Mobile data collection application for Time use survey 2019 of Mongolia

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Time use survey:

• Determine time spent in unpaid and paid work of women and men.
Survey methodology of TUS 2019:

Sampling design and size
• Representative national and regional level
• Multi-stages sample method
• Total sample is 4,000 households
• Data collected by quarterly

Classification
• International classification of activities for time use statistics (ICATUS 2016)
• International standard industrial classification (ISIC 4.0)
• International standard classification of occupation (ISCO 08)

Questionnaires
• Household questionnaire
• Children under 5 questionnaire
• Diary
  Main and parallel activities, and contextual information (location, with whom)

Data collection mode
• Household questionnaire - CAPI-CSPro
• Children under 5 questionnaire - CAPI-CSPro
• Diary: smart phone application (Q3, Q4)
  • A week: 2-3 days
    SUN-MON-TUE
    WED-THU
    FRI-SAT
Smart phone application - Survey 1212

Develop apps for android, iOS, and web based platform.

User interface for:
- Admin
- Interviewer
- Respondent

App features:
- Login
- Create Respondents account
- Enter daily activities by time
- Receive comments from Interviewer

Web features for Interviewer:
- Check respondents diary
- Send comments to respondent
- Close diary
- Coding activities
How it works:

1. Visit household take Household data by CAPI-CSPro

2. Diary method select by respondent, Paper or Mobile app

3. Create Mobile app account for Respondent by Interviewer

4. Install app to Respondent mobile and login using by Respondent account

5. Entering daily activity by Respondent/main and parallel/

6. Online monitoring by web platform

7. Send notification and advise to respondent

8. Close completed respondent diary. Move to coding
Respondent’s access:

Entering main activities

10:57

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Та юу кийсэн бэ?
Sleeping

Та хаана байсан бэ?
Гэртээ

Душсан шигжээ сонгоно уу
04:00
Душсан шигжээ 06:30

Хантай хамт байсан бэ?
Эхнэр/нехер

Edit and delete

Entering parallel activity

07:10
07:30

Цаг ашиглалтын судалгаа

ЛХАГВА | ПУРГА | БАЯСАН

Үйл ашиглалгаа өмчөх

06:00—06:10
06:10—07:10
07:10—07:30
07:30—08:00
08:00—08:30

Эхнэр/нехер

07:10
07:20

Та дахах куу кийсэн бэ?
Хуучнудагаа сэрээж
Monitoring and send comments to respondent:

Interviewer real time check respondent data

Receive comments from Interviewer

Сайаай байна уг, угл ажиллагаа тодорхой бичнэ уг. Онгоо: 6/18/2019 3:43:40 PM
Challenges:

- New method always fighting against traditional method
- Respondent trust
- Interviewer skill
- Mobilization usage
- Mobile internet accessibility/3G/
<table>
<thead>
<tr>
<th>Advantage</th>
<th>Disadvantage</th>
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<tr>
<td><strong>Respondent burden</strong></td>
<td>More option/choice to respondent: some people prefer to using application instead of write down on the paper</td>
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| **Time** | Save time  
• no need to data entry, just coding on web based platform  
• no need to visit every day to check diary filling, remote check  
• Respondents, they more busy now |
| **Budget** |  
• Save world – No paper  
• Save travelling - No need to visit every day to Household  
• No need data entry process  
Additional budget – given phone data to respondent |
| Coding activities | Integrated coding |
| Monitoring | Real time monitor during data collection |
| Data quality | Validation |
THANK YOU FOR YOUR ATTENTION