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BACKGROUND OF MONGOLIAN TUS

- **2000**: Pilot TUS
  - 1,086 HHs, April
  - (just one month)

- **2004**: Amendment
  - to Law on Statistics

- **2007**: 1st TUS
  - 3,200 HHs, quarterly collect data

- **2011, 2015, 2019**: 4,000 HHs, quarterly collect data

- **2023**: 23,394 HHs, monthly collect data
JUSTIFICATION AND RATIONALE FOR THE SURVEY IMPLEMENTATION

• Implementation of the Law on Statistics;

• Monitor the progress towards achievement of the SDGs indicator 5.4.1;

• Identify the lifestyle of the population and study its changes;

• Monitor the implementation of the Action Plan of the Government of Mongolia for 2020-2024
# SURVEY METHODOLOGY

## SAMPLING DESIGN AND SIZE
- Representative national and regional level
- Multi-stages sample method
- Total sample is 4000 households
- Data collected quarterly
- 12 and older in selected households for diary

## 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)

## DATA COLLECTION
- Household questionnaire (face-to-face interview using tablet - CAPI)
- Children under 5 questionnaire (face-to-face interview using tablet - CAPI)
- Diary
  - Mixed mode of data collection was used (from Q3)
  - **PAPER**: interviewer collected completed diaries from households then coded and did data entry
  - **SMARTPHONE APP**: respondent completed diary on their own smartphone

## QUESTIONNAIRES
- Household questionnaire
- Children under five questionnaire
  - Refers to child illness related to air pollution and parents how many hours and money spend for caring their children (additional-new module)
- Diary (12 years, older)
  - Main and parallel activities in 10 minutes interval
  - Contextual information (location, with whom)
SMARTPHONE APPLICATION

Create Mobile app account for Respondent by Interviewer:

1. Select household
2. Create account for respondent and select dates

First mobile application for Time Use Survey

Monitoring and send comments to respondent:
# SMARTPHONE APPLICATION

<table>
<thead>
<tr>
<th></th>
<th>ADVANTAGE</th>
<th>DISADVANTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respondent burden</td>
<td>More option/choice to respondent – some people prefer to using application instead of write down on the paper</td>
<td></td>
</tr>
<tr>
<td>Processing time</td>
<td><strong>Save time</strong>&lt;br&gt;• no need to data entry, just coding on web-based platform&lt;br&gt;• No need to visit everyday to check diary filling, remote check&lt;br&gt;• Respondents, getting busier</td>
<td></td>
</tr>
<tr>
<td>Budget</td>
<td><strong>Save world</strong> – no paper&lt;br&gt;Save money – on travel</td>
<td><strong>Additional cost</strong> – given phone data to respondent</td>
</tr>
<tr>
<td>Coding activities</td>
<td><strong>Integrated coding</strong> (it will reduce non sampling error on activities coding)</td>
<td></td>
</tr>
<tr>
<td>Monitoring</td>
<td><strong>Real-time monitor during data collection</strong></td>
<td></td>
</tr>
<tr>
<td>Data quality</td>
<td><strong>Validation</strong></td>
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LESSONS LEARNED FROM APPLYING A MIX MODE SURVEY ON TIME-USE IN MONGOLIA

Considerations for the upcoming mobile application surveys:

• gained experience and improved knowledge;
• only applicable for respondents who have smartphones;
• did not have access to internet connection:
  - by providing free internet data
  - motivated the respondents, increased the response rate in the end.
• confidentiality of uploading the application into their smartphones;
• prefer to use the traditional method.

NSO of Mongolia faces several challenges:

• long distances;
• nomadic lifestyle;
• Mobile internet accessibility;
• an address system that has not been standardized and;
• low-trust level of the respondents that data will not be used for nonstatistical purposes.

Conducting the survey:

• using one method was not convenient;
• to use mix mode survey methods to collect the data efficiently and produce accurate and timely data.
# MAIN FINDINGS OF TUS, IN LINE WITH SDGS MONITORING

<table>
<thead>
<tr>
<th>Respondent</th>
<th>50.8%</th>
<th>49.2%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diary</td>
<td>58.9%</td>
<td>41.1%</td>
</tr>
</tbody>
</table>

**Nationwide 4,000 HHs selected:**
- 3,972 HHs surveyed
- response rate - 99.3%

**6,312 members of households aged 12 years and older were answered:**
- 6,110 – paper diary
- 202 – smart phone application, response rate - 64.3%

**SDGs 5.4.1**
- 3.4 hours

**4.6 hours**

**1.8 hours**
THANK YOU FOR YOUR ATTENTION!