





Time Use Survey	
Case Study 1	













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	Hurried	Hurried_Often	Hurried_5years
F 65 more Day	No (0.79), Yes (0.21)	Sometimes (0.36), Everyday (0.27), Frequently (0.37)	The same (0.39), More hurri (0.27), Less hurri (0.33), Don't know i
M 35_54 Day	No (0.41), Yes (0.59)	Sometimes (0.29), Everyday (0.44), Frequently (0.27)	The same (0.42), More hurri (0.49), Less hurri (0.09)
F 35_54 Day	No (0.28, Yes (0.72)	Sometimes (0.22, Everyday (0.50) requently (0.27)	The same (0.35), More hurri (0.57), Less hurri (0.08)
F 25_34 Day	No (0.26), Yes (0.74)	Sometimes (0.26), Everyday (0.38), Frequently (0.36)	The same (0.19), More hurri (0.70), Less hurri (0.11)
M 65 more Day	No (0.82), Yes (0.18)	Sometimes (0.34), Everyday (0.40), Frequently (0.26)	The same (0.45), More hurri (0.29), Less hurri (0.22), Don't know
F 55_64 Day	No (0.48), Yes (0.52)	Sometimes (0.30), Everyday (0.39), Frequently (0.31)	The same (0.42), More hurri (0.43), Less hurri (0.15)
M 25_34 Day	No (0.32), Yes (0.68)	Sometimes (0.30), Everyday (0.34), Frequently (0.36)	The same (0.23), More hurri (0.69), Less hurri (0.08)
M 55_64 Day	No (0.53), Yes (0.47)	Sometimes (0.29), Everyday (0.34), Frequently (0.37)	The same (0.36), More hurri (0.38), Less hurri (0.26)
F 15_24 Day	No (0.38), Yes (0.62)	Sometimes (0.33), Everyday (0.36), Frequently (0.31)	The same (0.09), More hurri (0.85), L ss hurri (0.06)
M 15_24 Day	No (0.52), Yes (0.48)	Sometimes (0.44), Everyday (0.26), Frequently (0.30)	The same (0.17), More hurri (0.79), Less hurri (0.05)

S	OE	-	Per	cept	ion	of	time
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	Hurried_3years	Hurried_1years
F 65 more Day	The same (0.57), More hurri (0.19), Less hurri (0.23), Don't know (0.01)	The same (0.67), More hurri (0.17), Less hurri (0.15), Don't know (0.01)
M 35_54 Day	The same (0.53), More hurri (0.40), Less hurri (0.07)	The same (0.60), More hurri (0.33), Less hurri (0.06)
F 35_54 Day	The same (0.47), More hurri (0.44), Less hurri (0.09)	The same (0.63), More hurri (0.33), Less hurri (0.04)
F 25_34 Day	The same (0.39), More hurri (0.55), Less hurri (0.06)	The same (0.55), More hurri (0.40), Less hurri (0.05)
M 65 more Day	The same (0.65), More hurri (0.14), Less hurri (0.17), Don't know (0.04)	The same (0.69), More hurri (0.16), Less hurri (0.11), Don't know (0.04)
F 55_64 Day	The same (0.56), More hurri (0.31), Less hurri (0.12)	The same (0.68), More hurri (0.26), Less hurri (0.06)
M 25_34 Day	The same (0.37), More hurri (0.57), Less hurri (0.06)	The same (0.52), More hurri (0.43), Less hurri (0.05)
M 55_64 Day	The same (0.53), More hurri (0.29), Less hurri (0.18)	The same (0.63), More hurri (0.30), Less hurri (0.07)
F 15_24 Day	The same (0.16), More hurri (0.72), Less hurri (0.11)	The same (0.42), More hurri (0.45), Less hurri (0.12)
M 15_24 Day	The same (0.22), More hurri (0.73) Less hurri (0.04)	The same (0.50), More hurri (0.49), Less hurri (0.01)





























VARIABLES

-marital status (4) -education level (4) -economic activity (12) -profession (10) -full / part time (2) -professional status (5)

TOTAL: 37 var

Man / 15 to 24 y Man / 25 to 34 y	vears old	Full-time	Part-time	Primary_studies_or_less	Secondary_studiesand_profes	University_studies	Witho
Man / 15 to 24 y Man / 25 to 34 y	vears old	[94.50:96.50]	[3.50 : 5.50]	1 54 40 50 00 1			
Man / 25 to 34 y	veers old			[54.40 : 59.00]	[36.50 : 41.00]	[1.40:2.70]	[1.8
Mar. 2054- 44.4	ours olu	[96.30 : 97.60]	[2.40:3.70]	[57.50 : 61.10]	[27.60 : 31.00]	[6.80 : 8.80]	[2.9
Man 7 35 to 44 y	ears old	[97.90 : 98.80]	[1.20:2.10]	[60.70 : 64.20]	[23.90 : 27.00]	[6.70:8.60]	[3.7
Man / 45 to 54 y	/ears old	[96.60 : 97.90]	[2.10:3.40]	[67.10 : 70.70]	[16.50:19.50]	[6.80 : 8.90]	[4.3
Man / 55 to 64 y	/ears old	[87.20 : 90.10]	[9.90 : 12.80]	[63.30 : 67.70]	[7.10:9.70]	[4.40 : 6.50]	[18.8
Man / 65 and more	e years old	[53.20 : 59.80]	[40.20 : 46.80]	[45.10 : 51.70]	[4.20 : 7.30]	[2.90 : 5.60]	[38.3
VVoman / 15 to 24	years old	[89.10 : 92.30]	[7.70:10.90]	[46.40 : 51.90]	[39.50 : 44.90]	[5.50 : 8.30]	[1.0
Woman / 25 to 34	years old	[88.20 : 90.70]	[9.30 : 11.80]	[49.10 : 53.20]	[29.30 : 33.00]	[14.60:17.60]	[1.1
VVoman / 35 to 44	years old	[87.40 : 89.90]	[10.10:12.60]	[56.90 : 60.80]	[22.10 : 25.40]	[12.10:14.80]	[3.1
VVoman / 45 to 54	years old	[80.00 : 83.40]	[16.60:20.00]	[61.60 : 65.80]	[12.10:15.10]	[9.00 : 11.70]	[10.9
Woman / 55 to 64	years old	[61.60 : 67.00]	[33.00 : 38.40]	[43.60 : 49.10]	[2.90 : 5.10]	[4.60 : 7.20]	[41.0
Woman / 65 and mo	ore years old	[35.30 : 43.30]	[56.70 : 64.70]	[22.20 : 29.30]	[0.80 : 3.00]	[1.30:3.80]	[66.1













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	n 43			
Classification table	:			
Test\Classes	1	2	3	
"Man / 15 to 24 year	1	 0	0	
"Man / 25 to 34 year	10	1	0	
"Man / 35 to 44 year	0	1	0	
"Man / 45 to 54 year	0	1	0	
"Man / 55 to 64 year	10	1	0	
"Man / 65 and more y	0	0	1	
"Woman / 15 to 24 ye	1	0	0	
"Woman / 25 to 34 ye		1	0	
"Woman / 35 to 44 ye		1	0	
"Woman / 45 to 54 ye		1	0	
"Woman / 65 and more	0		1	
Classification Summa	ry :			
Class\Class	1	2	13	
1	2	0	0	
2	10	8	0	
3	0	0	2	
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DATA

Sampling frame

Master Sample - list of housing units

(dwellings)

sampling unit - dwelling

observation unit - individual







	key	rot	sex	age_group	marital_status	economic_activity
	1510203011	1/2	Male	55 <= age <= 64	Married	Wholesale and retail trade, repairs
	1510204112	1/6	Male	35 <= age <= 44	Single	Construction
	1511203211	1/1	Male	35 <= age <= 44	Married	Manufacturing
	1511203511	1/2	Male	35 <= age <= 44	Married	Manufacturing
	1511203512	1/2	Female	25 <= age <= 34	Married	Other Services
	1511203711	1/2	Male	45 <= age <= 54	Married	Manufacturing
	1511203712	1/2	Female	45 <= age <= 54	Married	Manufacturing
	1511203713	1/2	Male	15 <= age <= 24	Single	Manufacturing
	1511203714	1/2	Female	15 <= age <= 24	Single	Manufacturing
	1511203811	1/2	Female	15 <= age <= 24	Single	Manufacturing
	1511203911	1/6	Male	35 <= age <= 44	Married	Manufacturing
	1511203912	1/6	Female	35 <= age <= 44	Married	Manufacturing
	1511204111	1/3	Female	35 <= age <= 44	Divorced or Separated	Other Services
	1511204411	1/4	Male	45 <= age <= 54	Married	Manufacturing
	1511204412	1/4	Female	45 <= age <= 54	Married	Manufacturing
Ĩ	1511204413	1/4	Male	15 <= age <= 24	Single	Wholesale and retail trade, repairs
	1511204511	1/4	Male	55 <= age <= 64	Married	Manufacturing
	1511204611	1/5	Female	45 <= age <= 54	Divorced or Separated	Other Services
	1511204711	1/5	Female	35 <= age <= 44	Married	Other Services

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		sex	age_group				
	2/6	Female (0.45), Male (0.55)	45 <= age <= 54 (0.22), 35 <= age <= 44 (0.28), 55 <= age <= 64 (0.08), age	>= 65 (0.02), 25 <= age <= 3			
	2/5	2 / 5 Female (0.46), Male (0.54) 45 <= age <= 54 (0.22), 35 <= age <= 44 (0.25), 55 <= age <= 64 (0.14), age >= 65 (0.03), 25 <= age <= 3					
Symbolic	2/3	2/3 Female (0.47), Male (0.53) 45 <= age <= 54 (0.25), 35 <= age <= 44 (0.22), 55 <= age <= 64 (0.12), age >= 65 (0.02), 25 <= age <= 3					
	2/4	2 / 4 Female (0.45), Male (0.55) 45 <= age <= 54 (0.22), 35 <= age <= 44 (0.22), 55 <= age <= 64 (0.14), age >= 65 (0.04), 25 <= age <= 3					
tabla	2/7	Female (0.47), Male (0.53)	45 <= age <= 54 (0.23), 35 <= age <= 44 (0.24), 55 <= age <= 64 (0.12), age	>= 65 (0.04), 25 <= age <= 3			
Table	171	Female (0.45), Male (0.55)	45 <= age <= 54 (0.22), 35 <= age <= 44 (0.26), 55 <= age <= 64 (0.13), age	>= 65 (0.03), 25 <= age <= 3			
	2/2	Female (0.47), Male (0.53)	45 <= age <= 54 (0.23), 35 <= age <= 44 (0.24), 55 <= age <= 64 (0.13), age	>= 65 (0.03), 25 <= age <= 3			
	1/5	1 / 5 Female (0.46), Male (0.54) 45 <= age <= 54 (0.21), 35 <= age <= 44 (0.25), 55 <= age <= 64 (0.14), age >= 65 (0.02), 25 <= age <= 3					
	1/2	Female (0.47), Male (0.53)	(0.47), Male (0.53) 45 <= age <= 54 (0.23), 35 <= age <= 44 (0.24), 55 <= age <= 64 (0.13), age >= 65 (0.03), 25 <= age <= 3				
	1/3	1 / 3 Female (0.47), Male (0.53) 45 <= age <= 54 (0.25), 35 <= age <= 44 (0.21), 55 <= age <= 64 (0.12), age >= 65 (0.02), 25 <= age					
	1/6	Female (0.44), Male (0.56)	3) 45 <= age <= 54 (0.21), 35 <= age <= 44 (0.28), 55 <= age <= 64 (0.08), age >= 65 (0.02), 25 <= age <= 3				
	1/4	Female (0.45), Male (0.55)	45 <= age <= 54 (0.23), 35 <= age <= 44 (0.21), 55 <= age <= 64 (0.13), age	>= 65 (0.03), 25 <= age <= 3			
7 = sex = Female (0. age_group = 45 < marital_status = economic activit	47), Male (0. := age <= 54 Married (0.6 y = Real sta nentary occ	.53) I (0.23), 35 <= age <= 4 9), Single (0.22), Divore te, ren (0.07), Other Sei u (0.16), Technicians ai vee (0.79). Other profes	4 (0.24), 55 <= age <= 64 (0.12), age >= 65 (0.04) 25 <= age ced or Sep (0.05), Widow (0.03) vices (0.21), Wholesale and r (0.17), Agriculture hu (0.06), d (0.10), Professionals (0.08), Service workers (0.15), Craft sio (0.02), Self-employed (0.19)	SOL Symbolic			









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SOEdit	or - AAA.FIL - ROTTOT.SDS - [Table]	× 🖭
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	education_level	rot_cl
2/6	lower secondary (0.66), higher educatio (0.14), without educati (0.05), upper secondary (0.15)	6
2/5	lower secondary (0.66), higher educatio (0.12), without educati (0.05), upper secondary (0.17)	5
2/3	lower secondary (0.63), higher educatio (0.15), without educati (0.06), upper secondary (0.16)	3
2/4	lower secondary (0.67), higher educatio (0.11), without educati (0.06), upper secondary (0.15)	4
277	lower secondary (0.66), higher educatio (0.13), without educati (0.06), upper secondary (0.15)	1
171	lower secondary (0.64), higher educatio (0.12), without educati (0.06), upper secondary (0.18)	1
2/2	lower secondary (0.62), higher educatio (0.15), without educati (0.06), upper secondary (0.17)	2
1/5	lower secondary (0.66), higher educatio (0.12), without educati (0.06), upper secondary (0.16)	5
1/2	lower secondary (0.61), higher educatio (0.15), without educati (0.06), upper secondary (0.18)	2
1/3	lower secondary (0.62), higher educatio (0.15), without educati (0.06), upper secondary (0.17)	3
1/6	lower secondary (0.66), higher educatio (0.14), without educati (0.05), upper secondary (0.15)	6
11/4	lower secondary (0.68), higher educatio (0.11), without educati (0.06), upper secondary (0.15)	4











Analysis System for Symbolic Official data



Manager:	FUNDP (B)
Statistical Institutes:	INE (P), STATFI (FI), EUSTAT (E)
Universities:	DAUPHINE (F), DIB (I), DMS (I), FUNDPMa (B), FEP (P), UOA (GR), RWTH (D), UFPE (Br)
Research Centers:	INRIA (F)
Industries:	CISIA (F)
Other Institutions:	TES (L)







References

- Analysis of Symbolic Data: Exploratory Methods for Extracting Statistical Information from Complex Data -BOCK, H.H.; DIDAY, E.; Springer, 2000
- SODAS Reference Manual
- Download SODAS I and several information: www.ceremade.dauphine.fr/~touati/sodas-pagegarde.htm
- · ASSO site
 - www.assoproject.be
- Journal of Symbolic Data Analysis www.jsda.unina2.it