	-0.041	0.047	0.025	0.111	<b>0.603</b>
INN3	0.159	-0.102	0.154	0.289	0.058	0.079	0.226	0.028	0.117	-0.006	0.147	<b>0.748</b>
INN4	0.127	-0.139	0.148	0.315	0.065	0.050	0.193	0.090	0.185	0.034	0.105	<b>0.807</b>

Table S11: Reliability for the users sample after the removal of FC4 and PR3

Construct	Cronbach's alpha	H	Hj min
PE	0.77	0.50	0.47
EE	0.77	0.51	0.47
SI	0.40	0.27	0.27 (item SI2)
FC	0.66	0.47	0.44
HM	0.73	0.51	0.47
PV	0.72	0.49	0.47
HB	0.90	0.83	0.83
PR	0.45	0.26	0.21 (item PR2)
PTP	0.89	0.69	0.61
PSE	0.92	0.79	0.78
SQ	0.76	0.54	0.51
INN	0.87	0.66	0.57

Table S12: Convergent and divergent validity for the users sample after the removal of FC4 and PR3

	PE	EE	SI	FC	HM	PV	HB	PR	PTP	PSE	SQ	INN
PE1	<b>0.566</b>	0.382	0.387	0.255	0.474	0.436	0.675	-0.364	0.226	-0.256	0.370	0.071
PE2	<b>0.630</b>	0.513	0.414	0.266	0.536	0.442	0.644	-0.354	0.241	-0.317	0.405	0.136
PE3	<b>0.539</b>	0.122	0.264	0.228	0.414	0.436	0.352	-0.172	0.146	0.025	0.452	0.205
PE4	<b>0.537</b>	0.350	0.262	0.179	0.544	0.571	0.425	-0.280	0.059	-0.069	0.378	0.043
EE1	0.465	<b>0.553</b>	0.227	0.318	0.476	0.309	0.445	-0.234	0.045	-0.041	0.271	0.105
EE2	0.331	<b>0.644</b>	0.130	0.100	0.479	0.294	0.330	-0.374	-0.036	-0.158	0.265	-0.245
EE3	0.298	<b>0.564</b>	0.232	0.139	0.302	0.291	0.339	-0.309	0.078	-0.133	0.213	-0.149
EE4	0.279	<b>0.542</b>	0.163	0.163	0.296	0.239	0.314	-0.310	-0.091	-0.219	0.399	-0.033
SI1	0.432	0.282	<b>0.251</b>	0.133	0.295	0.159	0.549	-0.170	0.265	-0.155	0.299	0.089
SI2	0.238	0.092	<b>0.251</b>	0.171	0.268	0.148	0.254	0.077	0.227	0.189	0.152	0.091
FC1	0.153	0.090	0.181	<b>0.466</b>	0.164	0.028	0.189	-0.107	0.104	-0.077	0.294	0.266
FC2	0.350	0.315	0.248	<b>0.458</b>	0.225	0.171	0.434	-0.223	0.104	-0.142	0.403	0.317
FC3	0.209	0.137	0.066	<b>0.496</b>	0.188	0.149	0.210	-0.091	0.087	-0.054	0.243	0.248
HM1	0.627	0.498	0.303	0.147	<b>0.669</b>	0.414	0.426	-0.245	0.043	0.030	0.289	-0.045
HM2	0.453	0.425	0.313	0.294	<b>0.494</b>	0.313	0.374	-0.196	0.170	-0.104	0.185	0.136
HM3	0.474	0.292	0.241	0.143	<b>0.509</b>	0.237	0.306	-0.046	-0.150	0.228	0.134	0.058
PV1	0.323	0.167	-0.029	0.048	0.187	<b>0.502</b>	0.226	-0.345	-0.008	-0.124	0.198	-0.014
PV2	0.536	0.310	0.235	0.115	0.377	<b>0.589</b>	0.390	-0.488	-0.042	-0.063	0.338	-0.067
PV3	0.622	0.402	0.261	0.207	0.401	<b>0.512</b>	0.508	-0.394	-0.007	-0.177	0.495	0.224
HB1	0.672	0.474	0.437	0.361	0.444	0.503	<b>0.820</b>	-0.379	0.259	-0.310	0.487	0.276
HB2	0.612	0.400	0.541	0.293	0.433	0.396	<b>0.820</b>	-0.262	0.228	-0.224	0.374	0.155
PR1	-0.285	-0.326	-0.053	-0.069	-0.132	-0.423	-0.300	<b>0.310</b>	-0.114	0.113	-0.313	0.058
PR2	-0.209	-0.252	0.011	-0.168	-0.103	-0.223	-0.121	<b>0.238</b>	0.188	0.288	-0.364	0.087
PR4	-0.309	-0.279	-0.092	-0.120	-0.205	-0.442	-0.296	<b>0.407</b>	-0.059	0.256	-0.236	-0.023
PTP1	0.165	-0.046	0.249	0.110	-0.016	-0.026	0.214	0.022	<b>0.842</b>	-0.062	0.026	0.161
PTP2	0.126	-0.060	0.252	0.077	-0.019	-0.032	0.147	-0.020	<b>0.766</b>	-0.139	-0.079	0.129
PTP3	0.108	-0.017	0.285	0.056	0.041	-0.011	0.177	0.111	<b>0.786</b>	-0.072	-0.097	0.111
PTP4	0.332	0.121	0.294	0.182	0.125	-0.012	0.347	-0.067	<b>0.637</b>	-0.163	0.149	0.072
PSE1	-0.169	-0.258	0.034	-0.091	0.025	-0.130	-0.283	0.280	-0.093	<b>0.808</b>	-0.168	-0.017
PSE2	-0.144	-0.171	-0.011	-0.082	0.081	-0.147	-0.278	0.301	-0.093	<b>0.849</b>	-0.173	0.060
PSE3	-0.117	-0.075	0.072	-0.099	0.091	-0.077	-0.138	0.217	-0.149	<b>0.793</b>	-0.105	0.080

PSE4	-0.262	-0.187	-0.042	-0.161	-0.011	-0.151	-0.350	0.288	-0.170	<b>0.838</b>	-0.149	0.020
SQ1	0.405	0.271	0.258	0.389	0.145	0.429	0.392	-0.362	0.106	-0.236	<b>0.611</b>	0.122
SQ2	0.511	0.348	0.289	0.309	0.285	0.320	0.370	-0.325	-0.014	-0.054	<b>0.582</b>	0.077
SQ3	0.378	0.276	0.180	0.278	0.189	0.332	0.355	-0.369	-0.058	-0.136	<b>0.536</b>	0.114
INN1	0.116	-0.086	0.131	0.248	0.137	-0.021	0.162	0.167	0.122	0.110	0.064	<b>0.744</b>
INN2	0.094	-0.091	-0.031	0.305	-0.032	0.097	0.182	-0.057	0.047	0.025	0.111	<b>0.603</b>
INN3	0.159	-0.102	0.154	0.298	0.058	0.079	0.226	0.018	0.117	-0.006	0.147	<b>0.748</b>
INN4	0.127	-0.139	0.148	0.330	0.065	0.050	0.193	0.088	0.185	0.034	0.105	<b>0.807</b>

Note: *Convergent validity*: 35/39 items (89.7%) have a correlation coefficient with the score of their own dimension greater than 0.4.; *Divergent validity*: 32/39 items (82.1%) have a correlation coefficient with the score of their own dimension greater than those computed with other scores.