

CATPCA VARIABLES=Objectivos\_produtividade Objectivos\_venda\_produtos\_serviços Objectivos\_rendibilidade Objectivos\_custos Objectivos\_serviço Objectivos\_inovação Objectivos\_qualidade Objectivos\_recursos\_humanos

/ANALYSIS=Objectivos\_produtividade(WEIGHT=1,LEVEL=NUME) Objectivos\_venda\_produtos\_serviços(WEIGHT=1,LEVEL=NUME) Objectivos\_rendibilidade(WEIGHT=1,LEVEL=NUME) Objectivos\_custos(WEIGHT=1,LEVEL=NUME) Objectivos\_serviço(WEIGHT=1,LEVEL=NUME) Objectivos\_inovação(WEIGHT=1,LEVEL=NUME) Objectivos\_qualidade(WEIGHT=1,LEVEL=NUME) Objectivos\_recursos\_humanos(WEIGHT=1,LEVEL=NUME)

/MISSING=Objectivos\_produtividade(PASSIVE,MODEIMPU) Objectivos\_venda\_produtos\_serviços(PASSIVE,MODEIMPU) Objectivos\_rendibilidade(PASSIVE,MODEIMPU) Objectivos\_custos(PASSIVE,MODEIMPU) Objectivos\_serviço(PASSIVE,MODEIMPU)

Objectivos\_inovação(PASSIVE,MODEIMPU) Objectivos\_qualidade(PASSIVE,MODEIMPU) Objectivos\_recursos\_humanos(PASSIVE,MODEIMPU)

/DIMENSION=2

/NORMALIZATION=VPRINCIPAL

/MAXITER=100

/CRITITER=.00001

/PRINT=CORR LOADING OBJECT

/PLOT=BIPLOT(LOADING) (20) OBJECT (20) LOADING(20)

/SAVE=OBJECT.

## CATPCA - Principal Components Analysis for Categorical Data

[DataSet1] D:\Área Trabalho\Temas\_Tese\Análise\_dados\_spss\Base\_Spss\_Original\Preliminar\Base\_Original\_vf.sav

### Credit

CATPCA  
Version 1.1  
by  
Data Theory Scaling System Group (DTSS)  
Faculty of Social and Behavioral Sciences  
Leiden University, The Netherlands

### Case Processing Summary

Valid Active Cases	208
Active Cases with Missing Values	0
Supplementary Cases	0
Total	208
Cases Used in Analysis	208

### Iteration History

Iteration Number	Variance Accounted For		Loss		
	Total	Increase	Total	Centroid Coordinates	Restriction of Centroid to Vector Coordinates
17 <sup>a</sup>	5,635438	,000006	10,364562	9,751511	,613051

a. The iteration process stopped because the convergence test value was reached.

### Model Summary

Dimension	Cronbach's Alpha	Variance Accounted For	
		Total (Eigenvalue)	% of Variance
1	,905	4,805	60,061
2	-,233	,831	10,382
Total	,940 <sup>a</sup>	5,635	70,443

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

### Correlations Transformed Variables

	obj_prod	obj_vpser	obj_rend	obj_cus	obj_ser	obj_ino
obj_prod	1,000	,565	,605	,608	,496	,480
obj_vpser	,565	1,000	,531	,516	,680	,470
obj_rend	,605	,531	1,000	,660	,560	,461
obj_cus	,608	,516	,660	1,000	,548	,398
obj_ser	,496	,680	,560	,548	1,000	,577
obj_ino	,480	,470	,461	,398	,577	1,000
obj_qua	,459	,509	,560	,408	,621	,661
obj_rhum	,502	,546	,538	,532	,594	,522
Dimension	1	2	3	4	5	6
Eigenvalue	4,805	,831	,557	,481	,423	,372

### Correlations Transformed Variables

	obj_qua	obj_rhum
obj_prod	,459	,502
obj_vpser	,509	,546
obj_rend	,560	,538
obj_cus	,408	,532
obj_ser	,621	,594
obj_ino	,661	,522
obj_qua	1,000	,595
obj_rhum	,595	1,000
Dimension	7	8
Eigenvalue	,276	,255

## Objects

### Object Scores

Case Number	Dimension	
	1	2
1	,269	-,159
2	-,125	,694
3	1,841	-,135
4	,167	-,308
5	,175	-,710
6	-,634	-1,565
7	,027	,605
8	-,658	-,133
9	-,235	-,686
10	-,243	1,472
11	-,658	,513
12	,390	,662
13	,167	,296
14	1,369	-1,095
15	-,092	-1,149
16	-,636	-,641
17	-,257	,703
18	,326	2,127
19	-,034	-3,962
20	-,375	-,200
21	,904	-,056
22	,185	-1,933
23	,940	,184
24	,386	-1,168
25	1,325	,599
26	-,013	-,750
27	-1,000	,391
28	,060	-,369
29	,296	,111
30	,379	-,220
31	-1,347	2,243
32	-,681	-2,257
33	1,841	-,135
34	-1,083	-2,196
35	-,571	-,602
36	,004	1,184
37	-2,850	-3,640
38	-,159	-,264
39	,445	,523
40	,307	,014
41	,786	,021
42	,409	-,410
43	1,711	-,239

Variable Principal Normalization.

### Object Scores

Case Number	Dimension	
	1	2
44	1,058	,076
45	-2,005	-,497
46	,090	,063
47	-2,377	,487
48	1,841	-,135
49	-,181	-,600
50	-,411	,895
51	-,771	,441
52	-,120	,943
53	-2,377	,487
54	1,051	,626
55	-,018	1,070
56	-1,464	-2,889
57	,680	-,355
58	,519	-,502
59	1,416	,013
60	1,841	-,135
61	-1,231	,898
62	-,162	,552
63	-,790	,277
64	-,508	,093
65	,233	,613
66	-,113	1,607
67	1,047	,560
68	,017	-,939
69	,624	,544
70	-2,000	-3,205
71	-,079	-1,670
72	-,126	-,188
73	,186	,204
74	1,020	,320
75	-3,802	,543
76	,411	-,177
77	,565	-1,598
78	1,841	-,135
79	-,334	-1,078
80	,493	,140
81	-,147	,998
82	,786	,021
83	-,323	-1,197
84	1,101	-,938
85	-,436	,837
86	-,786	-2,731

Variable Principal Normalization.

**Object Scores**

Case Number	Dimension	
	1	2
87	,886	,283
88	-1,059	2,017
89	,551	-,459
90	-,942	-,053
91	,796	-,366
92	,217	-,910
93	-,677	1,286
94	,807	-,485
95	,248	1,026
96	,269	,187
97	1,841	-,135
98	1,197	,140
99	-,106	-1,295
100	,002	,932
101	1,206	-,872
102	,154	,161
103	-4,087	1,055
104	-,527	-3,461
105	-,323	-,204
106	,273	-,596
107	-,140	,950
108	1,735	-,511
109	-,140	1,297
110	1,841	-,135
111	,027	-1,294
112	-,618	-,664
113	-,228	-,021
114	-,466	-,478
115	,981	-,694
116	-1,711	,642
117	,306	-,908
118	,604	,583
119	1,430	,408
120	,786	,021
121	,155	-,205
122	-,802	1,667
123	-,292	2,130
124	-,141	,068
125	-,535	,921
126	1,053	1,193
127	-1,083	-,613
128	1,431	-,609
129	,098	1,091

Variable Principal Normalization.

**Object Scores**

Case Number	Dimension	
	1	2
130	-,447	-,904
131	-,498	-,854
132	-,485	-,976
133	-1,236	-,191
134	-1,070	,553
135	1,841	-,135
136	-,467	,184
137	1,841	-,135
138	-1,536	-,421
139	,811	,080
140	1,841	-,135
141	1,557	,279
142	-,059	1,969
143	-,320	1,173
144	-,784	,706
145	-1,712	,957
146	-2,082	,601
147	-,284	,433
148	,786	,021
149	-,268	,176
150	1,075	-,327
151	-,478	,637
152	,786	,021
153	1,172	,436
154	,898	-,186
155	,349	-,206
156	-1,593	1,159
157	1,841	-,135
158	-,150	,733
159	-,268	,176
160	-,530	-,951
161	1,161	,920
162	1,196	-1,089
163	,390	,662
164	-,010	,117
165	-1,007	-,060
166	-1,289	-,661
167	-,235	,877
168	-,011	1,054
169	-1,209	-,900
170	-1,148	1,703
171	-1,708	1,834
172	1,288	,457

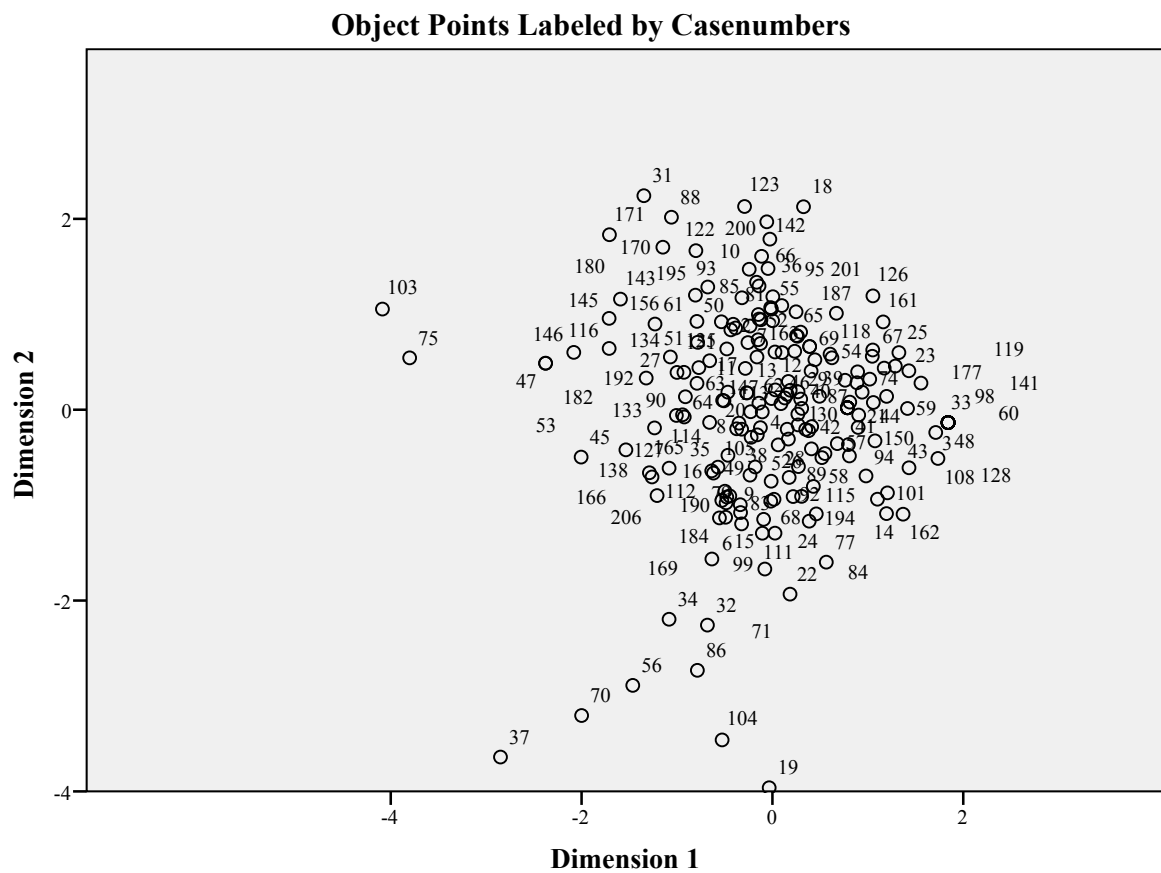
Variable Principal Normalization.

### Object Scores

Case Number	Dimension	
	1	2
173	-,386	,856
174	-,522	,098
175	,130	,123
176	,030	,208
177	,893	,397
178	,266	-,046
179	,101	,599
180	-,791	,925
181	,295	,813
182	-,912	,136
183	-,350	-,141
184	-,555	-1,134
185	,405	,406
186	-,223	-,289
187	,670	1,011
188	-,478	-,915
189	-,924	-,076
190	-,337	-,996
191	-,107	-,023
192	-1,323	,332
193	-,490	-1,127
194	,460	-1,092
195	-,807	1,200
196	,263	,770
197	-,166	1,336
198	,429	-,804
199	1,841	-,135
200	-,027	1,787
201	-,046	1,480
202	,786	,021
203	,762	,309
204	-,018	-,959
205	,786	,021
206	-1,262	-,705
207	-,927	,392
208	,253	,777

Variable Principal Normalization.

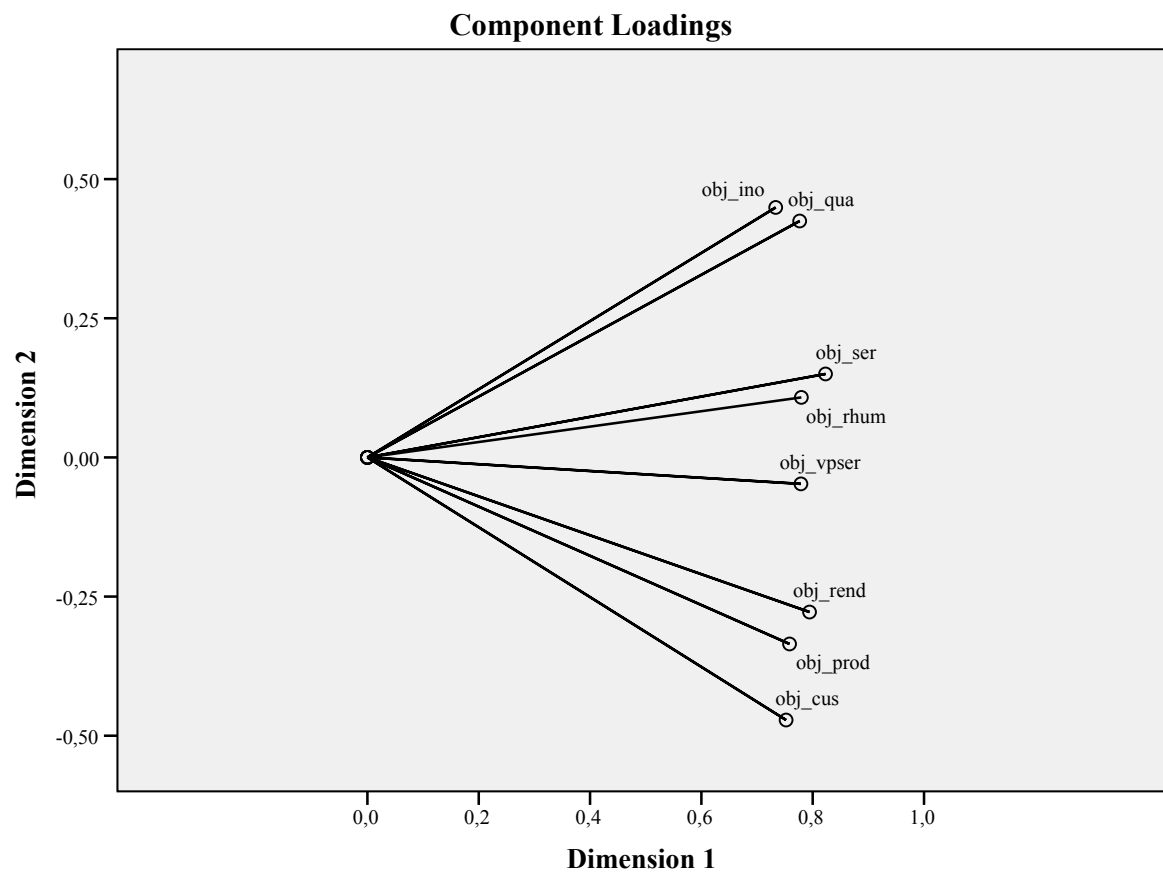
### Object Points Labeled by



Variable Principal Normalization.

## Component Loadings

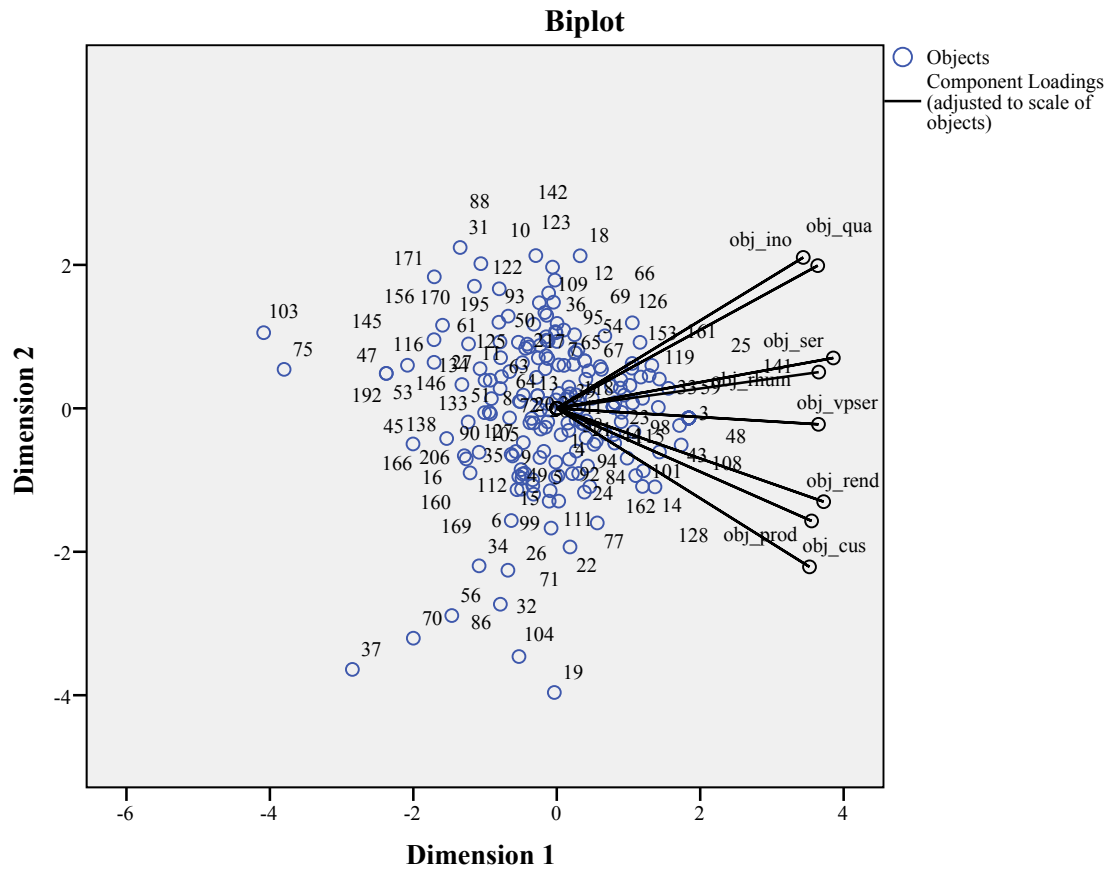




Variable Principal Normalization.

## **Biplot Component Loadings and Objects**

**Objects Labeled by**



Variable Principal Normalization.

```

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SAVE OUTFILE='D:\Área '+
'Trabalho\Temas_Tese\Análise_dados_spss\Base_Spss_Original\Preliminar\Base_Original_vf.sav'
/COMPRESSED.
GRAPH
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/MISSING=LISTWISE.

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## Graph

[DataSet1] D:\Área Trabalho\Temas\_Tese\Análise\_dados\_spss\Base\_Spss\_Original\Preliminar\Base\_Original\_vf.sav

