Time use surveys

Modernizing Time use surveys, in line with ICATUS2016

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Introduction

- We use time-use data

- Costly
- High respondents’ burden
- Low response rates
- Not fully utilized

How can we produce time-use data more efficiently?
INSTRUMENTS
Since 2000, out of around 100 countries, 88 countries collected data as follows:

**Full time diary:** 57

**Light time diary:** 9

**Questions:** 22
# Time use instruments requirements

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<thead>
<tr>
<th></th>
<th>Full diary</th>
<th>Light diary</th>
<th>Questions</th>
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<tr>
<td><strong>Inputs</strong></td>
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<tr>
<td>Cost</td>
<td>+</td>
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<tr>
<td>Processing data</td>
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<tr>
<td>Respondents’ requirements</td>
<td>+</td>
<td>+/-</td>
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<tr>
<td><strong>Outputs</strong></td>
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<tr>
<td>Data quality</td>
<td>+</td>
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<tr>
<td>Data granularity</td>
<td>+</td>
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<tr>
<td>Data usability</td>
<td>+</td>
<td>-</td>
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Time use instruments

How can we optimize:
- Reduce inputs
- Keep high outputs
Data collection MODES
Classifying TUS data collection modes

Recall interview by interviewer
- Face to Face
- Over the network
- Leave behind diary
- Technology assisted self interview
- Experience sampling method (ESM)

Self-completed by respondent
- Technology assisted self interview
- Observation
- In person observation
- Technology assisted (like wearable camera) observation
- Leave behind diary
- Experience sampling method (ESM)

Observation
- Face to Face
- Over the network
- Leave behind diary
- Technology assisted self interview
- Experience sampling method (ESM)

PAPI
- CAPI
- CATI
- Paper diary
- CAWI (Web form)
- Mobile application
- Wearable devices (beeper method)
- Mobile application
- SMS / Outbound IVR
Mixed mode – It’s a strategy

• Mixed-mode in data collection try to combine the best of all possible worlds by exploiting the advantages of different modes and compensate for their weaknesses at an affordable cost (De Leeuw 2005).

Advantages
– Improve response rate, overall coverage, data quality
– Reduce cost, time

Limitations
– Mode effect? (different way respondents may answer same question across mode)
– Need to test data integration from multiple modes
Snapshot of modes used by countries

- Self-administered Paper diary: 31
- Face to face Interview: 15
- Mixed: 10
- CATI: 2
- Not identified yet: 47

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Innovative and Effective ways to collect TUS

New York, USA, September 2018
## Conclusions

<table>
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<tr>
<th>Modes</th>
<th>Instruments</th>
<th>Full diary</th>
<th>Light diary</th>
<th>Questions</th>
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<td>Recall Interview</td>
<td>Face to face</td>
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<td>Leave behind</td>
<td>Paper</td>
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<tr>
<td>Self completed</td>
<td>Technology assisted self interview</td>
<td>CAWI (Web form)</td>
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<td>Experience sampling method</td>
<td>Mobile app</td>
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<td>Wearable devices</td>
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<td>SMS / IVR</td>
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- **Profile 1**: High literate urban high-tech working age (concurrent)
- **Profile 2**: High literate urban high-tech working age (Lost trust in tech)
- **Profile 3**: Low literate Rural

⇒ Update UN guidelines to collect time-use data + provide assistance to countries
Thank you!