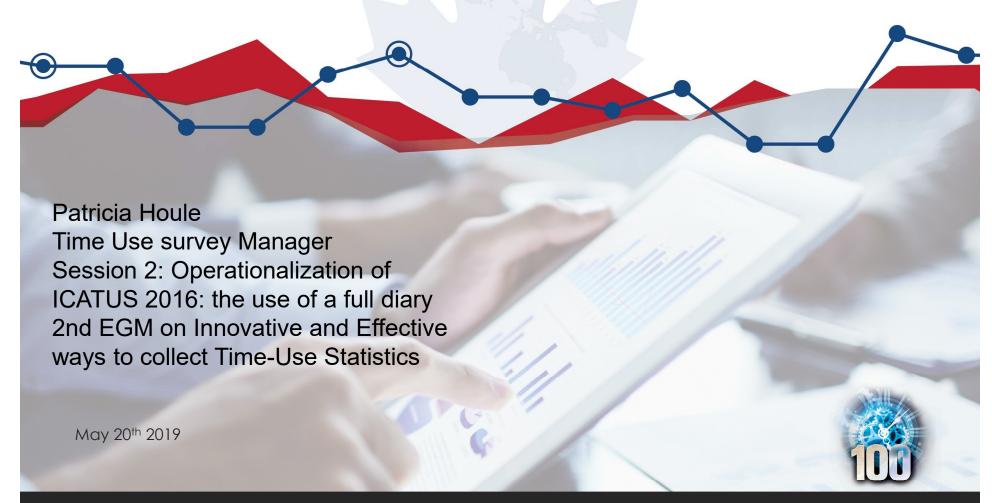
Full diary three-tier coding, the Canadian experience





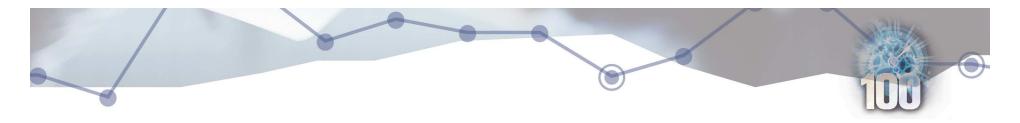
Presentation Outline

- Survey methodology
- Coding structure
- Cati Application
- Three-tier approach, coding and results
- Light diary
- CATI and Electronic Application, coding and results
- Feasibility of three-tier EQ collection
- Time Use considerations



- Methodology
 - Time Use data are collected every 5 to 7 years since 1986.
 (1986, 1992, 1998, 2005, 2010 and 2015)
 - Collection is done during 12 full consecutive months
 - A random sample is drawn from the 10 Canadian provinces.
 - From contacted households, one person 15 years old or more is randomly selected to complete the survey for a specific reference day
 - The retrospective interview must be completed no later than 48 hours from the reference day to enhance recall.





Overview of Time Use survey

- Methodology
 - In contrary to other surveys, a conversational style is used with respondents. The interviewers do not have to stick with asking the diary questions as worded, but instead help the respondent to remember what he did during the 24 hours of his reference day.



Indicators across cycles

- 12 major indicators
 - Personal care
 - Eating and drinking
 - Travel and going from place to place
 - Paid work activities
 - Studying or learning
 - Household chores and maintenance
 - Parental role, caring and help to others
 - Shopping for goods and services
 - Socializing and communicating
 - Civic, religious and organisational activities
 - Sports, exercise and outdoor activities
 - Leisure, hobbies and down time



First Time Use questionnaire for telephone

interview

INTERVIEWER - "X" DAY TO WHICH ACTIVITIES REFER
1 ○ Sunday 2 ○ Monday 3 ○ Tuesday 4 ○ Wednesday 5 ○ Thursday 6 ○ Friday 7 ○ Saturday

These next questions ask about your daily activities. We need to know in as much detail as you can recall, what you did during (refer to reference day) starting at 4:00 o'clock in the morning. This section will provide information on transportation activity, amount of time spent on housework, leisure, paid work, etc. You may have been doing more than one thing at a time but we are interested in the main activity for each time period. We are not interested in activities which lasted only a minute or two. We also ask where you did each activity and if anyone was interacting with you during the activity.

Would you like an example?

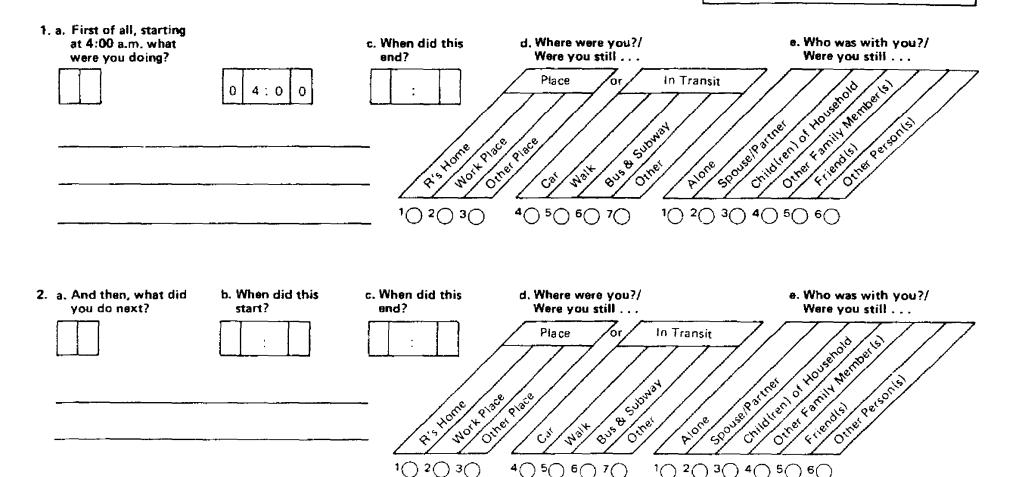
EXAMPLE: Yesterday morning I was asleep until 7:15. From 7:15 until 7:30 I got dressed. Then from 7:30 until 7:45 I made breakfast and from 7:45 to 7:55 I ate breakfast with my children. After we ate I cleaned up the dishes, which took 20 minutes.



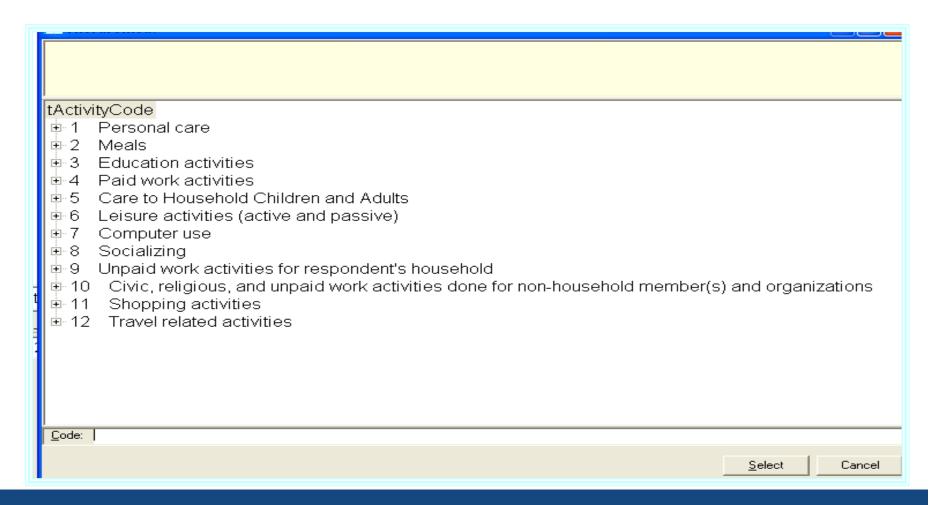


Pencil in information

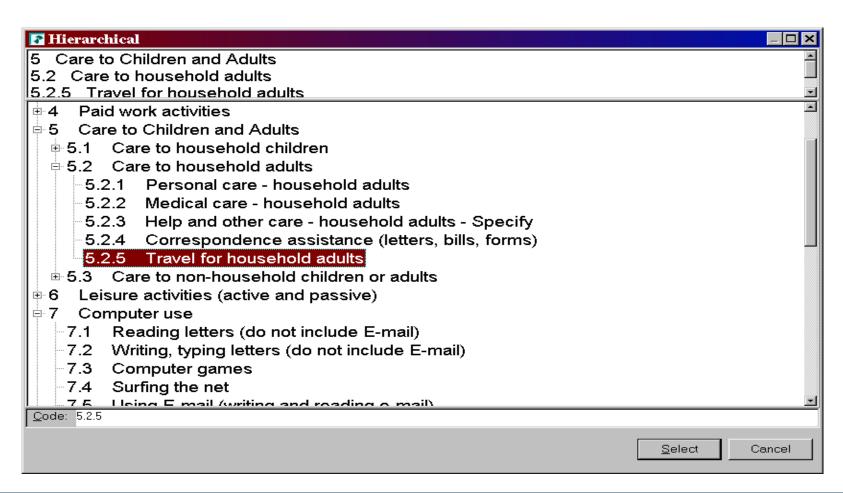
Do not ask question "e" about sleep, sex or other personal care activities.



Example of CATI three-tier hierarchy tree



Example of CATI three-tier hierarchy tree





Example of three-tier collection

6 - Active and passive leisure activities

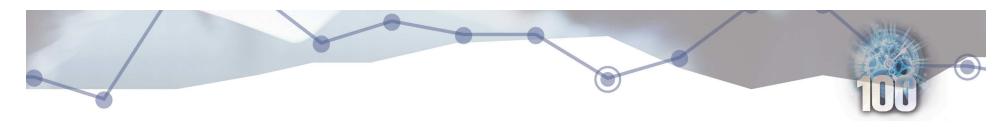
- 1. Passive leisure activities (reading, music, T.V., videos)
- 2. Walking, participating in sports, physical exercise or outdoor activity
- 3. Hobbies, crafts, games or other leisure activity
- 4. Attending events or visiting sites (sports, concerts, theatre, museums, etc.)

6.3 - Hobbies, crafts games and other leisure activities

- **6.3.1** Hobbies done mainly for pleasure (painting, sketching, photography).
- 6.3.2 Hobbies crafts done for sale or exchange,
- **6.3.3** Home crafts done mainly for pleasure (sewing and needlework)
- **6.3.4** Home crafts done for sale or exchange
- 6.3.5 Games, cards, puzzles,
- **6.3.6** Playing video games,
- **6.3.7** Singing or playing music, drama, dance,
- **6.3.8** Playing computer games,
- 6.3.9 Computer surfing the net (as a leisure activity),
- 6.3.10 Computer E-mail use,
- 6.3.11 Computer Chat groups,
- **6.3.12** Computer other internet communication,
- **6.3.13** Computer general use (as a leisure activity)
- 6.3.14 Pleasure drives (as a driver),
- 6.3.15 Pleasure drives (as a passenger),
- 6.3.16 Other pleasure drives (e.g. on a bus tour),
- 6.3.17 Other leisure activity Specify,
- 6.3.18 Travel to/from hobbies or for the sale of crafts
- **6.3.19** Travel to/from other leisure activities,







Results for 2010

	Po	Population		Participants			Participation rate			
Activity group	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	hours and minutes							percentage		
Active leisure	1:13	1:27	0:59	2:22	2:42	2:01	51	54	49	
Active sports	0:30	0:37	0:23	1:54	2:12	1:34	26	28	25	
Computer use	0:20	0:23	0:17	1:23	1:32	1:14	24	25	23	
Video games	0:09	0:14	0:04	2:20	2:40	1:38	6	9	4	
Other active leisure	0:14	0:13	0:15	2:05	2:06	2:04	11	10	12	



Light diary coding

- 1Sleeping, napping, resting, relaxing, sick in bed
- 2Personal care > Personal hygiene; praying, spiritual activities, meditating; sexual activities
- 3Health professional visit, consultation
- 4 Self-administered medical care > Taking blood pressure, sugar level, medication, treatment
- 5Meal, snack or drink preparation
- 6Eating or drinking > Meals, snacks, drinks
- 7 Transport to or from activity
- 8Paid work
- 9Looking for work
- 10Other income-generating activities
- 11 Paid training
- 12 Break or lunch
- 13Schooling full time/part time on site
- 14Schooling full time/part time online
- 15 Homework or studying
- 16 Self development or leisure and special interest classes
- 17Preserving foods > Baking, freezing, sealing, packing foods
- 18 Indoor house cleaning, dish washing, tidying
- 19Taking out garbage, recycling, compost, unpacking goods
- 20Laundry, ironing, folding, sewing, shoe care
- 21 Repair, painting or renovation
- 22Organizing, planning, paying bills
- 23Unpacking groceries, packing and unpacking luggage for travel and/or boxes for a move
- 24 Outdoor maintenance > Car repair, ground maintenance, snow removal, cutting grass
- 25 Planting (picking), maintaining, cleaning garden, caring for house plants
- 26Pet care > Feeding, walking, grooming, playing
- 27(Caring for a child from your household less than 15)) Personal care, getting ready for school, supervising homework, reading, playing, reprimanding, educational, emotional help
- 28(Caring for a child from your household less than 15))
 Accompanying to or from school, bus stop, sports, activities, parent school meetings or appointments
- 20/Caring for a teenager from your household 15 to 17\) Helping with

- 35(Caring for an adult from another household) Accompanying to or from appointments, shopping
- 36Helping relatives, friends, neighbours, acquaintances > Exclude: caregiving
- 37Shopping for or buying goods > Gasoline, groceries, clothing, car
- 38Shopping for services > Legal services, financial services, vehicle maintenance
- 39Researching goods or services
- 40 Selling of goods or services
- 41 Socializing or communicating in person
- 42 Socializing or communicating using any type of technology > Phone email, social media, Skype
- 43 Organizational activities
- 44 Voluntary work
- 45Religious activities
- 46Civic participation > Voting, jury duty
- 47 Exercising
- 48 Organized recreational sports
- 49 Competitive sports (indoor or outdoor)
- 50 Outdoor sports (non-competitive) > Skiing, skating, swimming, tennis football, baseball
- 51 Outdoor activities > Fishing, hunting
- 52 Coaching or administering sports
- 53Attending cinema, exhibitions, library, concerts, theatre, entertainmer events
- 54 Attending sporting events
- 55 Visiting museums, art galleries, heritage sites, zoos, observatories
- 56Arts and hobbies > Drawing, painting, crafting, playing an instrument, dancing, collecting, knitting, photography, board and card games, gambling
- 57Leisure Activity > Walking, pleasure driving, birdwatching
- 58Reading > Online or paper version books, periodicals, newspaper, letters
- 59Writing > Letters, cards, books, poems
- 60 Watching television or videos
- 61Listening to music or radio
- 62Use of technology > General computer use, video games, Internet, a music production

CATI collection

Yesterday at 4:00 AM, what were you doing?	Code: ▼	Main Activity: ▼
How long did you spend on this activity?	Start : 04:00	End: Hours: Minutes: 04:10 0 0
Were you doing anything else at the same time?	Code: ▼	Simultaneous Activity:
Who was with you?	On my own	Or Spouse, partner Household child(ren) - less than 15 years old Household child(ren) - 15 years or older Parents or parents-in-law Other household adult(s) Other family member(s) from other households Friend(s) Colleague(s) / classmate(s) Other people
Where were you?		▼]€
During this time period, did you use any information technology device such as a tablet, smartphone, computer or laptop?		▼

EQ Diary instrument



What were you doing at 4:00 a.m.?

<< Select >>>

Sleeping

Sleeping, napping, resting, relaxing, sick in bed

Own personal care

Personal - hygiene, washing, dressing, hair care, brushing teeth

Praying, spiritual activities, meditating

Sexual activities

Health professional visit, consultation

Taking blood pressure, sugar level, medication, treatment

Eating or drinking

Preparation - meals, snacks, lunches

Eating or drinking - meals, snacks, drinks

Paid work activities

Working at main job or other jobs

Business travel

Looking for work

Other income-generating activities

Paid training

Personal appointment

Break or lunch

Studying or learning

Main schooling full time/part time - on site

Main schooling full time/part time - online

Homework

Self development

Break or lunch

Leisure and special interest classes

Travel and going from place to place

Transport to or from activity

Household chores or maintenance

Helpful resources Contact us Account settings		
Start of questionnaire ≯ Time use diary		Logout
Time use and its challenges	57%	
Time use diary	57.70	
Starting at 4:00 AM, how long did this activity last?		
Please indicate if you were doing any of these activities at the same time.		
4:00 AM;		
Simultaneous Activity 1		
≪ Select >>> ▼		
Simultaneous Activity 2		
≪ Select >>> ▼		
Where were you?		
4:00 AM;		
Select >>>		
Who was with you?		
4:00 AM;		
Select all that apply		
On my own		
OR		
Spouse, partner		
Household child, children (less than 15 years old)		
Household child, children (15 years or older)		
Parents or parents-in-law		
Other household adult(s)		
Other family member(s) from other households		
Friend(s)		
Colleague(s), classmate(s)		
Other people		
During this time period, did you use any information technology device such as a tablet, smartphone, computer or laptop?		
4:00 AM;		
C Yes		
□ No		

2015 results with light diary



	Canada (map)										
	Total, 15 years and over ²										
		Both sexes			Male						
		Daily average time, participants $\frac{3}{10}$	Participation rate ³ ¹¹		Daily average time, participants $\frac{3}{10}$	Participation rate ³ ¹¹		Daily average time, participants $\frac{3}{10}$	Participation rate ³ ¹¹		
Activity group ⁴	2015	2015	2015	2015	2015	2015	2015	2015	2015		
Active leisure	1.0	2.5	41.5	1.2	2.8	42.1	0.9	2.2	40.9		
Use of technology 13	0.7	2.2	30.4	0.8	2.5	32.2	0.5	1.8	28.6		
Arts and hobbies, leisure activities or writing 14	0.4	2.2	16.8	0.4	2.3	15.6	0.4	2.2	18.0		

Feasibility of having three-tier coding in EQ



By mail	Start	
By telephone	▶ Press Start to begin	Start
By television, radio or telethon	▶ Press Start to begin	Start
Online	▶ Press Start to begin	Start
On your own	▶ Press Start to begin	Start
Charity event	▶ Press Start to begin	Start
In memory of someone	▶ Press Start to begin	Start
Someone at work	▶ Press Start to begin	Start
Door-to-door cavassing	▶ Press Start to begin	Start
Shopping centre or on the street	▶ Press Start to begin	Start
Place of worship	▶ In progress	Continue
Sponsoring someone	▶ Complete	Review
Other method	Press Start to begin	

Feasibility of having three-tier coding in EQ



Name of organization

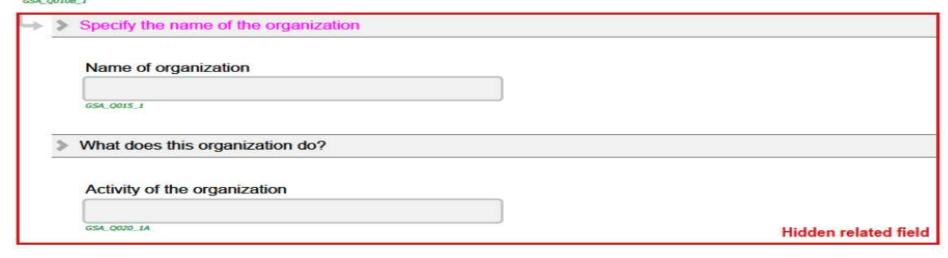
To search for your organization, type the first few letters or keyword to narrow down the choices.

If you cannot find or cannot remember the name of the organization, select the appropriate option below.

<<< Select >>>	~
GSA_Q010A_1	

OR

You cannot find the name of the organization GSA_00108_1



You cannot remember the name of the organization





Harder to code activities

- Bring flower to the cemetery usually coded as religious activity
- Walking (leisure, transportation, exercising)
 especially difficult when it is a mix of reasons if
 going somewhere we will code as transportation
- Sport activities require a lot of prompting to code it to the proper one for example swimming



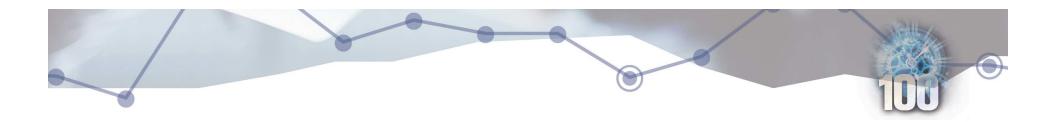
Contextual questions

- Increase respondent burden
- Select activities that would benefit from knowing "for whom the activity was done"
 - (sleep, personal care, work and study, eat ... should be excluded)
 - Adds complexity to the application flow
 - Telephone mode VS self completed



Labour force questions

- The Time Use diary only collects general work information done during the 24 hour recall for those who worked
- Stylized portion of the questionnaire contains a whole set of labour force questions which provide the type of work, the usual work hours, the employer, the duties, etc.
- Could link NAICS and NOCS codes back to Time Use



Questions?

Patricia Houle
Time Use Survey Manager
General Social Survey Program
Social and Aboriginal Statistics Division
Statistics Canada
patricia.houle@canada.ca



