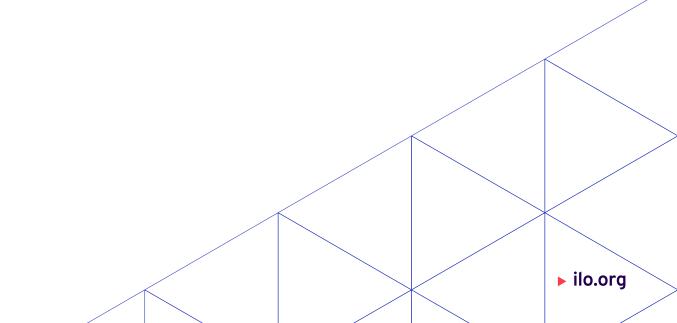


## Labour Force Surveys and modular time use measurement

**UNECE Gender Statistics Workshop** 

10<sup>th</sup> - 12<sup>th</sup> May 2023

Samantha Watson (<u>watsons@ilo.org</u>) Labour Statistician, ILO Department of Statistics





## LFS Modular time use measurement

"Time-use surveys...are a main source of statistics on participation and time spent in ownuse production work...for purposes of individual, household and macroeconomic level analyses."\*

### Time-use surveys (TUS)

#### The main source of statistics on:

- Participation in own-use production work
- Production of goods
- Provision of services
- Time spent in own-use production work
- Production of goods
- Provision of services
- Total working time

### Labour force surveys (LFS)

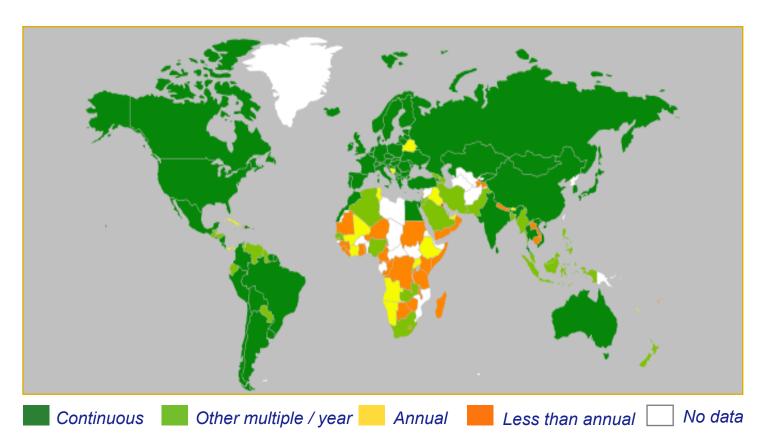
#### The main source of statistics on:

- Labour market indicators
- Job quality and working conditions for persons in employment & unpaid trainee work
- Labour under-utilisation, unemployment and time-related under-employment

Scope to combine strengths - modular time use measurement attached to LFS



### LFS Modular time use measurement



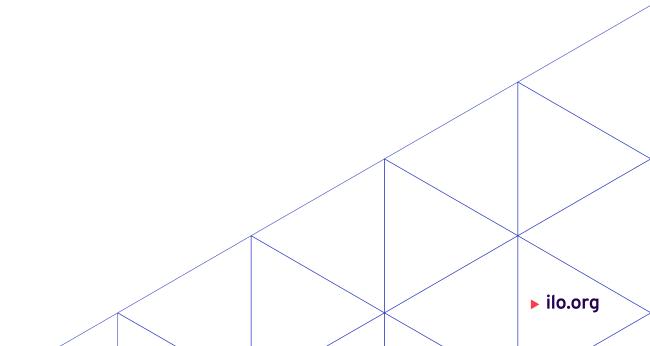
### Modular approaches

can provide a practical solution where an independent TUS is not feasible, when interim statistics are needed between dedicated TUS rounds, and can support detailed analysis of the relationships and trade-offs between paid and unpaid work time, labour force participation, and opportunities for decent work.

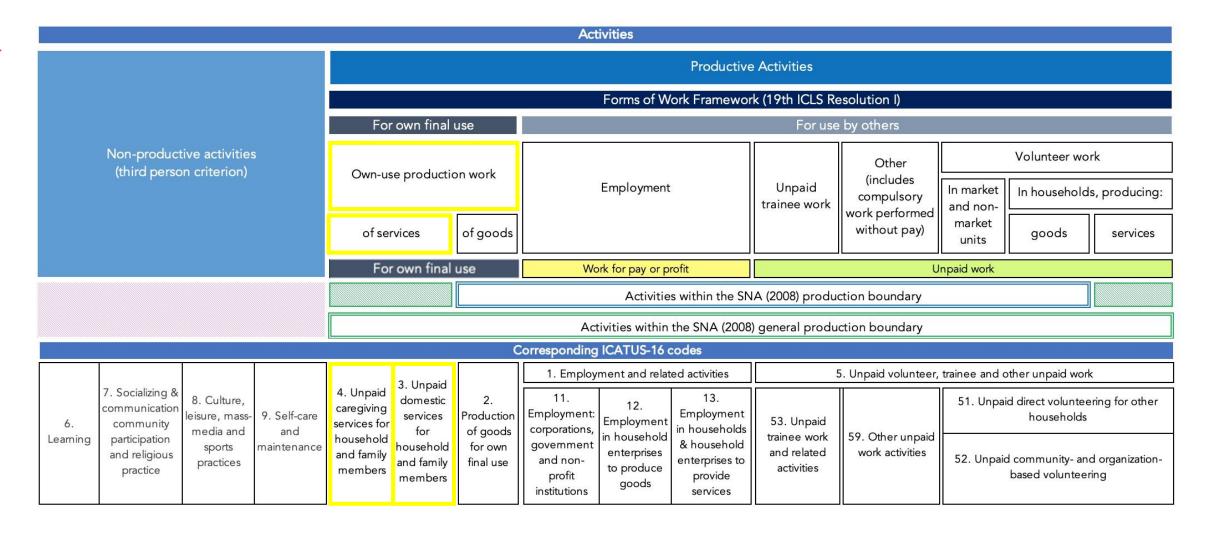
Advancing social justice, promoting decent work



## **Conceptual framework**

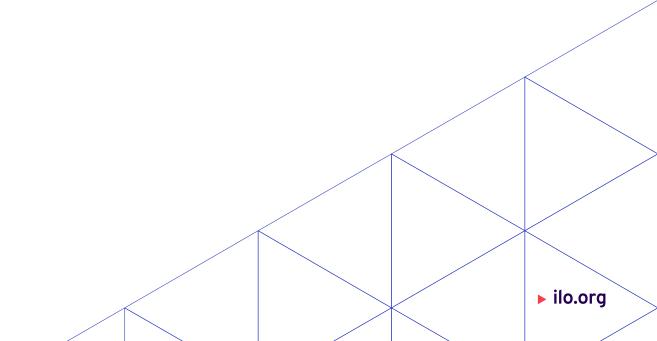








## LFS Modular Time Use Measurement: Pilot Strategy





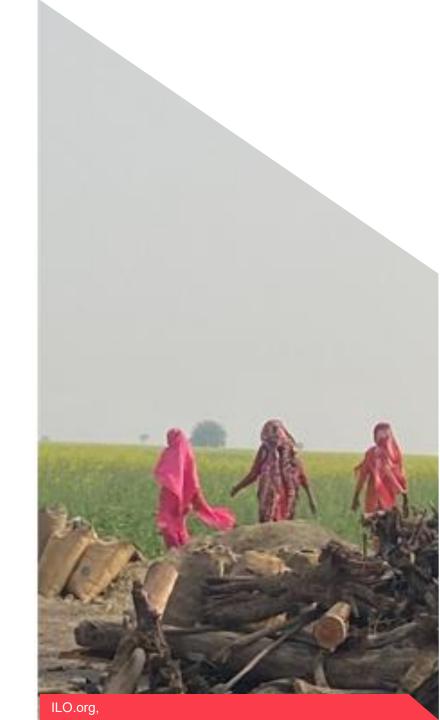
# Closing the gender data gap on unpaid domestic & care work to support monitoring of the 2030 agenda

## **Current project** (with support from data 2×2)

- New LFS light time-use measurement modules suitable for low- and middle-income countries (LMICs) developed and validated
- Practical guidance and tools issued and integrated in the global UN and ILO guidance and capacity-building activities

## **Next steps**

- ▶ Dissemination and advocacy of new measurement tools
- Demonstration at scale: Technical assistance for national level uptake and data to policy in strategic LMICs





## **Pilot strategy**

Key Features of the light time use diary instruments, sample strategy, and field operations for quantitative testing

[Aspects specified for targeted testing]

Interviewer administered (faceto-face) CAPI mode

24 hour "yesterday" recall light diary and stylised listing

96 x 15 minute fixed episodes (light diary) – drop-down roster format Pre-coded activity listing (harmonised to ICATUS-16)

(Conditional)
context variables:
location /co-presence
/ for whom /
remuneration

[Measurement of simultaneity / multitasking targeted for testing] [Code scheme and contextual variables targeted for testing]

Probabilistic preassignment to designated 'diary day'

[Pending recovery schemes targeted for testing]

Minimum of one eligible respondent per household (probabilistically selected)

[Bar on proxy reporting for TU module]

[Eligible population based on parent survey (age 14 or 15+)]



## Overview: Module design, hybrid light diary design features

- ➤ "Closed episodes (96 x 15-minute time slots)
- ➤ Pre-coded activity listing (50 pre-coded activities aligned to ICATUS-16) (Streamlining for final version to reduce to ~40 activities)
- ➤ Conditional context variables (location / with whom / for whom / job linkage / income generation)

  (Streamlining for final version to reduce to three conditional context variables)
- ➤ Summary question sequence: Passive / supervisory care time



## Overview: Module design, hybrid light diary design features

_	1													
			IF ACTIVITY 1 NE 1			IF (ACTIVITY = 4 - 19)	IF (ACTIVITY = 4 - 20) OR (22 - 28)							
						OR (22 - 28)	OR (30, 34-37)	IF (JOB LINKAGE = 1)	SUMMARY / RECOVERY QUESTIONS: ONLY ONCE DIARY IS COMPLETE		IS COMPLETE			
			(SLEEPING)			OR (30, 34-37)	AND (FOR WHOM = 13 - 24)							
		ACTIVITY 1	ACTIVITY 2	Location	With whom	For whom A1	Job linkage A1	Paid / Unpaid A1	RECOVERY: SCT1 RECO		: SCT2	RECOVERY: SCT3	RECOVER	RY: SCT4
						For whom A2	Job linkage A2	Paid / Unpaid A2						
		Thinking back to	Were you doing anything	Where were you	Who was there with	Who did you do	Did you do [ACTIVITY 1] for (one	Did you do [ACTIVITY 1]	Were there any	Who was that?		Were there any	Who was that?	,
		yesterday, what were	else at the same time as	when you were	you when you were	[ACTIVITY 1] for?	of) your job(s)?		times yesterday			times vesterday	ALL THAT APPL	
		you doing at [TIME]?	[ACTIVITY 1]?	[ACTIVITY 1]?	[ACTIVITY 1]? That is,	[ACTIVITY 1] TOT:	on your job(s).		when you were			when you were	ALL IIIAI AFFL	.'
		you doing at [TIME]!	[ACTIVITY 2].	[ACIIVITY 1]:	close enough that you				responsible			responsible for		
			Until when?											
		Until when?	Ondi wilen:		could see them, or				[supervising /			[supervising /		
					hear them if they				watching over /			watching over /		
		[15 MINUTE CLOSED	[15 MINUTE CLOSED		called for you?				keeping an eye on]			keeping an eye on]		
		EPISODES]	EPISODES]						a child aged under			an adult aged 18		
Slot	Hour								18, staying close by			or over who needs		
			[NB: Multiple selection						in case of need?			help with daily life		
			unconstrained for round									- staying close by		
			one piloting – may revert									in case of need?		
			to constrained selection]									in case of ficed.		
			PROBED RESPONSE:											
			For instance, were you											
			listening to the radio or											
			television, talking with a											
			family member, friend or											
			neighbour, looking after											
			or keeping an eye on											
			someone, eating snacks,											
			drinking tea?											
			-			055 0005 1107	255 2205 1107			SEE CODE LIST	I		SEE CODE LIST	1
		SEE CODE LIST	SEE CODE LIST	SEE CODE LIST	SEE CODE LIST	SEE CODE LIST	SEE CODE LIST	01to generate income - even if only	ACTIVITIES LIST			ACTIVITIES LIST		
		98: PREFER NOT TO SAY	ALL THAT APPLY:	98: PREFER NOT TO	98: PREFER NOT TO SAY	98: PREFER NOT TO SAY		a small amount - for you or your		ALL THAT APPLY			ALL THAT APPLY	1
		99: DON'T KNOW	Restrict multiple selection	SAY	99: DON'T KNOW	99: DON'T KNOW	99: DON'T KNOW	family?	ROSTER WITHIN			ROSTER WITHIN		
			if 38 or 97.	99: DON'T KNOW				02in exchange for products or	EACH ACTIVITY 1:			EACH ACTIVITY 1:		
			97: NOTHING ELSE											
			98: PREFER NOT TO SAY					goods?	15 MINUTE CLOSED			15 MINUTE		
			99: DON'T KNOW					03in exchange for room and board?	EPISODES +			CLOSED EPISODES		
		1	ROSTER WITHIN					04as unpaid training or on-the-job	CONTINUOUS			+ CONTINUOUS		
		1	ACTIVITY 1: 15 MINUTE						OPTION			OPTION		
		1	CLOSED EPISODES +					experience?						
			CONTINUOUS OPTION					05 NONE OF THE ABOVE						
1	04:00 - 04:15 04:15 - 04:30													
2					-								-	
3	04:30 - 04:45													-
4	04:45 - 05:00	-		-	-					-			1	-
96	03:45 - 04:00													
20	03.45 - 04:00	1		1	I	l .	1	I.	1			I	1	1



## Overview: hybrid light diary design features, activity linkage to ICATUS-16 (indicative selection)

#### **ACTIVITY DOMAIN (ICATUS-16)** CONTEXT-BASED CLASSIFICATION 1 Employment and related activities a Remunerative motive (income generating for individual or household) 2 Production of goods for own final use b No remunerative motive + For whom = self i hh member(s) i family member(s) 3 Unpaid domestic services for household and family members c No remunerative motive + For whom = other Unpaid caregiving services for household and family members RECOVERY-BASED CLASSIFICATION 5 Volunteering (Direct and Organisation based) 5 Trainee and other unpaid work d Probed-for childcare e Probed-for adultcare Socializing and communication, community participation and religious practice 8 Culture, leisure, mass-media, sports practices 9 Self-care and maintenance

1	Sleeping or napping (including sleeplessness)							
	Personal hygiene and health							
3	Eating or drinking							
	Cooking, baking, preparing, or serving meals, snacks, beverages, and cleaning dishes tutensils tOR preserving, storing, arranging food stocks	11, 13		31		51, 52		
5	Processing I manufacturing foods, beverages, herbs, medicines, tobacco (e.g. winnowing, grinding, butchering)	11, 12	22			51, 52		
	Fetching water from natural and other source	11, 12	24[2]			51, 52		
	Gathering / processing fire-wood/strawldung for fuel	11, 12	24(1)			51, 52		
	Gathering / processing wild products (e.g. fruits, nuts, seeds, mushrooms, plants, leaves, bark)	11, 12	21			51, 52		
	Cleaning and tidying indoors and disposal of household rubbish	11, 13		32		51, 52		
	Outdoor cleaning and upkeep - including gardening	11, 13		32		51, 52		
	Laundry (washing, drying, ironing, folding, etc.) and repair / maintanance of clothesitextiles/shoes	11, 13		34 37		51, 52		
	Shopping forlpurchasing goods	11, 13		37		51, 52		
	Paying bills, making appointments, applications, budgeting and administration, planning, organising activities	11, 13		35	41, 42	51, 52		
	Providing physical care for children (e.g., feeding, cleaning, medical care)	11, 13			41	51, 52		
	Teaching, training, helping, or reading to children	11, 13			41	51, 52		
16	Playing games and sports with children	11, 13			41	51, 52		
	[supervising / watching over] children	11, 13			41	51		
	Providing physical care, practical assistance, or emotional support to adults	11, 13			42, 43	51, 52		
	[supervising / watching over] (ill, injured, frail, or disabled) adults	11, 13			42	52		
	Waged or salaried employment OR Self Employment OR Helping without Pay in a Farm or Business Enterprise	11, 12, 13				51, 52		
	Unpaid traineeship or internship					53		
	Looking for work or setting up a new business	16, 17						
	Growing crops (includes kitchen garden), horticulture (clearing, planting, fertiling, irrigating, weeding, picking / harvesting)	11, 12	21			51, 52		
	Tending to livestock (includes accompanying while grazing), milking, gathering wool / eggs / other products	11, 12	21			51, 52		
25	Tending to domestic animals / pets (e.g., dogs / cats), includes feeding, excercising, cleaning, grooming, taking to vet	11, 13		36		51, 52		
	Fishing / Aquaculture / Forestry / Logging / hunting or trapping animals,	11, 12	21			51, 52		
	Mining, Quarrying, or Construction, Major Rennovations, or Major Repairs	11, 12	21, 23			51, 52		
	Minor Repairs and Maintanance of Buildings / Land (includes roads, tracks, paths). Installation, maintenance, repairs to Vehicles / Machinary / Tools and Equipment (includes roads).			33		51, 52		
	Weaving, knitting, sewing, embroidering, tanning, bead work, textile-1 leather-1 metal-, wood-1 stone-1 brick-work	11, 12	22			51, 52		
	Studying, learning	15					61, 62, 63, 69	
31	Community or social organising/Environmental / nature conservation / protection of wild or street animals					51, 52		
32	Socializing (or visiting) with I talking to friends I family I neighbours, Participating in community festivals I celebrations I events OR civic duties (e.g. voting)				44	51, 52		71, 72, 73
33	Religious practice (individual or collective)				44	51, 52		74



## Overview: Module design, hybrid light diary design features, context variables

#### Location

#### >>ATTENTION: QUERY CHANGE IN LOCATION IF INTERVENING TRAVEL NOT SPECIFIED<<

- 01. OWN HOME (OWN DWELLING OR IMMEDIATE SURROUNDS)
- 02. AT CLIENT OR EMPLOYERS HOME (DWELLING OR IMMEDIATE SURROUNDS)
- 03. OTHER PERSONS' HOME (OWN DWELLING OR IMMEDIATE SURROUNDS)
- 04. FIELD, FARM, FOREST, ORCHARD, RIVER / STREAM / LAKE
- 05. FACTORY, CONSTRUCTION SITE, QUARRY / MINE
- 06. SCHOOL OR OTHER EDUCATIONAL ESTABLISHMENT
- 07. STREET, MARKET, PARK, OTHER OUTDOOR PUBLIC OR CC
- 08. OFFICE, SHOP, BANK, HOSPITAL, HOTEL, RESTAURANT, TI
- 09. IN TRANSIT
- 10. OTHER (SPECIFY)

98: PREFER NOT TO SAY

99: DON'T KNOW

#### With whom

01. ALONE (INCLUDES WITH STRANGERS IN I

#### ALL THAT APPLY

- 02. SPOUSE
- 03. OTHER ADULT HOUSEHOLD OR FAMILY I
- 04. OTHER ADULTS KNOWN TO RESPONDEN
- 05. OWN OR SPOUSE'S CHILD(REN
- 06. GRANDCHILD(REN)
- 07. OTHER FAMILY CHILDREN
- 08. OTHER CHILDREN
- 98: PREFER NOT TO SAY
- 99: DON'T KNOW

#### FOR WHOM

#### ALL THAT APPLY:

- 01. SELF
- 02. SPOUSE
- 03. OTHER ADULT HOUSEHOLD OR FAMILY MEMBERS
- 04. OWN OR SPOUSE'S CHILD(REN)
- 05. GRANDCHILD(REN)
- 06. OTHER FAMILY CHILDREN
- 07. OTHER CHILDREN
- 08. OWN-BUSINESS OR HOUSEHOLD / FAMILY BUSINESS
- 09. EMPLOYER / LANDLORD
- OTHER ADULTS OR HOUSEHOLDS (FRIENDS / NEIGHBOURS / STRAN

JOB LINKAGE

02. YES: PRIMARY JOB

03. YES: SECONDARY JOB

05. YES: NON-LISTED JOB

98: PREFER NOT TO SAY

99: DON'T KNOW

04. YES: OTHER LISTED JOB

01. NO

- 11. AS PART OF A LABOUR EXCHANGE
- 12. FOR A CHARITY, COMMUNITY GRC
- 13. STATE MOBILISATION
- 14. LIVESTOCK OR PET
- 15. WILD OR STREET ANIMALS / NATU
- 16. OTHER: SPECIFY
- 98: PREFER NOT TO SAY
- 99: DON'T KNOW

#### PAID / UNPAID

- 01...to generate income even if only a small amount for you or your family?
- 02...in exchange for products or goods?
- 03...in exchange for room and board?
- 04...as unpaid training or on-the-job experience?
- 05 NONE OF THE ABOVE
- 98: PREFER NOT TO SAY
- 99: DON'T KNOW

O- DON'T KNOW



## Overview: Module design, stylised listing

Time use module STY: Stylised (24 hours)	Varying degrees of detail for each domain					
Module SLP: Sleep						
Module SLC: Self-care						
Module ETG: Eating	<b></b>					
Module EDU: Education and learning	MODULE UDW: UNPAID DOMESTIC WORK					
Module ICG: Income generation	The next questions are about household tasks or chores that you may have done yesterday, for yourself, your household, or for family members living elsewhere.					
Module TES: Traineeships	DW_1					
Module OPG: Own-use production of goods	Yesterday, from the time you woke up until the time you went to sleep did you spend any time?  ALL THAT APPLY					
Module UDW: Unpaid domestic work	01Preparing or tending a stove, fireplace, furnace, or boiler 02Cooking or serving meals, drinks, or snacks					
Module UCC: Unpaid care work, childcare	03Setting the table or arranging the dining area, clearing away and washing dishes, cooking vessels, utensils 04Cleaning or tidying indoors [sweeping, vacuuming, mopping, scrubbing, polishing, taking out rubbish or recycling]					
Module UCA: Unpaid care work, adult care	05Cleaning or tidying outdoor areas [e.g., stoop, balconies, terraces, garages, sheds, driveways]					
Module VOL: Volunteering	06Gardening or tending to ornamental plants, trees, shrubs, hedges, flowers 07Doing laundry [washing, drying, ironing, folding, putting away clothes, linens, etc.]					
Module SOC: Socialising and community events	08Mending, patching, or altering clothes or shoes, linens, or soft furnishings  09Repairing, IF UDW_1 = 01					
Module REP: Religious Practice	10Feeding, g					
Module LTA: Leisure time	How much time did you spend preparing or tending a stove, fireplace, furnace, or boiler? HHMM  If UDW_1 = 02					
Module TPA: Typical day	LIDW 2B					



## Overview: Module design, hybrid light diary design features, context variables

			Polational	nin to internation	al classificator	, custams		
Module	Number of	Sys					Relationship to international o	lassificatory systems
	questions	(SN	Module	Number of	System of national accounts		Forms of Work Framework	International Classification of Activities for Time Use
SLP_ Sleep	Common: 5			questions	(SNA), 2008		(19th ICLS, 2013)	Statistics (ICATUS), 2016
	Conditional: 1	r	UCA_ Unpaid care work, adult care	Common: 2	- "			Major Division 4:
				Conditional: 12				Unpaid caregiving services for HH & family members
SLC Self-care	Common: 2 Conditional: 4				1454bin 4bin	CNIA (2000)	O	Division 42: Care for dependent adults
_					Within the SNA (2008) General Production Boundary		Own use provision of services (Unpaid work for own final use)	Division 43: Help to non-dependent adult HH & family
		ı			General Produ	iction boundary	(Oripaid work for own final use)	members
								Division 44: Travel related to unpaid caregiving services
								for HH & family members
EAT_ Eating	Common: 2		VOL_ Volunteering	Common: 1	Within the	Within the		Major Division 5:
	Conditional: 2	1		Conditional: 8				Unpaid volunteer, trainee & other unpaid work
	Conditional. 2				SNA (2008)	SNA (2008)	Volunteer work	Division 51: Unpaid direct volunteering for other
EDU Education and learning	Common: 1	N			Production	General	(Unpaid work for use by others)	households
EBO_ Education and rearring	Conditional: 2				Boundary	Production	(	Division 52: Unpaid community/organization-based
ICG Income generation	Common: 2				,	Boundary		volunteering
ica_ income generation	Conditional: 8			<del> </del>				Division 54: Travelling time related to volunteering
TES Traineeships	Common: 1		SOC_ Socialising & community participation					Major Division 7:
1E3_ Traineeships	Conditional: 1			Conditional: 5	Non-productive activities			Socializing and communication, community participatio and religious practice
	Conditional. 1							Division 71: Socializing and communication
						inve activities ion criterion)	N/a	Division 71: Socializing and communication  Division 72: Participating in community cultural/social
					(IIIIIu-pers	on criterion)		events
000 0	6							Division 75: Travel related to socializing and
OPG_ Own-use production of goods	Common: 2							communication, community participation
unit i i i i	Conditional: 16		REP_ Religious Practice	Common: 1				Major Division 7:
UDW_Unpaid domestic work	Common: 2			Conditional: 3				Socializing and communication, community participatio
	Conditional: 16	Gei			Non-productive activities		N/a	and religious practice
UCC_ Unpaid care work, childcare	Common: 2				(Inira-pers	on criterion)		Division 74: Religious practices
	Conditional: 15							Division 75: Travel related to religious practices
		Ger	LTA_ Leisure time	Common: 1	Non-produc	tive activities	N/a	Major Division 8:
				Conditional: 7	(Third-person criterion)		IN/ d	Culture, leisure, mass-media and sports practice
			TPA_ Typical day	Common: 1	N/a N/a		N/a	N/a
				Conditional: 1		·, ·	14/4	N/u



## Field testing

Qualitative phase (REA, SSI and Cognitive Interview series)\* India (Haryana) and Indonesia

### Survey experiment I (India, Haryana)

Experimental design comparing alternative field protocols for 'designated diary days' and assessing alternative strategies for the measurement of under-reported dimensions of caregiving in light diary formats

### **Survey experiment II** (Lesotho)

Experimental design comparing two alternative instrument formats (light diary and stylised)

### Small-scale trial (Indonesia)

Technical assistance to University of Indonesia Research programme requested by NSO to trial modular time use measurement approaches

\*Final round of cognitive interviews as validation exercise in Lesotho (May-June)

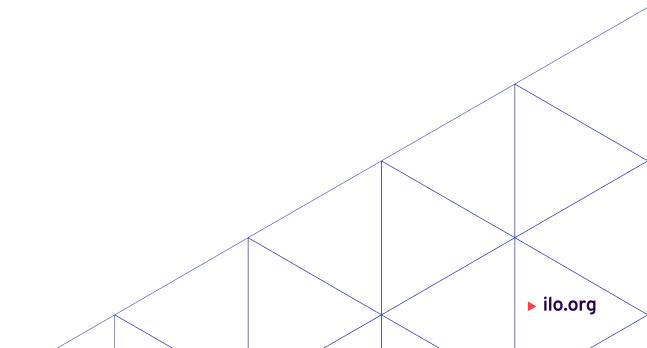








## **Emerging lessons**





## **Emerging lessons**

□ The light diary modules produced data of high quality. Respondents reported an average of 31 activities for the 24 hour reference period. The mean duration of a reported activity was 38 minutes (waking time) and 54 minutes (all time, including sleeping). 0.2% of activities were reported as "don't know / can't remember". 0.3% of activities were recorded as "other, specify" (manually assigned to the correct pre-coded activity prior to analysis).

**EMERGING LESSON:** The pre-coded activity list performed well (further aggregation may be possible for purposes of streamlining the listing for ease of navigation in the CAPI tool). Utilisation of the don't know and other, specify response items was minimal.

Overall, 38% of all activities were recorded within a single15 minute interval. A further 28% of activities were of 30 minute duration.

**EMERGING LESSON:** The 15 minute fixed interval emerged as a feasible for interviewers and respondents alike. A longer fixed episode risks unnecessary loss of information.









## **Emerging lessons**

☐ Three alternative strategies were used to combat under-reporting of taken-for-granted aspects of care giving. Results indicated – in line with established findings – that a single activity approach is limited. Only 1% of activities were reported as supervisory care (0.75% childcare, 0.25% adult care). Direct recovery probes identified a further 30% of activities as involving simultaneous childcare (a further 3% involved simultaneous adult care) otherwise unrecorded (these figures are net of parallel reported active care time).

**EMERGING LESSON:** Direct probes may provide an efficient and effective means of recovering time spent on passive / supervisory dimensions of care giving known to be prone to under-reporting. Further refinement may be required for adult care recovery..

☐ Pilot field operations focussed on maintaining high response rates in the presence of additional sample design considerations (namely – a bar on proxy response and a requirement for probabilistic assignment of diary days)

**EMERGING LESSON:** Initial analysis indicates that scheduling appointments to accommodate respondents, combined with substitution protocols for assigned day of week assisted in maintaining high response rates.







▶ ilo.org



### Relevant resources

## **❖** International labour standards, unpaid domestic and care work

- 19<sup>th</sup> International Conference of labour statisticians (<u>LINK</u>)
- ICLS Resolutions & Guidelines (<u>LINK</u>)
- ILO pilot research, LFS modular time use measurement project (<u>LINK</u>)
- ILO STATISTICS CONTACT: statistics@ilo.org

### International standards on time-use measurement

- UNSD convened Expert Group on time use statistics, working to update guidance (<u>LINK</u>)
- UNSD (2005) Guide to producing statistics on time use: measuring paid and unpaid work (LINK)
- UNECE (2013) Guidelines for harmonising time use surveys (LINK)
- ICATUS (2016) International Classification of Activities for Time-Use Statistics (<u>LINK</u>)



## Thank you

**UNECE Gender Statistics Workshop** 

10<sup>th</sup> - 12<sup>th</sup> May 2023

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