

UNSD - EG-TUS Virtual Meting

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ISTAT innovation plan for TUS initiatives and plans to improve time-use data collection in Italy

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The Italian Time Use Survey: a long European history...and beyond!

• 1ST IT edition 1988-1989: Multipurpose Survey on Time Use (3,729 households, 38,110 day diaries)

EU Wave 2000

EU Wave 2010

EU Wave 2020

- In EU: in the 90's Eurostat pilot surveys project
 - Eurostat Harmonises European Time Use Survey

Guidelines: HETUS 2000

• IT 2002-2003 edition (21,075 households, 51,206 day diaries)

Updated Guidelines: HETUS 2008

- **IT 2008-2009 edition** (18,250 households, 40,945 day diaries)
- **IT 2013-2014 edition** (19,093 households, 41,229 day diaries)

Updated Guidelines: HETUS 2019

• IT 2022-2023 edition

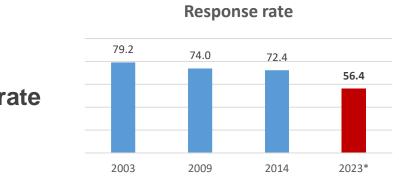
December 2022 - November 2023 (\simeq 15,000 households, \simeq 30,000 day diaries)

In Italy TUS: is mandatory every 5 years by the National Law No. 53 of 2000 to monitor gender differences in unpaid work

2018 - today UNSD - Expert Group on Innovative and Effective Ways to Collect Time-Use Statistics - MHI



Increasing problems with the 'traditional' Time Use Survey

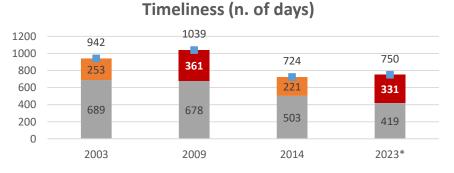


• Decreasing in response rate

• Increasing problems with the survey network

(1st stage units – Municipalities): The municipal survey network is grappling with increasing statistical burden and decreasing public budget

staff reduction in the face of increasing statistical demands: Permanent Census of the **Population**, annual social survey on EU-ICT module and well-being indicators, mandatory reporting from population registers, etc.

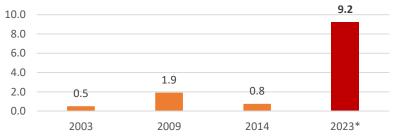


N. of days for outsourced service work

■ No. days from for internal data editing and checking and validation phase

- increased presence of one-person households, hard to find at home
- growing wariness of respondents to meet strangers for a face-to-face interview

Non response rate due to nonparticipation of the municipality



Timeliness too poor and costs too high Ο

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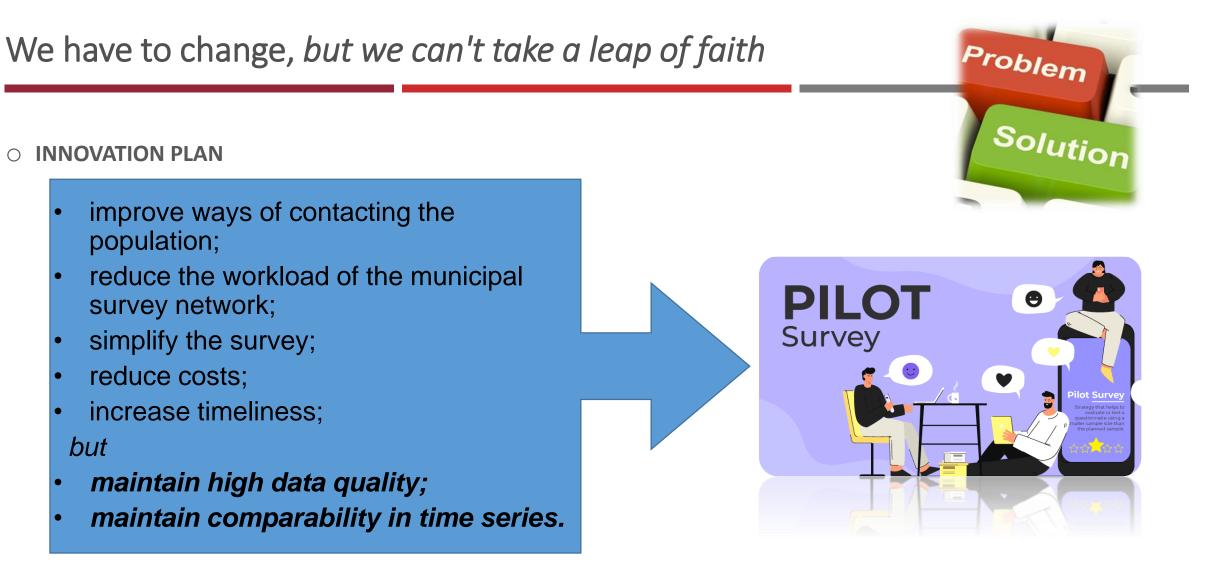
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the "paper cycle" is obsolete & out of time

"printing and sending questionnaires & diaries to the survey network"/"returning questionnaires & diaries to central office"/"registration and coding full post-coded paper diaries outsourced to external services"



Total: no. of days between the end of the survey and data dissemination



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The innovation strategy for Time use survey

Three strands of innovation:

1. SIMPLIFY the survey to provide estimates on time use at reduced intervals (every five years

according to Italian Law No. 53/2000) → March-May 2023: pilot on a "LIGHT SURVEY"

PILOT Survey

Same survey mode - different tool

- 2. TEST new tools & technique to innovate the current full survey (ESSnet Smart Survey Implementation project) → Q3 2024: large test (≈2000 sample units) to study mode effect
 - geolocation vs self-reporting location
 - paper diary vs MOTUS app
 - use of interviewers "on demand"



3. STUDY the use of AI techniques applied to coding textual descriptions of activities and locations, to improve timeliness and reduce costs in coding residual paper diaries in a mixed-mode survey strategy → 2024 onwards









To **simplify** the Time Use Diary for respondents (**no textual descriptions**) To **simplify data processing** (**no coding** of textual descriptions) To **enable an easy transition to online filling out** of "light" diaries

Burden on respondents Costs

A sample of about 4,000 households was surveyed from March to May 2023

Objective:

To assess whether the *Light* diary can estimate the main indicators on daily life time as accurately as the *Full* diary, **using the** *same survey mode*: *paper diary left-behind by an interviewer*.

Timeliness

Ex. Daily Time spent on unpaid domestic and care work





The current Time schedule: post-coded textual information



	Main activity Free text	Parallel activity Free text	ICT use	Location Free text		njoyment Pre-coded
6 Dalle 07.00 Alle 10.00	Che cosa sta facendo? Indichi le attività che svolge ad intervalli di tempo di 10 minuti! Descriva separatamente lo spostamento dall'a indicando il mezzo di traspor	Che cos'altro sta facendo? Indichi l'attività contemporanea più importante titività che lo ha determinato, to utilizzato!	Sta usando Internet, un PC, uno smartpho- ne, o altri dispositivi per queste attività?	Dove si trova o come si sta spostando? Indichi il luogo in cui si trova o il mezzo di trasporto che sta usando	È da solo o con persone che conosce? Non risponda se sta a letto o sta dormendo. Indicare almeno una risposta per riga. Da Con familiari conviventi Con altre solo Madre Padre Coriuge/ Figiola Fratelo/ Altri che partrer sorela familiari convoso	Per le persone di 11 anni e più 7 Questo momento è piacevole? (da -3: per niente piacevole, a +3: molto piacevole,
07.00 - 07.10	Dormo			A casa		-3 -2 -1 0 +1 +2 +3
07.10 - 07.20	Mi sto lavando					-3 -2 -1 0+1+2+3
07.20 - 07.30	Ho svegliato mio figlio	Parlo con mio figlio				-3 -2 -1 0 +1+2+3
07.30 — 07.40	Ho preparato la colazione	Ho ascoltato la radio				-3 -2 -1 0 +1 +2 +3
07.40 — 07.50	Ho fatto colazione	Ho letto il quotidiano				-3 -2 -1 0 +1+2+3
07.50 — 08.00	Lavo i piatti	Ascolto la radio	X			-3 -2 -1 0 +1 +2 +3
08.00 - 08.10	Ho rifatto i letti	, n n				-3 -2 -1 0 +1+2+3
08.10 - 08.20	Sono andata a scuola per accompagnare mio figlio	Ho parlato con mio figlio		A piedi		-3 -2 -1 0 +1+2+3
08.20 — 08.30	Sono andata al lavoro			In autobus		-3 -2 -1 0 +1 +2 +3
08.30 — 08.40	Lavoro (prima o unica occupazione)			In ufficio		-3 -2 -1 0 +1+2+3
08.40 — 08.50				" " " " " " " " " " " " " " " " " " "		-3 -2 -1 0 +1 +2 +3

People are required to fill out the diary describing, mainly in free text, how they spent time during the day



The *light* Time schedule: pre-coded information consistent with UN - MHI



ACTIVITIES	Che cosa sta face	ndo? Indichi una attività o al massimo due per ogni colonna, ad inter- valii di tempo di 10 minuti!		07:0	0 40 50	08:00		09:00 10 20 30 40 50	10:00	11:00 10 20 30 40 50	UNSD MHI-codes	HETUS-MHI-code		HETUS_REV-MHI-code name (= identical to UNSD MHI-codes names)
26 pre-coded	Cura Dormire	·	01	x x							21	1		fleening
	personale Mangiar	e, bere	02			x					21	1		Sleeping
	v	cura personale	03	X	X						22	2	Personal care	Eating and drinking
and the second		si per svolgere delle attività	04			x								
	Lavoro Lavoro Scuola Scuola.		05				xx				23	3		Personal hygiene and care
v 👻 /-	, , , , , , , , , , , , , , , , , , , ,	e, apparecchiare/sparecchiare, lavare i piatti	00		×						1	4	Work/ income generating activities	Working in paid job or income generating activities
		ordinare la casa, giardinaggio	07											
		stirare e mettere a posto panni	- 09								2	5		Making goods for own household or family use
		animali da compagnia	10								13	6	School	Education
		zione, riparazioni (casa, veicoli)	11											
O PRO S STREET	e della famiglia Spesa, s	shopping, altri acquisti di beni	12			X					4	7		Preparing and serving food and meals for own household members
- 11 ° 102		servizi e altra gestione della casa e della famiglia	13			$>\!\!\!>\!\!\!<$					5	8		Cleaning own or family dwelling, gardening
		bambini/ragazzi della famiglia	14									-		
		iuti ad adulti della famiglia	15								7	9		Cleaning and care of clothing and footwear of own household members
		one di beni per la propria famiglia	16								9	10		Taking care of pet of own household or family
		socializzare, uso social media	17									10	Caring for the home and for the family	
	Deeeeg	e a spettacoli, mostre, musei	18								6	11		Maintaining and making small repairs in own or family dwelling
	Tempo libero Leggere	jiate, sport	20								10	12		Channeline for some honorekold og forsette
		e/ascoltare TV, video, radio, musica	21			x					10	12		Shopping for own household or family
		mpi, giochi e altre attività di tempo libero	22								8	13		Managing own household
		iato in gruppi o associazioni	23								11			
		etti ad altre famiglie, comunità, ambiente	24								1 1	14		Taking care of own (household or family) child
		azione religiosa e sociale	25								12	15		Taking care of or helping adults (own household or family)
	Altra attività Specific	are:	26											
ICT use	Sta usando Internet?			07:00		08.00		09:00	10:00	11:00	3	16	Volunteering	Volunteer work
			27	10 20 30	40 50	10 20 30 4	40 50	10 20 30 40 50	10 20 30 40 50	10 20 30 40 50	15	17	Participation	Community participation, civic/related responsibilities, religious
-		a usando Internet, Smartphone, Pc o altri dispositivi	27	07:00		08:00		09:00	10:00					practices
	Dove si trova o co	ome si sta spostando?			40 50	10 20 30 4	40 50	10 20 30 40 50	10:00	10 20 30 40 50	14	18		Socializing and communication
	A casa		28			x		10 20 00 40 30		10 20 30 40 0	16	19		Cultural, entertainment and sports events
LOCATION	Luogo Luogo d	i lavoro/Scuola	29				XX							
	Altro luo		30								18	20		Sport participation and exercising
6 pre-coded	A piedi/k	ici	31			X					17	21	Leisure time activities	Hobbies, games and other pastime activities
		ubblico (treno, autobus, metro)	32			x x	' <u> </u>				1/	21		nobles, games and other pastime activities
	Mezzo p	rivato (auto, moto)	33								19	22		Reading for leisure
	È da solo o con p	ersone che conosce?		07:00 10 20 30	40 50	08:00 10 20 30 4	40 50	09:00 10 20 30 40 50	10:00 10 20 30 40 58	11:00 10 20 30 40 50	20	23		Watching TV/Listening to radio or streaming
	_Da solo,	con sconosciuti	34	X	×	xx								
With whom	Con chi sta Con per		35		x x						24	24	Travelling	Travel
	Con per	sone non conviventi	36				XX				25	25	Other activity	Other (specify)
3 Pre-coded -														

No information on Enjoyment

1

Same activities proposed by UN- MHI:



Italy just differentiates among direct and organization-based volunteering

Full Survey vs Pilot *light* survey - First results: (non) response rates

■ Individual response rate ■ Diary refusal rate ■ Individual nonresponse rate due to household nonresponse

2° QUARTE 41.6 FULL 50.9 7.6 ц 40.5 LIGHT 52.7 6.8 MARCH 40.0 FULL 52.5 7.4 LIGHT 54.6 6.9 38.5 APRIL FULL 43.8 48.9 7.3 LIGHT 41.7 51.3 7.0 ИΑΥ FULL 40.9 51.1 8.0 41.3 LIGHT 52.1 6.7

The LIGHT PILOT survey gets slightly better results than the FULL SURVEY in terms of response rate, so the pre-coded *light* diary seems to be equivalent to the postcoded **full** diary for respondents.



After the data recording we will also share data on the quality of the information collected



Final goals of the innovation strategy for Time Use Survey



