Apêndice Metodológico Adicional: Introdução

Durante a defesa desta tese, um dos membros da banca sugeriu que, além da rotação Varimax originalmente empregada na análise fatorial exploratória (AFE), fosse realizado um teste adicional utilizando a rotação Oblimin. Essa recomendação visava avaliar a robustez das análises, considerando que a rotação Oblimin permite a existência de correlações entre os fatores, enquanto a Varimax assume ortogonalidade. Embora não houvesse a necessidade de alterar os resultados apresentados no corpo principal da tese, foi solicitado que a comparação entre os métodos fosse incluída como apêndice para maior transparência metodológica.

Atendendo à sugestão, realizei novamente a AFE para casos discutidos no capítulo 2, considerando a solução de quatro fatores. Os resultados obtidos com a rotação Oblimin mostraram-se altamente similares aos apresentados com a rotação Varimax, confirmando a robustez das interpretações descritas no texto principal. Essa similaridade é esperada em contextos como o presente, onde as estruturas fatoriais apresentam alta consistência, independentemente do método de rotação utilizado.

Este apêndice apresenta uma comparação detalhada dos resultados, que estão dispostos nas tabelas subsequentes. Tal análise evidencia que as variações observadas entre as duas abordagens são mínimas e não alteram as conclusões ou interpretações alcançadas na tese.

Com mais fatores (Varimax), acesse este links apontados ao fim desse documento.

Em suma: abaixo, comparam-se resultados da AFE com 4 fatores (WVS): rotação Oblimin (primeiro) e Varimax (segundo). Nota-se que não há diferenças significativas, confirmando a robustez dos resultados.

caso ARGENTINA (ARG) ONDA 2

ROTAÇÃO TIPO OBLIMIN

Loadings:				
	MR1	MR4	MR2	MR3
в006		0.125		
C001	-0.171			
C002		0.133		
E018	-0.351	-0.108		
E034		0.201		
E035			-0.258	0.116
E036			0.783	
E039	0.111	0.116	0.520	
F028		0.632		
F034	-0.188	0.371		0.210
F063		0.569		
F116				0.446
F118	0.648	0.101		
F120	0.486	-0.254		

F121 0.578 F141 0.637 G006 0.191 0.111 -0.169 MR1 MR4 MR2 MR3 SS loadings 1.210 1.085 0.997 0.708 Proportion Var 0.071 0.064 0.059 0.042 Cumulative Var 0.071 0.135 0.194 0.235

TIPO> VARIMAX

Load	ings:			
	MR1	MR4	MR2	MR3
в006		0.129		
C001	-0.177	0.104		
C002		0.132		
E018	-0.324			
E034		0.188		
E035			-0.254	
E036	-0.157		0.765	0.127
E039			0.517	
F028		0.621		
F034	-0.209	0.397		0.160
F063	-0.126	0.562	0.135	
F116				0.438
F118	0.613			
F120	0.522	-0.356		
F121	0.588	-0.203		
F141	0.122			0.641
G006	-0.105	0.202	0.122	-0.169
		ME	21 MR2	1 MR2

MR1 MR4 MR2 MR3 SS loadings 1.256 1.163 1.071 0.719

ARG ONDA 3:

OBLIMIN:

Loadi	ings:			
	MR1	MR2	MR4	MR3
в008			0.265	
C001		-0.171		
C002			0.224	
E018		-0.123	0.404	
E034			0.333	
E035	0.104		0.116	-0.231
E036				0.394
E039				0.507
F028	0.481	-0.198		-0.100
F034	0.829			
F063	0.683		0.117	
F116			-0.325	0.187
F118		0.537	-0.176	
F120		0.656		
F121		0.767		

MR1 MR2 MR4 MR3 SS loadings 1.435 1.407 0.710 0.539 Proportion Var 0.090 0.088 0.044 0.034 Cumulative Var 0.090 0.178 0.222 0.256

VARIMAX:

Load	inas:	-		
	_	MR2	MR4	MR3
в008			0.235	
C001	-0.185			
C002	-0.116		0.235	
E018	-0.220	0.161	0.420	
E034			0.322	-0.116
E035		0.115	0.117	-0.246
E036				0.389
E039				0.508
F028	-0.281	0.473		-0.119
F034	-0.115	0.776	0.139	
F063	-0.228	0.680	0.268	
F116	0.101		-0.302	0.221
F118	0.571	-0.151	-0.250	
F120	0.654	-0.145	-0.114	
F121	0.731			
G006	-0.111	0.178	0.380	

MR1 MR2 MR4 MR3 SS loadings 1.558 1.437 0.818 0.567 Proportion Var 0.097 0.090 0.051 0.035 Cumulative Var 0.097 0.187 0.238 0.274

ARG ONDA 4: OBLIMIN:

> pfa4\$loadings

G006 0.359

Loadings: MR1MR2 MR3 MR4 B008 C001 -0.140 0.139 0.321 C002 0.121 0.204 E018 0.262 -0.173 -0.105 0.103 E034 0.184 0.225 E035 0.104 0.121 -0.138 0.146 E036 0.424 E039 0.495 F028 0.424 -0.154 -0.234 F034 0.651 F063 0.839 F116 -0.175 0.100 F118 0.695 -0.143 F120 -0.228 0.472 F121 0.729

MR1 MR2 MR3 MR4 SS loadings 1.640 1.349 0.507 0.339 Proportion Var 0.102 0.084 0.032 0.021 Cumulative Var 0.102 0.187 0.218 0.240

VARIMAX:

> arg4fact4\$loadings

Loadi	ings:			
	MR1	MR2	MR3	MR4
в008			-0.117	
C001				0.368
C002				0.248
E018	0.281	-0.152	-0.131	0.142
E034	0.133			0.238
E035		0.141	-0.181	
E036			0.404	0.122
E039			0.466	0.163
F028	0.517	-0.212	0.105	
F034	0.658			
F063	0.805			0.165
F116	-0.218	0.114		
F118	-0.153	0.624		-0.273
F120	-0.373	0.467		
F121	-0.185	0.699		
G006	0.351			0.127

MR1 MR2 MR3 MR4 SS loadings 1.816 1.212 0.482 0.470 Proportion Var 0.113 0.076 0.030 0.029 Cumulative Var 0.113 0.189 0.219 0.249

ARG ONDA 5 OBLIMIN:

	T1.1T14			
Loadi	ngs:			
	MR1	MR3	MR2	MR4
в008	-0.108			-0.164
C001		-0.113		0.427
C002				0.435
E018			0.999	
E035				
E036				0.148
E039				0.104
F028	0.468	-0.156		
F034	0.753			
F063	0.837			
F116	-0.150	0.164		
F118		0.745		
F120	-0.191	0.443		
F121		0.722		0.112
G006	0.202		0.168	

MR1 MR3 MR2 MR4 SS loadings 1.614 1.353 1.062 0.467 Proportion Var 0.108 0.090 0.071 0.031 Cumulative Var 0.108 0.198 0.269 0.300

VARIMAX:

> arg5fact4\$loadings

Loadi	ngs:			
	MR1	MR2	MR3	MR4
в008				-0.177
C001		-0.152	0.138	0.413
C002				0.418
E018	0.239		0.944	-0.213
E035				
E036				0.154

SS loadings 1.742 1.407 1.074 0.501 Proportion Var 0.116 0.094 0.065 0.033 Cumulative Var 0.116 0.210 0.275 0.308

ARG ONDA 6 OBLIMIN:

Loadi		_	_	
	MR1	MR2	MR3	MR4
в008	-0.119	-0.131		
C001		-0.237	0.235	
C002	0.146	-0.170		
E018	0.183		-0.258	
E035		-0.128		-0.466
E036				0.370
E039			0.111	0.386
F028	0.506	-0.224		0.180
F034	0.760			
F063	0.818			
F116			0.695	
F118		0.768		
F120	-0.151	0.539	0.176	
F121		0.660	-0.138	
G006	0.135		-0.110	

MR1 MR2 MR3 MR4 SS loadings 1.628 1.498 0.701 0.557 Proportion Var 0.109 0.100 0.047 0.037 Cumulative Var 0.109 0.208 0.255 0.292

VARIMAX:

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Loadi	Loadings:					
	MR1	MR2	MR3	MR4		
в008		-0.115				
C001		-0.240	0.215			
C002	0.184	-0.185		-0.121		
E018	0.202		-0.286			
E035		-0.130		-0.488		
E036				0.388		
E039			0.126	0.394		
F028	0.555	-0.275				
F034	0.729			-0.189		
F063	0.788		-0.139	-0.164		
F116			0.691			
F118	-0.134	0.716	0.122	0.115		
F120	-0.287	0.513	0.249	0.137		
F121	-0.216	0.645		0.131		
G006	0.136		-0.121			

MR1 MR2 MR3 MR4 Ss loadings 1.716 1.415 0.741 0.691 Proportion Var 0.114 0.094 0.049 0.046 Cumulative Var 0.114 0.209 0.258 0.304 -----

ARG ONDA 7 OBLIMIN:

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Loadings	S:			
	MR2	MR1	MR3	MR4
в008			0.209	
C001	-0.101		0.647	
C002			0.164	
E018	0.154	0.194		-0.260
E034	0.138			-0.197
E035		0.144		0.131
E036			-0.100	0.499
E039				0.453
F028	-0.226	0.432	0.101	
F034		0.689	0.122	
F063		0.845		
F116	0.135		0.343	0.167
F118	0.600			
F120	0.553	-0.110	0.218	0.225
F121	0.828			
F144_02	0.418		0.145	
G006		0.192	-0.265	

MR2 MR1 MR3 MR4 SS loadings 1.663 1.508 0.809 0.692 Proportion Var 0.098 0.089 0.048 0.041 Cumulative Var 0.098 0.186 0.234 0.275

VARIMAX:

> arg7fact4 <- fa(arg07d,nfactors=4,rotate = "varimax")</pre>

> arg7fact4\$loadings

Loadings:

	MR1	MR3	MR2	MR4
в008			0.228	
C001	-0.107		0.643	
C002			0.152	
E018		0.168		-0.276
E034				-0.207
E035		0.146		0.131
E036				0.486
E039	0.110			0.438
F028	-0.299	0.469		
F034		0.673		-0.106
F063	-0.146	0.814	-0.211	
F116	0.171		0.351	0.170
F118	0.594	-0.168	-0.124	
F120	0.604	-0.188	0.217	0.174
F121	0.790	-0.127	-0.151	-0.167
F144_02	0.405		0.106	
G006		0.162	-0.306	-0.105

MR1 MR3 MR2 MR4 SS loadings 1.690 1.510 0.868 0.690 Proportion Var 0.099 0.089 0.051 0.041 Cumulative Var 0.099 0.188 0.239 0.280 -----

BOLÍVIA ONDA 7 OBLIMIN:

> pf1.2\$loadings

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LUG	ıu ı	ngs	

	MR1	MR3	MR2	MR4
в008				-0.281
C001				-0.180
C002				
E018		0.211		0.136
E034		0.105		
E035				0.159
E036			0.101	0.149
E039			0.998	
F028		0.484		-0.108
F034		0.578		
F063		0.629		0.112
F116	0.354			-0.141
F118	0.587			0.151
F120	0.682			
F121	0.641			
F144_02	0.368			
G006		0.123		0.241

MR1 MR3 MR2 MR4 SS loadings 1.491 1.050 1.020 0.322 Proportion Var 0.088 0.062 0.060 0.019 Cumulative Var 0.088 0.149 0.209 0.228

VARIMAX:

> b7fact4\$loadings

Loadings:

	<i>-</i>			
	MR1	MR3	MR2	MR4
в008				-0.282
C001				-0.179
C002				
E018		0.204		0.140
E034		0.113		
E035		-0.104		0.158
E036			0.108	0.147
E039			0.997	
F028	-0.117	0.489		
F034		0.568		
F063	-0.141	0.617		0.128
F116	0.361			-0.122
F118	0.569	-0.134		0.182
F120	0.670			
F121	0.634	-0.147		
F144_02	0.366	-0.106		
G006		0.108		0.243

MR1 MR3 MR2 MR4 SS loadings 1.490 1.089 1.018 0.326 Proportion Var 0.088 0.064 0.060 0.019 Cumulative Var 0.088 0.152 0.212 0.231

BRASIL (BRA) ONDA 2

OBLIMIN:

Load	ings:			
	MR1	MR4	MR2	MR3
в006	-0.124	0.249		0.177
C001		0.131	-0.131	
C002				
E018		0.447		
E034		0.384		
E035	0.135			
E036				0.528
E039				0.508
F028	-0.207		0.263	
F034			0.554	
F063			0.629	
F116		-0.127	-0.115	
F118	0.596			
F120	0.504		-0.120	
F121	0.614			
F141		-0.409		
G006		0.404		

MR1 MR4 MR2 MR3 SS loadings 1.091 0.813 0.851 0.596 Proportion Var 0.064 0.048 0.050 0.035 Cumulative Var 0.064 0.112 0.162 0.197

VARIMAX:

- > br2fact4 <- fa(br2d,nfactors=4,rotate = "varimax")</pre>
- > br2fact4\$loadings

Loadi	Loadings:					
	MR1	MR2	MR4	MR3		
в006	-0.173		0.284	0.206		
C001	-0.116		0.134			
C002						
E018	-0.125		0.426			
E034			0.358			
	0.121					
E036				0.523		
E039				0.503		
F028	-0.228	0.316	0.195			
F034		0.547	0.117			
F063		0.617	0.107			
F116		-0.147	-0.134			
F118	0.540					
F120	0.496	-0.220	-0.234			
F121	0.590		-0.228	-0.102		
F141	0.182	-0.202	-0.428			
G006		0.177	0.375			

MR1 MR2 MR4 MR3 SS loadings 1.055 0.960 1.009 0.617 Proportion Var 0.062 0.056 0.055 0.036 Cumulative Var 0.062 0.119 0.174 0.210

BRA ONDA 3 OBLIMIN:

> pfd\$loadings

Loadings:				
MR1	MR2	MR3	MR4	
воов 0.138		0 600		
C001		0.690		
C002		0.140		
E018 -0.197			0.126	
E034			0.415	
E035			0.178	
E036			0.155	
E039		-0.128		
F028 -0.183				
F034	0.848			
F063 -0.188	0.312			
F116		-0.147		
F118 0.571				
F120 0.618				
F121 0.620				
G006 -0.134		0.102	0.234	
	M	R1 MR2	MR3	MR4
SS loadings	1.2	60 0.977	0.561	0.309
Proportion	var 0.0	79 0.061	0.035	0.019
Cumulative	Var 0.0	79 0.140	0.175	0.194

VARIMAX: > br3fact4\$loadings

Loadir	-					
	MR1	MR2	MR3	MR4		
в008	0.138					
C001	0.125		0.674			
C002			0.132			
E018 -	-0.178	0.166		0.138		
E034				0.412		
E035				0.169		
E036				0.157		
E039 -	-0.107		-0.124			
F028 -	-0.113	0.396				
F034	0.155	0.830				
F063 -	-0.130	0.369				
F116			-0.143			
F118	0.564	-0.104	0.105			
F120	0.563	-0.258				
F121	0.603	-0.155				
G006 -	-0.104	0.117		0.226		
			мр1	MR2	MD 2	MR4
CC] 0.	dinac	1 10	–			MICH
	_		3 1.138			
•			72 0.071			
Cumu i a	ative v	ar 0.07	2 0.143	0.1//	0.197	

> pfd\$loadings Loadings:

BRA ONDA 5 **OBLIMIN:**

> MR2 MR1 MR4 MR3

в008				0.117
C001			0.439	
C002			0.139	
E018	0.146			0.107
E035				0.199
E036				0.481
E039				0.229
F028	0.479		0.220	
F034	0.666			
F063	0.264	-0.255	-0.157	
F116		0.178	0.111	0.259
F118		0.356	-0.379	
F120		0.627		
F121	-0.107	0.273	-0.282	
G006		-0.158		

MR2 MR1 MR4 MR3 SS loadings 0.792 0.736 0.551 0.428 Proportion Var 0.053 0.049 0.037 0.029 Cumulative Var 0.053 0.102 0.139 0.167

VARIMAX:

br5fact4\$loadings

Load	Loadings:					
	MR1	MR4	MR2	MR3		
в008				0.119		
C001			-0.422			
C002			-0.135			
E018	-0.122	0.169		0.104		
E035				0.198		
E036				0.477		
E039				0.233		
F028		0.483	-0.173			
F034	-0.103	0.647	0.132			
F063	-0.275	0.280	0.167			
F116	0.146			0.261		
F118	0.414		0.397			
F120	0.618					
F121	0.335	-0.168	0.283			
G006	-0.153					

MR1 MR4 MR2 MR SS loadings 0.825 0.816 0.535 0.432 Proportion Var 0.055 0.054 0.036 0.029 Cumulative Var 0.055 0.109 0.145 0.174

BRA ONDA 6 OBLIMIN:

> pfd\$loadings

	J -			
	MR1	MR2	MR4	MR3
в008			-0.120	
C001				0.434
C002				0.380
E018			0.271	
E035			0.101	0.105
E036		0.103	0.164	0.201
E039				0.222

```
F028 0.301 -0.166

F034 0.978

F063 0.523

F116 0.126 -0.196 0.133

F118 0.570

F120 0.302 -0.378

F121 0.652

G006 0.175
```

MR1 MR2 MR4 MR3 SS loadings 1.068 0.917 0.637 0.477 Proportion Var 0.071 0.061 0.042 0.032 Cumulative Var 0.071 0.132 0.175 0.207

VARIMAX:

- > br6fact4 <- fa(br6d,nfactors=4,rotate = "varimax")</pre>
- > br6fact4\$loadings

Loadings:					
	MR1	MR2	MR3	MR4	
в008			-0.149		
C001		-0.126	-0.218	0.393	
C002				0.366	
E018			0.242	0.109	
E035				0.115	
E036				0.210	
E039				0.207	
F028	0.316	-0.211	0.152		
F034	0.939		0.274		
F063	0.113		0.533		
F116		0.149	-0.213		
F118		0.575			
F120		0.404	-0.332		
F121		0.642			
G006			0.188		

MR1 MR2 MR3 MR4 SS loadings 1.011 1.001 0.717 0.435 Proportion Var 0.067 0.067 0.048 0.029 Cumulative Var 0.067 0.134 0.182 0.211

BRA ONDA 7 OBLIMIN

> pfd\$loadings

	MR1	MR2	MR3	MR4
в008			0.164	
C001		-0.102	0.423	
C002	0.108		0.252	
E018				0.337
E034				0.190
E035	-0.101		0.124	0.410
E036			0.159	0.173
E039			0.280	
F028	0.432	-0.208		
F034	0.727			
F063	0.538		-0.149	0.104
F116		0.150	0.274	-0.110
F118		0.510	-0.108	-0.115
F120	-0.272	0.307	0.103	-0.159
F121		0.772		
F144_02		0.233	0.231	

MR1 MR2 MR3 MR4 SS loadings 1.127 1.096 0.604 0.509 Proportion Var 0.066 0.064 0.036 0.030 Cumulative Var 0.066 0.131 0.166 0.196

VARIMAX:

> br7fact4 <- fa(br7d,nfactors=4,rotate = "varimax")</pre>

> br7fact4\$loadings

Loadings	s:			
	MR2	MR1	MR3	MR4
в008			0.182	
C001			0.427	
C002			0.239	
E018		0.110		0.360
E034				0.193
E035			0.169	0.355
E036			0.172	0.132
E039			0.281	
F028	-0.249	0.433		
F034		0.689		0.105
F063	-0.141	0.544	-0.185	0.238
F116	0.193		0.236	-0.163
F118	0.518	-0.135	-0.178	
F120	0.374	-0.323		-0.225
F121	0.748			
F144_02	0.250		0.200	
G006			-0.142	0.332

MR2 MR1 MR3 MR4 SS loadings 1.162 1.135 0.616 0.585 Proportion Var 0.068 0.067 0.036 0.034 Cumulative Var 0.068 0.135 0.171 0.206

CHILE (CHI) ONDA 2 OBLIMIN:

> pfd\$loadings

Load	_	2	2	4
	MR1	MR2	MR3	MR4
в006				0.304
C001				0.171
C002				
E018				0.256
E034			-0.131	0.111
E035	0.152	0.127	-0.127	
E036			0.394	
E039			0.466	
F028		0.430		
F034		0.689		-0.108
F063		0.638		0.113
F116	0.109		0.246	0.124
F118	0.632			
F120	0.714			
F121	0.538			-0.130
F141	0.334	-0.131	0.186	-0.174
G006		0.227	-0.120	0.133

MR1 MR2 MR3 MR4 SS loadings 1.368 1.184 0.543 0.318 Proportion Var 0.080 0.070 0.032 0.019

- VARIMAX:
 > ch2fact4 <- fa(ch2d,nfactors=4,rotate = "varimax")</pre>
- > ch2fact4\$loadings

Loadi	ngs:					
	MR1	MR2	MR3	MR4		
в006				0.282		
C001				0.161		
C002						
E018	-0.140	0.136		0.255		
E034		0.126	-0.134	0.115		
E035	0.119	0.118	-0.116			
E036			0.395			
E039			0.461			
F028		0.441				
F034		0.654				
	-0.158	0.652		0.146		
F116			0.240	0.106		
	0.601					
	0.695					
		-0.181		-0.161		
			0.203			
G006	-0.134	0.276	-0.118	0.147		
			MR1	MR2	MR3	MR4
ss lo	adinas	1.43	1.289	0.542	0.320	
	_		33 0.076			
•			33 0.159			

CHI ONDA 3 **OBLIMIN:**

> pfd\$loadings

_				
Loa	rh	nn	ıc	•
LUG	u	114		

Luau	nigs.			
	MR1	MR2	MR3	MR4
в008		-0.116		
C001	-0.162	-0.317	0.139	0.311
C002	-0.158	-0.221		0.185
E018		0.280		-0.188
E034		0.297	-0.103	
E035				
E036			-0.103	0.304
E039		-0.262		0.226
F028	-0.116	-0.160	0.527	-0.181
F034		0.135	0.725	
F063		0.553	0.249	
F116				0.519
F118	0.587			
F120	0.702			
F121	0.671		-0.103	
G006		0.418		-0.132

MR1 MR2 MR3 MR4 SS loadings 1.386 0.950 0.952 0.645 Proportion Var 0.087 0.059 0.059 0.040 Cumulative Var 0.087 0.146 0.206 0.246

VARIMAX:

```
Loadings:
             MR2
                    MR3
                           MR4
      \mathsf{MR1}
в008
             0.136 -0.134
C001 -0.148 0.468
                           0.131
C002 -0.143 0.308
E018
            -0.354
E034
            -0.250
                           0.122
E035
E036
                           0.286
E039
             0.366
                    0.475 -0.266
F028 -0.178
F034
                    0.759
F063 -0.119 -0.471 0.452 0.137
F116 0.115 0.325
                           0.425
F118 0.570
F120 0.682
F121 0.672
                   -0.186 0.138
G006 -0.105 -0.437 0.231
                     MR1
                          MR2 MR3
             1.365 1.194 1.128 0.428
ss loadings
Proportion Var 0.085 0.075 0.071 0.027
Cumulative var 0.085 0.160 0.231 0.257
```

CHI ONDA 4 OBLIMIN:

> pfd\$loadings

Loadings:

	MR1	MR2	MR4	MR3
в008	-0.101		-0.106	0.209
C001		-0.233	0.234	0.171
C002			0.239	0.146
E018	0.175		-0.266	
E034				-0.138
E035				0.171
E036				0.467
E039				0.402
F028	0.551	-0.154		
F034	0.756			
F063	0.488		-0.212	
F116			0.347	-0.112
F118		0.693	0.128	
F120	-0.165	0.422	0.500	
F121	-0.203	0.587		0.131
G006	0.287		-0.323	-0.176

MR1 MR2 MR4 MR3 SS loadings 1.316 1.120 0.749 0.618 Proportion Var 0.082 0.070 0.047 0.039 Cumulative Var 0.082 0.152 0.199 0.238

VARIMAX:

Louaii	.90.			
	MR2	MR1	MR4	MR3
в008	-0.125		-0.173	0.180
C001		-0.293	0.209	0.240
C002		-0.111	0.213	0.186
E018	0.128		-0.259	
E034				-0.140
E035				0.166
E036		0.119		0.469

```
E039
                          0.403
F028 0.539 -0.101
                          0.105
F034 0.771
F063 0.460
                  -0.203
F116 0.112
                   0.398
            0.686
F118
            0.251 0.533
F120
F121 -0.135 0.587
G006 0.235
                  -0.290 -0.195
                MR2
                      MR1
                            MR4
                                  MR3
ss loadings
              1.232 1.020 0.776 0.626
Proportion Var 0.077 0.064 0.048 0.039
```

Cumulative Var 0.077 0.141 0.189 0.228

CHI ONDA 5 OBLIMIN:

> pfd\$loadings

Loadings:

	MR1	MR2	MR3	MR4
в008				
C001			0.359	
C002			0.683	
E018			0.104	-0.247
E035	0.140			0.161
E036				0.163
E039				0.364
F028	0.569			0.235
F034	0.716			
F063	0.662			-0.177
F116		0.189		0.330
F118		0.698		
F120	-0.134	0.485		0.141
F121		0.694		
G006	0.131			-0.142

MR1 MR2 MR3 MR4 SS loadings 1.358 1.293 0.618 0.489 Proportion Var 0.091 0.086 0.041 0.033 Cumulative Var 0.091 0.177 0.218 0.251

VARIMAX:

> ch5fact4 <- fa(ch5d,nfactors=4,rotate = "varimax")</pre>

> ch5fact4\$loadings

	MR1	MR2	MR3	MR4
в008				
C001			0.364	
C002			0.677	
E018	0.100			-0.243
E035	0.126			0.156
E036				0.164
E039	0.112	-0.117		0.362
F028	0.573	-0.167		0.227
F034	0.706	-0.132		
F063	0.648			-0.188
F116		0.193		0.329
F118		0.675		

```
F120 -0.216 0.501
                  0.140
F121 -0.143 0.689
G006 0.146 -0.109
                  -0.145
               MR1 MR2 MR3
Cumulative Var 0.093 0.181 0.222 0.254
```

CHI ONDA 6 **OBLIMIN:**

> pfd\$loadings

Loadi	ngs:
	MR1
R008	

	MR1	MR2	MR4	MR3
в008				0.181
C001				0.483
C002				0.461
E018			-0.378	
E035		-0.160	0.179	0.164
E036	-0.105	0.153	-0.113	
E039			0.308	0.248
F028	0.648			
F034	0.877			
F063	0.511		-0.341	
F116			0.395	
F118		0.753		
F120		0.506	0.176	
F121		0.638	-0.135	
G006	0.168	-0.133	-0.197	

MR1 MR2 MR4 SS loadings 1.513 1.313 0.663 0.590 Proportion Var 0.101 0.088 0.044 0.039 Cumulative Var 0.101 0.188 0.233 0.272

VARIMAX:

> ch6fact4\$loadings

Loadings:	

Loud	11193.			
	MR1	MR2	MR3	MR4
в008			0.193	
C001			0.482	
C002			0.452	
E018	0.151			0.371
E035		-0.182	0.203	-0.147
E036		0.182		
E039			0.293	-0.269
F028	0.649	-0.170	0.146	0.159
F034	0.822	-0.195	0.138	
F063	0.567			0.387
F116				-0.384
F118		0.729		
F120	-0.162	0.492	-0.150	-0.221
F121		0.648		
G006	0.220	-0.148		0.219

MR1 MR2 MR3 SS loadings 1.553 1.371 0.687 0.678 Proportion Var 0.104 0.091 0.046 0.045 Cumulative var 0.104 0.195 0.241 0.286

CHI ONDA 7 **OBLIMIN:**

> pfd\$loadings

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Load	111	ıy	э.	

	MR1	MR3	MR2	MR4
в008				0.821
C001		0.183	0.355	
C002		0.230	0.257	
E018	0.188	0.201	-0.206	-0.217
E034			-0.195	0.204
E035		0.151	0.347	0.140
E036				
E039			0.452	
F028	-0.145	0.603		
F034		0.766		
F063	0.278	0.500	-0.206	0.116
F116			0.546	0.174
F118	0.699			
F120	0.465		0.386	-0.137
F121	0.847			
F144_02	0.315		0.241	
G006		0.111	-0.404	-0.120

MR1 MR3 MR2 MR4 SS loadings 1.691 1.388 1.318 0.891 Proportion Var 0.099 0.082 0.078 0.052 Cumulative Var 0.099 0.181 0.259 0.311

VARIMAX:

> ch7fact4\$loadings

Loadings:

	MR1	MR2	MR3	MR4
в008		0.407		0.718
C001		0.305	0.105	-0.125
C002		0.269	0.166	
E018	0.125	-0.308	0.252	-0.124
E034				0.233
E035		0.393		
E036				
E039	0.176	0.421	-0.140	
F028	-0.236	0.104	0.577	
F034	-0.164		0.754	
F063	0.139	-0.164	0.531	0.194
F116	0.156	0.579	-0.171	
F118	0.699			
F120	0.569	0.246	-0.157	-0.202
F121	0.842	-0.101		
F144_02	0.354	0.186		
G006		-0.434	0.203	

MR1 MR2 MR3 MR4 SS loadings 1.836 1.438 1.423 0.715 Proportion Var 0.108 0.085 0.084 0.042 Cumulative Var 0.108 0.193 0.276 0.318

COLÔMBIA ONDA 7

OBLIMIN:

Loadings:

MR1 MR2 MR3 MR4 B008 -0.257 0.260 0.122

C001	-0.270		0.257	-0.116
C002				-0.170
E018		0.235	-0.132	0.100
E034				0.298
E035				0.269
E036				0.196
E039			0.179	0.244
F028	-0.142	0.466		
F034		0.602		
F063		0.582		0.107
F116			0.498	
F118	0.636			
F120	0.375	-0.263	0.252	
F121	0.719			
F144_02	0.401		0.131	
G006		0.281		

MR1 MR2 MR3 MR4 SS loadings 1.414 1.145 0.520 0.350 Proportion Var 0.083 0.067 0.031 0.021 Cumulative Var 0.083 0.150 0.181 0.202

VARIMAX:

Loadings	Loadings:				
	MR1	MR2	MR3	MR4	
в008	-0.105		0.294	0.116	
C001	-0.113		0.272	-0.116	
C002				-0.165	
E018		0.251			
E034		0.136		0.290	
E035				0.262	
E036				0.191	
E039			0.183	0.237	
F028	-0.185	0.472	0.109		
F034		0.560			
F063	-0.116	0.598		0.103	
F116	0.352		0.395		
F118	0.609	-0.175	-0.169		
F120	0.537	-0.365			
F121	0.673	-0.111	-0.183		
F144_02	0.445				
G006		0.295			

MR1 MR2 MR3 MR4 SS loadings 1.521 1.251 0.457 0.333 Proportion Var 0.089 0.074 0.027 0.020 Cumulative Var 0.089 0.163 0.190 0.209

EQUADOR ONDA 7 OBLIMIN:

> pfa5\$loadings

	MR1	MR2	MR3	MR4
в008				0.271
C001	-0.141			0.273
C002				
E018		0.124		
E034		0.110		0.115
E035			0.302	
E036			0.673	

E039	-0.158		0.277	0.256
F028		0.521		
F034		0.540		
F063		0.435	0.108	
F116	0.233			0.421
F118	0.622			
F120	0.587			0.244
F121	0.741			
F144_02	0.317	-0.121		
G006				

MR1 MR2 MR3 MR4 SS loadings 1.494 0.829 0.641 0.498 Proportion Var 0.088 0.049 0.038 0.029

VARIMAX:

> equ7fact4\$loadings

Loadings:				
	MR1	MR2	MR3	MR4
в008				0.270
C001				0.280
C002				
E018	-0.106	0.131		
E034				0.131
E035			0.299	
E036			0.667	
E039			0.283	0.246
F028	-0.107	0.491		0.172
F034		0.520		
F063		0.433		
F116	0.392			0.366
F118	0.616			
F120	0.683	-0.120		0.153
F121	0.703			-0.151
F144_02	0.365	-0.147		
G006				

MR1 MR2 MR3 MR4
SS loadings 1.674 0.788 0.636 0.465
Proportion Var 0.098 0.046 0.037 0.027
Cumulative Var 0.098 0.145 0.182 0.210

GUATEMALA ONDA 5 OBLIMIN:

> pfa5d\$loadings

	MR1	MR2	MR3	MR4
в008			-0.167	
C001	-0.119		-0.244	0.137
C002			-0.139	
E018			0.271	
E035			0.139	-0.125
E036			0.154	0.397
E039				0.415
F028		0.560	0.101	
F034		0.627		
F063		0.223	0.393	
F116	0.377		-0.118	0.260
F118	0.719			
F120	0.679			

```
F121 0.433 -0.193 0.103
G006 0.103 0.180
```

MR1 MR2 MR3 MR4 SS loadings 1.359 0.829 0.461 0.444 Proportion Var 0.091 0.055 0.031 0.030 Cumulative Var 0.091 0.146 0.177 0.206

VARIMAX:

> pfa5d\$loadings

Loadings:

	MR1	MR2	MR3	MR4
в008	0.116		-0.162	
C001			-0.257	0.130
C002			-0.142	
E018			0.266	
E035			0.132	-0.131
E036			0.114	0.379
E039	0.121			0.413
F028	-0.121	0.554	0.179	
F034		0.616		
F063		0.210	0.418	
F116	0.435	0.106	-0.102	0.281
F118	0.706			
F120	0.690			
F121	0.407	-0.212		
G006			0.193	

MR1 MR2 MR3 MR4 SS loadings 1.393 0.814 0.498 0.442 Proportion Var 0.093 0.054 0.033 0.029 Cumulative Var 0.093 0.147 0.180 0.210

GUATEMALA ONDA 7 **OBLIMIN:**

> pfa7.m\$loadings

Loadings:				
	MR2	MR3	MR1	MR4
в008			-0.134	
C001	-0.103	0.102		0.717
C002				0.375
E018	0.296	-0.171	0.164	
E034				
E035			0.156	
E036		0.143		
E039		0.277	-0.222	
F028	0.579		-0.165	
F034	0.600			
F063	0.626	-0.186	0.122	
F116	-0.160	0.453		0.121
F118	-0.148	0.614	0.289	
F120	-0.248	0.703	0.289	
F121	-0.105	0.293	0.646	
F144_02	-0.143	0.116	0.587	
G006	0.262	-0.108		

	MR2	MR3	MR1	MR4
SS loadings	1.414	1.375	1.111	0.722
Proportion Var	0.083	0.081	0.065	0.042
Cumulative Var	0.083	0.164	0.229	0.272

VARIMAX:

> pfa7.m\$loadings

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	MR1	MR2	MR3	MR4
в008			-0.139	
C001				0.741
C002				0.388
E018	-0.191	0.250	0.223	
E034				
E035			0.176	
E036	0.154			
E039	0.304	0.106	-0.298	
F028		0.593	-0.159	
F034		0.621		
F063	-0.206	0.573	0.196	
F116	0.474			0.135
F118	0.669			
F120	0.760			
F121	0.291		0.563	
F144_02			0.573	
G006	-0.112	0.227	0.115	

 $\mathsf{MR1}$ MR2 MR3 MR4 SS loadings 1.572 1.219 0.948 0.757 Proportion Var 0.092 0.072 0.056 0.045 Cumulative Var 0.092 0.164 0.220 0.264

HAITI ONDA 6 OBLIMIN:

Loadings:

	MR1	MR4	MR2	MR3
в008				
C001				
C002				
E018				
E035				0.545
E036				0.601
E039				
F028				
F034			0.577	
F063			0.679	
F116		0.996		
F118	0.570			
F120	0.860			
F121	0.560	0.272		
G006		0.132		

MR1 MR4 MR2 MR3 SS loadings 1.392 1.093 0.807 0.669 Proportion Var 0.093 0.073 0.054 0.045

VARIMAX:

	MR1	MR4	MR2	MR3
в008				
C001				
C002				
E018				
E035				0.542
E036				0.594
E039				
F028				
F034			0.572	
F063			0.671	
F116	0.468	0.878		
F118	0.576			
F120	0.833			
F121	0.685	0.247		
G006	0.149	0.131		

MR1 MR4 MR2 MR3 SS loadings 1.743 0.870 0.801 0.664 Proportion Var 0.116 0.058 0.053 0.044 Cumulative Var 0.116 0.174 0.228 0.272

NICARÁGUA ONDA 7

OBLIMIN: Loadings:

	MR1	MR4	MR2	MR3
в008			0.104	
C001			0.478	
C002		-0.167	0.395	
E018	-0.145		-0.118	0.150
E034				
E035		-0.125		0.313
E036			0.116	0.402
E039	0.141	0.101	0.142	0.289
F028		0.434		
F034		0.473	-0.140	
F063	-0.157		-0.141	0.279
F116	0.565	0.153		
F118	0.400	-0.184	-0.206	
F120	0.500	-0.145		-0.100
F121	0.292	-0.337	-0.234	
F144_0	2 0.482			
G006	-0.133		-0.191	0.276

MR1 MR4 MR2 MR3 SS loadings 1.146 0.672 0.626 0.566 Proportion Var 0.067 0.040 0.037 0.033 Cumulative Var 0.067 0.107 0.144 0.177

VARIMAX:

\sim	2	М	п.	n	α	S	•	
 ·	а	u			u	3		

s:			
MR1	MR4	MR2	MR3
		0.11	2
		0.46	0
			MR1 MR4 MR2 0.11

```
C002
        -0.105 -0.153 0.356
E018
        -0.125
                      -0.136 0.148
E034
E035
               -0.116
                              0.304
E036
                               0.404
E039
                       0.135 0.300
        -0.117 0.416
F028
                0.450
F034
F063
        -0.146
                      -0.165 0.279
F116
         0.497 0.124 0.145
F118
         0.501 -0.196 -0.182
F120
         0.542 - 0.161
                             -0.109
F121
         0.441 -0.338 -0.235
F144_02 0.481
                      -0.221 0.267
G006
                 \mathsf{MR}1
                       MR4
                             MR2
                                    MR3
SS loadings
               1.299 0.629 0.592 0.565
Proportion Var 0.076 0.037 0.035 0.033
```

Cumulative Var 0.076 0.113 0.148 0.182

MÉXICO (MEX) ONDA 2

OBLIMIN:

> pf02<- fa(mex02d,nfactors=4,rotate = "oblimin")</pre>

> pf02\$loadings

Loadi	ngs: MR1	MR2	MR3	MR4
в006	-0.167	PIKE	MICS	PIICI
C001				
C002				0.113
E018	-0.110	0.144		
E034		0.113		0.292
E035				0.419
E036			0.404	-0.143
E039			0.790	
F028		0.625		-0.126
F034		0.739		
F063		0.720		0.127
F116	0.338			
F118	0.589			
F120	0.784			
F121	0.662			0.131
F141	0.566			
G006		0.142	-0.123	

MR1 MR2 MR3 MR4 SS loadings 1.884 1.523 0.832 0.379 Proportion Var 0.111 0.090 0.049 0.022 Cumulative Var 0.111 0.200 0.249 0.272

VARIMAX:

Load	ings:			
	MR1	MR2	MR3	MR4
в006	-0.163			
C001				
C002				0.112

```
E018 -0.127 0.168
E034
            0.138 -0.108 0.286
E035
            0.111
                         0.417
                   0.419 -0.103
E036
E039
                   0.783
F028 -0.116 0.608
F034
            0.726
F063 -0.111 0.727
                          0.146
F116 0.349
F118 0.579
F120 0.765
F121 0.670 -0.104
                          0.137
F141 0.577 -0.132
G006
            0.147 -0.133
                    MR1
                         MR2 MR3
                                      MR4
```

MR1 MR2 MR3 MR4
SS loadings 1.909 1.560 0.846 0.371
Proportion Var 0.112 0.092 0.050 0.022
Cumulative Var 0.112 0.204 0.254 0.276

MÉXICO (MEX) ONDA 3

OBLIMIN:

Load	ings:			
	MR2	MR1	MR3	MR4
в008	0.114			
C001				-0.199
C002		-0.138		0.101
E018		0.126		-0.118
E034		0.131		0.193
E035	0.104			-0.219
E036			0.883	
E039		-0.143	0.217	0.322
F028	-0.199	0.424		0.323
F034		0.727		0.136
F063		0.736		-0.159
F116	0.368	-0.145		0.331
F118	0.518			
F120	0.742			
F121	0.698			-0.152
G006		0.355		-0.172

MR2 MR1 MR3 MR4 SS loadings 1.524 1.488 0.839 0.573 Proportion Var 0.095 0.093 0.052 0.036 Cumulative Var 0.095 0.188 0.241 0.277

VARIMAX:

> mex3fact4\$loadings

Loadings:					
	MR2	MR1	MR3	MR4	
в008	-0.109	0.128			
C001				-0.188	
C002	-0.166				
E018	0.174	-0.105			
E034				0.211	
E035	0.121			-0.208	
E036			0.879		
E039	-0.215		0.240	0.290	
F028	0.339	-0.215		0.430	
F034	0.649			0.279	
F063	0.765	-0.159			
F116	-0.304	0.418		0.219	
F118		0.509			

```
F120 -0.180 0.741

F121 0.653 -0.236

G006 0.405 -0.124

MR2 MR1 MR3 MR4

SS loadings 1.560 1.530 0.845 0.595

Proportion Var 0.098 0.096 0.053 0.037
```

MÉXICO (MEX) ONDA 4

Cumulative var 0.098 0.193 0.246 0.283

OBLIMIN:

> pfa4a\$loadings

Loadi	ngs:			
	MR1	MR2	MR4	MR3
в008		-0.127		0.127
C001				0.572
C002				0.305
E018			0.252	-0.145
E034			0.212	
E035			-0.130	-0.123
E036		0.173		
E039		0.137	-0.195	0.144
F028		0.523		
F034		0.538		
F063		0.308	0.434	
F116	0.195		-0.198	0.229
F118	0.636			
F120	0.699		-0.121	
F121	0.761			
G006		-0.100	0.371	0.151

MR1 MR2 MR4 MR3 SS loadings 1.537 0.752 0.573 0.587 Proportion Var 0.096 0.047 0.036 0.037 Cumulative Var 0.096 0.143 0.179 0.216

VARIMAX:

- > mex4fact4 <- fa(mex04d,nfactors=4,rotate = "varimax")</pre>
- > mex4fact4\$loadings

Loadings: MR1 MR2 MR3 MR4 в008 -0.108 0.153 C001 -0.110 -0.167 0.542 C002 0.286 E018 0.302 E034 0.214 E035 -0.154 0.158 E036 E039 0.123 -0.217 F028 0.521 F034 0.537 0.151 F063 0.352 0.443 0.104 F116 0.169 -0.300 0.130 F118 0.625 F120 0.678 -0.205 -0.121 F121 0.752 -0.117G006 -0.106 0.302 0.256

MR1 MR2 MR3 MR4 SS loadings 1.492 0.758 0.675 0.579 Proportion Var 0.093 0.047 0.042 0.036 Cumulative Var 0.093 0.141 0.183 0.219

MÉXICO (MEX) ONDA 5

OBLIMIN:

> pfa5<- fa(mex05d,nfactors=4,rotate = "oblimin")</pre>

> pfa5\$loadings

Loadings:

	MR1	MR2	MR3	MR4
в008				
C001		0.998		
C002		0.262		
E018			0.165	
E035	0.124			
E036				0.186
E039	-0.147			0.346
F028	-0.113		0.514	0.102
F034			0.551	
F063			0.565	-0.133
F116	0.108			0.426
F118	0.715			
F120	0.520			0.301
F121	0.723			
G006	0.114		0.232	-0.169

MR1 MR2 MR3 MR4 SS loadings 1.390 1.078 0.977 0.501 Proportion Var 0.093 0.072 0.065 0.033 Cumulative Var 0.093 0.165 0.230 0.263

VARIMAX:

> mex5fact4\$loadings

Loadings:					
	MR1	MR3	MR2	MR4	
в008					
C001	-0.130		0.975	0.157	
C002			0.261		
E018		0.172			
E035	0.128				
E036				0.178	
E039				0.337	
F028	-0.147	0.522		0.102	
F034		0.530			
F063		0.570		-0.110	
F116	0.199			0.423	
F118	0.692	-0.105			
F120	0.589	-0.179		0.309	
F121	0.705	-0.152			
G006		0.227		-0.157	

MR1 MR3 MR2 MR4 SS loadings 1.442 1.033 1.032 0.503 Proportion Var 0.096 0.069 0.069 0.034 Cumulative Var 0.096 0.165 0.234 0.267

MÉXICO (MEX) ONDA 6

OBLIMIN:

> pfa66x<- fa(mex06d,nfactors=4,rotate = "oblimin")</pre>

> pfa66x\$loadings

Load	ings:			
	MR1	MR2	MR3	MR4
в008				
C001			0.530	
C002			0.219	
E018		0.145		
E035				0.272
E036				0.238
E039				0.464
F028		0.487		
F034		0.657		
F063		0.628		
F116	0.315		0.154	0.135
F118	0.573			
F120	0.637		0.129	
F121	0.697			
G006		0.163	0.161	-0.120

MR1 MR2 MR3 MR4 SS loadings 1.333 1.123 0.423 0.394 Proportion Var 0.089 0.075 0.028 0.026 Cumulative Var 0.089 0.164 0.192 0.218

VARIMAX:

> mex6fact4\$loadings

Loadings:				
	MR1	MR2	MR3	MR4
в008				
C001			0.527	
C002			0.212	
E018		0.164		
E035				0.272
E036				0.234
E039				0.455
F028		0.487		
F034		0.641		
F063	-0.108	0.630		
F116	0.319		0.138	0.130
F118	0.564	-0.103	-0.132	
F120	0.635	-0.116		
F121	0.679		-0.152	
G006		0.191	0.147	

MR1 MR2 MR3 MR4 SS loadings 1.315 1.152 0.424 0.387 Proportion Var 0.088 0.077 0.028 0.026 Cumulative Var 0.088 0.164 0.193 0.219

MÉXICO (MEX) ONDA 7

OBLIMIN:

Loadings:				
MF	R1 MR	2	MR3	MR4
в008				0.145
C001			0.744	
C002			0.535	
E018	0	.182	-0.115	
E034	0	.101		
E035				0.273
E036				0.370

E039				0.480
F028		0.557		
F034		0.674		
F063		0.439		
F116	0.266		0.110	0.133
F118	0.610			
F120	0.600			0.104
F121	0.707			
F144_02	0.360			
G006	-0.101	0.167		

MR1 MR2 MR3 MR4 SS loadings 1.468 1.041 0.878 0.519 Proportion Var 0.086 0.061 0.052 0.031

VARIMAX:

> mex7fact4\$loadings

Loadings	5:			
	MR1	MR2	MR3	MR4
в008				0.153
C001			0.739	0.110
C002			0.526	
E018		0.186	-0.102	
E034		0.108		
E035				0.271
E036				0.364
E039				0.479
F028		0.561		
F034		0.666		
F063		0.449		
F116	0.267		0.100	0.138
F118	0.601			
F120	0.600	-0.127		
F121	0.696			
F144_02	0.362	-0.113		
G006	-0.109	0.181		-0.106

MR1 MR2 MR3 MR4 SS loadings 1.450 1.089 0.861 0.526 Proportion Var 0.085 0.064 0.051 0.031 Cumulative Var 0.085 0.149 0.200 0.231

PERU ONDA 3 OBLIMIN:

_	T1.1T14 P			
Load	ings:			
	MR1	MR2	MR3	MR4
в008			0.355	0.129
C001			0.396	
C002			0.314	
E018				0.161
E034	0.104			0.377
E035			-0.274	
E036				
E039	-0.105		0.274	
F028		0.267		
F034		0.754		
F063		0.346		0.271
F116			0.140	-0.258
F118	0.576			
F120	0.496		0.160	-0.182
F121	0.654			
G006		0.144		0.133

```
MR1 MR2 MR3 MR4
SS loadings 1.061 0.815 0.593 0.404
Proportion Var 0.066 0.051 0.037 0.025
Cumulative Var 0.066 0.117 0.154 0.180
```

VARIMAX:

> peru3fact4 <- fa(peru03d,nfactors=4,rotate = "varimax")</pre>

> peru3fact4\$loadings

Load ⁻	Loadings:					
	MR1	MR2	MR3	MR4		
в008			0.330			
C001			0.383	0.141		
C002			0.306			
E018				-0.151		
E034				-0.362		
E035			-0.263			
E036				0.106		
E039			0.282	0.102		
F028		0.292				
F034		0.728		0.154		
F063	-0.106	0.421		-0.202		
F116	0.132		0.151	0.281		
F118	0.572		-0.115			
F120	0.530	-0.133	0.139	0.202		
F121	0.625	-0.119		-0.107		
G006		0.179		-0.101		

MR1 MR2 MR3 MR4 SS loadings 1.056 0.882 0.573 0.408 Proportion Var 0.066 0.055 0.036 0.025 Cumulative Var 0.066 0.121 0.157 0.182

PERU ONDA 4 OBLIMIN:

	MR1	MR2	MR	13	MR4	
в008		0.	. 116			0.137
C001				0.	508	
C002				0.	392	-0.128
E018		0.	. 110	-0.	212	-0.123
E034						
E035				-0.	159	-0.102
E036	-0.187					0.164
E039						0.365
F028	-0.147	0.	406			
F034		0.	560	0.	155	
F063		0.	. 596	-0.	147	
F116	0.134					0.280
F118	0.550					
F120	0.423					0.191
F121	0.593					
G006		0.	.189	-0.	123	

MR1 MR2 MR3 MR4 SS loadings 0.920 0.912 0.571 0.373 Proportion Var 0.058 0.057 0.036 0.023

VARIMAX:

- > peru4fact4 <- fa(peru04d,nfactors=4,rotate = "varimax")</pre>
- > peru4fact4\$loadings

```
MR2
            MR1
                   MR3
                          MR4
в008
                          0.135
                   0.540
C001
C002
                   0.329 -0.177
E018 0.135
                  -0.280
                          0.108
E034
E035
                  -0.202
                          0.144
E036
           -0.189
E039 -0.116
                   0.219 0.294
F028 0.435 -0.173
F034 0.554
F063 0.578
                  -0.203 0.114
            0.142 0.209 0.236
F116
F118
            0.543 0.104
F120 -0.156 0.430 0.180 0.173
F121
            0.582
G006 0.160
                  -0.102 0.118
                              MR3
                    MR2
                         MR1
                                      MR4
SS loadings
            0.933 0.921 0.720 0.294
Proportion Var 0.058 0.058 0.045 0.018
Cumulative var 0.058 0.116 0.161 0.179
```

PERU ONDA 6 OBLIMIN:

> pfa66x\$loadings

Loadings: MR1 MR2 MR3 MR4 в008 0.149 0.117 C001 -0.193 0.391 C002 0.202 E018 0.118 0.177 -0.218 E035 0.173 0.470 E036 0.181 E039 -0.113 0.295 0.270 F028 -0.144 0.364 0.103 F034 0.636 F063 0.620 - 0.115F116 0.542 F118 0.610 F120 0.441 0.424 - 0.150F121 0.818 G006 0.174

MR1 MR2 MR3 MR4 SS loadings 1.360 0.994 0.866 0.398 Proportion Var 0.091 0.066 0.058 0.027 Cumulative Var 0.091 0.157 0.215 0.241

VARIMAX:

Loadings:					
	MR1	MR2	MR3	MR4	
в008			0.147	0.105	
C001			0.387		
C002			0.195		
E018		0.176	-0.219		
E035	0.109			0.470	
E036				0.174	
E039			0.301	0.247	
F028	-0.128	0.374			
F034		0.628		0.115	
F063		0.623	-0.124		
F116	0.204		0.511		
F118	0.620				

```
F120 0.590 0.362 -0.169
F121 0.801
G006 0.175
```

MR1 MR2 MR3 MR4 Cumulative Var 0.098 0.164 0.217 0.242

PERU ONDA 7 **OBLIMIN:**

> pfaxx\$loadings

Loadings:

•	MR1	MR2	MR3	MR4
в008			0.114	
C001			0.221	
C002				
E018		0.168	-0.157	
E034			0.117	
E035			0.117	0.368
E036			0.166	0.312
E039			0.500	0.110
F028	-0.106	0.460		-0.161
F034		0.553		
F063		0.568		
F116	0.358		0.193	-0.242
F118	0.719			
F120	0.742			-0.125
F121	0.635			0.112
F144_02	0.361			0.151
G006		0.174		

MR1 MR2 MR3 MR4 1.767 0.913 0.446 0.412 SS loadings Proportion Var 0.104 0.054 0.026 0.024 Cumulative Var 0.104 0.158 0.184 0.208

VARIMAX:

> peru7fact4 <- fa(peru07d,nfactors=4,rotate = "varimax")</pre>

> peru7fact4\$loadings

Loadings:					
	MR1	MR2	MR3	MR4	
в008			0.121		
C001			0.248		
C002					
E018		0.178	-0.173		
E034			0.117		
E035	0.109			0.365	
E036				0.318	
E039			0.446	0.194	
F028	-0.178	0.445	0.123	-0.165	
F034		0.541			
F063		0.562			
F116	0.378		0.275	-0.184	
F118	0.712				
F120	0.753				
F121	0.625		-0.128		
F144_02	0.356		-0.130	0.134	
G006		0.176			

MR1 MR2 MR3 MR4 SS loadings 1.797 0.896 0.459 0.385

Uruguai onda 3 oblimin:

> pfd3<- fa(uru03d,nfactors=4,rotate = "oblimin")
> pfd3\$loadings

```
Loadings:
```

	MR1	MR2	MR3	MR4
в008		-0.114	-0.208	
C001	0.116		-0.192	0.333
C002	0.109			0.215
E018	-0.147	0.165	-0.137	-0.259
E034	-0.125			-0.157
E035			-0.111	
E036			0.338	
E039			0.408	
F028	-0.192	0.491		0.228
F034		0.836		
F063		0.742		
F116	0.247			
F118	0.645		0.219	0.105
F120	0.697			0.116
F121	0.764			-0.138
G006	-0.107	0.173	0.176	-0.157

MR1 MR2 MR3 MR4 1.667 1.601 0.493 0.395 SS loadings Proportion Var 0.104 0.100 0.031 0.025

- varimax:
 > uru3fact4 <- fa(uru03d,nfactors=4,rotate = "varimax")
 > uru3fact4\$loadings

Loadings:				
	MR1	MR2	MR4	MR3
в008		-0.165		-0.209
C001			0.369	
C002			0.244	
E018	-0.160	0.115	-0.281	-0.217
E034	-0.116		-0.191	
E035				-0.126
E036	0.101			0.325
E039	0.117		-0.136	0.371
F028	-0.253	0.553		
F034		0.810	-0.132	
F063		0.701	-0.195	-0.138
F116	0.249		0.110	
F118	0.649		0.192	0.214
F120	0.655	-0.196	0.292	
F121	0.736	-0.130		-0.111
G006		0.184	-0.231	0.107

MR1 MR2 MR4 SS loadings 1.601 1.599 0.585 0.469 Proportion Var 0.100 0.100 0.037 0.029 Cumulative Var 0.100 0.200 0.237 0.266

Uruguai onda 5 oblimin:

- > uru5fact4 <- fa(uru05d,nfactors=4,rotate = "varimax")</pre>
- > uru5fact4\$loadings

```
Loadings:
             MR2 MR3 MR4
      MR1
в008 -0.103
C001
             -0.169 0.129 0.676
C002
                              0.513
             -0.120 -0.514
E018
E035
             -0.109
                             -0.148
E036
                      0.130
E039
F028 0.470
F034 0.788
F063 0.802 -0.155 -0.122
F116
                      0.689
              0.662
F118
F120 0.558 0.223
F121 -0.101 0.760 -0.163
F120
G006
```

MR1 MR2 MR3 MR4 SS loadings 1.550 1.420 1.052 0.767 Proportion Var 0.103 0.095 0.063 0.051 Cumulative Var 0.103 0.198 0.261 0.313

varimax:

Loadings:				
	MR1	MR2	MR3	MR4
в008	-0.102			
C001				0.695
C002		0.101		0.517
E018			-0.525	
E035		-0.143		-0.148
E036				
E039			0.130	
F028	0.476			
F034	0.809			
F063	0.801			
F116			0.689	
F118		0.661		
F120		0.545	0.258	
F121		0.770	-0.121	
G006			-0.270	

MR1 MR2 MR3 MR4 SS loadings 1.554 1.381 0.944 0.793 Proportion Var 0.104 0.092 0.063 0.053

Uruguai onda 6 oblimin:

• ·• · · · · · · · · · · · · · · · · ·				
Loadings:				
	MR1	MR2	MR3	MR4
в008				-0.133
C001	-0.117		0.223	0.249
C002			0.590	0.170
E018	-0.132		0.454	-0.306
E035			0.263	
E036			0.130	0.283
E039				0.533
F028	-0.149	0.438		
F034		0.789		
F063		0.712	0.142	
F116			0.131	0.280

```
F118 0.712

F120 0.575 -0.132

F121 0.740 0.106

G006 0.208 0.224 -0.191

MR1 MR2 MR3 MR4

SS loadings 1.466 1.416 0.831 0.701

Proportion Var 0.098 0.094 0.055 0.047
```

varimax:

- > uru6fact4 <- fa(uru06d,nfactors=4,rotate = "varimax")</pre>
- > uru6fact4\$loadings

```
Loadings:
      MR1
             MR2
                     MR3
                            MR4
в008
                            0.163
C001 -0.132
                    0.345
C002
                    0.467
                            0.399
E018 -0.155
                            0.570
E035
                    0.198 0.198
E036
                    0.315
E039 -0.102
                    0.507 -0.169
F028 -0.176 0.452
F034
             0.763
             0.694 0.117 0.258
F063
F116
                    0.311
F118 0.692
                           -0.183
F120 0.573 -0.209
                           -0.236
F121
      0.710
G006
             0.198
                            0.332
                     \mathsf{MR1}
                            MR2
                                 MR3
SS loadings
              1.421 1.393 0.864 0.862
Proportion Var 0.095 0.093 0.058 0.057
Cumulative Var 0.095 0.188 0.245 0.303
```

Testes de redução de dimensionalidade com 1,2,3 e 4 fatores com rotação varimax:

- Argentina: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Argentina
- Bolívia: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Bol%C3%ADvia
- Brasil: https://github.com/gregorioCPcG/Capitulo2_TESE_Gregorio/tree/Brasil
- Chile: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Chile
- Colômbia: https://github.com/gregorioCPcG/Capitulo2_TESE_Gregorio/tree/Col%C3%B4mbia
- El Salvador: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/El-Salvador
- Equador: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Equador
- Guatemala: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Guatemala
- Haiti: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Haiti
- México: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Mexico
- Nicarágua: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Nicaragua

- Peru: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Peru
- Porto Rico: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Porto-Rico
- Rep Dominicana: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Rep-Dom
- Uruguai: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Uruguai
- Venezuela: https://github.com/gregorioCPcG/Capitulo2 TESE Gregorio/tree/Venezuela

Obs.: Não foi realizada a verificação dos casos de Venezuela, El Salvador e República Dominicana, mas pode ser obtida mediante contato com o autor.