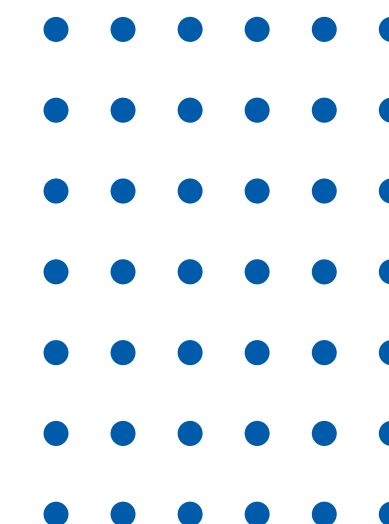




**NATIONAL  
STATISTICS OFFICE  
OF MONGOLIA**

**9<sup>TH</sup> United Nations Global Forum on  
Gender Statistics**

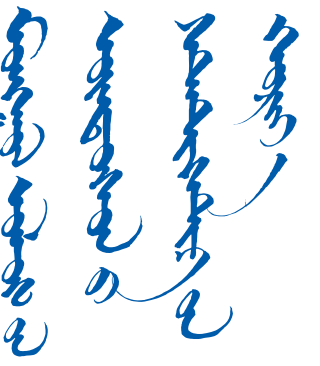
# **TIME USE SURVEY OF MONGOLIA**



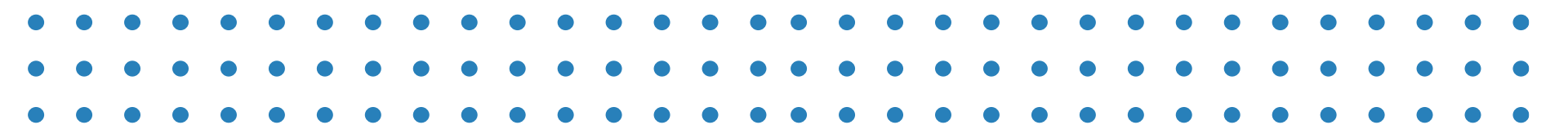
**Dulamjav Altangerel  
National Statistics Office of Mongolia**



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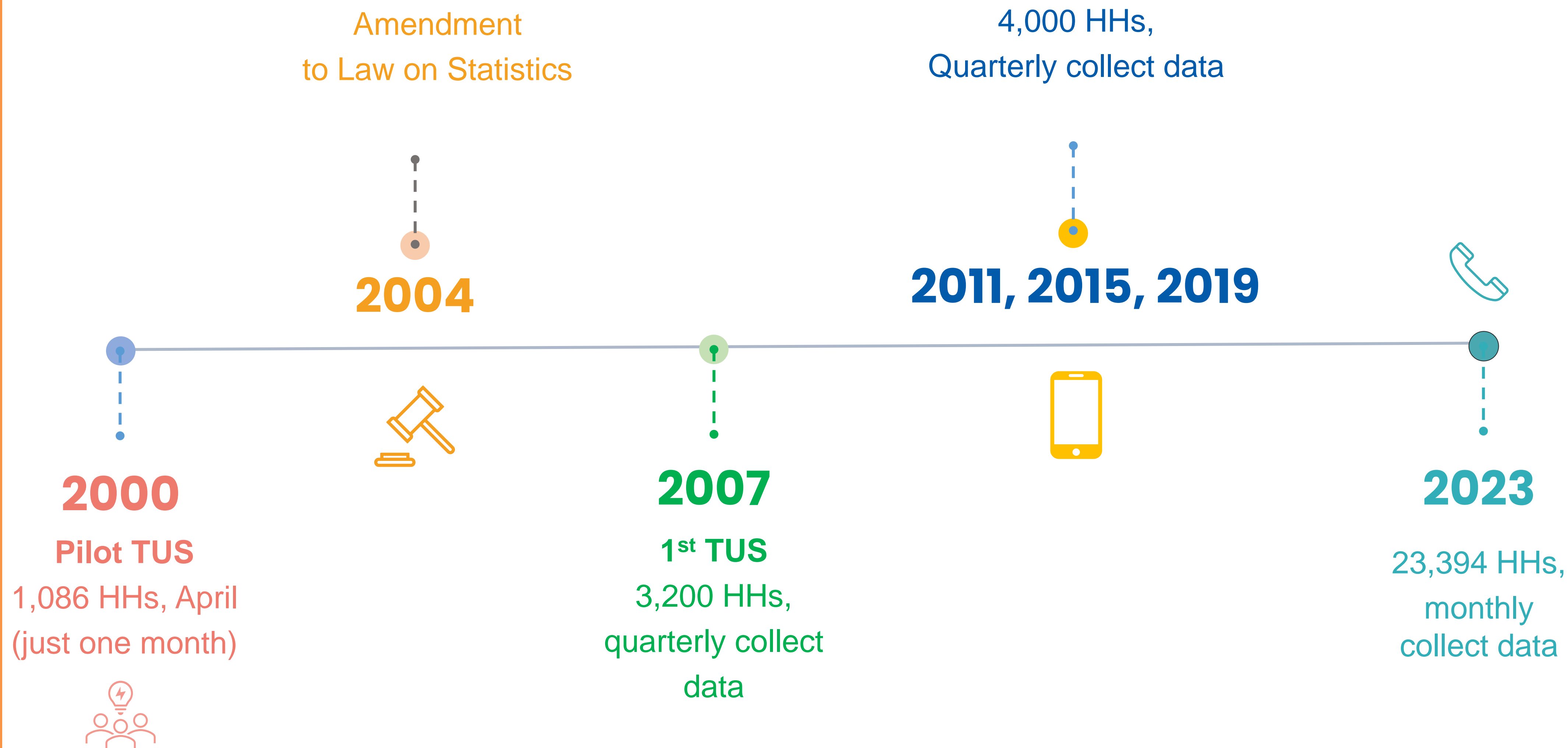


- BACKGROUND OF MONGOLIAN TUS
- JUSTIFICATION AND RATIONALE FOR THE SURVEY
- IMPLEMENTATION
- SURVEY METHODOLOGY
- SMARTPHONE APPLICATION
- LESSONS LEARNED FROM APPLYING A MIX MODE SURVEY ON TIME-USE IN MONGOLIA
- MAIN FINDINGS OF TIME USE SURVEY





# BACKGROUND OF MONGOLIAN TUS

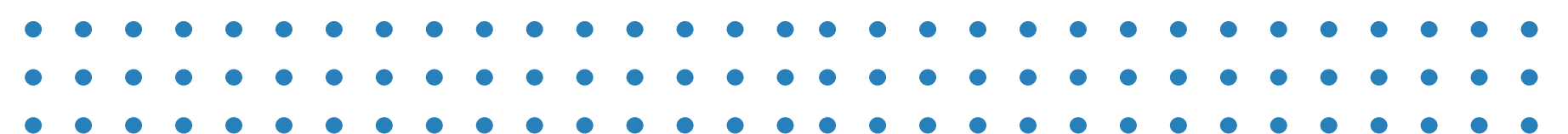




# JUSTIFICATION AND RATIONALE FOR THE SURVEY IMPLEMENTATION

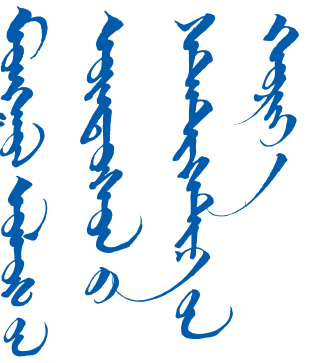


- Implementation of the Law on Statistics;
- Monitor the progress towards achievement of the SDGs indicator 5.4.1;
- Identify the lifestyle of the population and study its changes;
- Monitor the implementation of the Action Plan of the Government of Mongolia for 2020-2024





# 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

МОНГОЛ  
УЛСЫН  
СТАТИСТИК  
ТӨВ

TIME USE SURVEY 2019

Create Mobile app account for Respondent by Interviewer:

## 1. Select household

Тохиргоо

ӨРХИЙН ЖАГСААЛТ

Түүврийн нэгжийн дугаар:

Сонгоно уу

№	Овог	Нэр
1	ЧУЛУУНБАТ	ИШДОРЖ
2	ЭРДЭНЭЧУЛУУН	МИШИГДОРЖ
3	ДОРЖДАВАА	ДАМЧААСҮРЭН
4	ЭНХБААТАР	ДАГВАДЭМБЭРЭЛ
5	ЯДАМ	ХҮРЭЛСҮХ
6	ӨВГӨН	ҮРЖИН
7	НУУРБАТ	УЛААНХҮҮ
8	ГОНГОРЖАВ	ЭНХТАЙВАН
9	БАТБОЛД	БАНЗАРРАГЧАА

## 2. Create account for respondent and select dates

Хэрэглэгчийн овог:

Болд

Хэрэглэгчийн нэр:

Цэцэгээ

Судалгаа эхлэх огноо:

2019-09-25

Гариг:

Лхагва X Пүрэв X

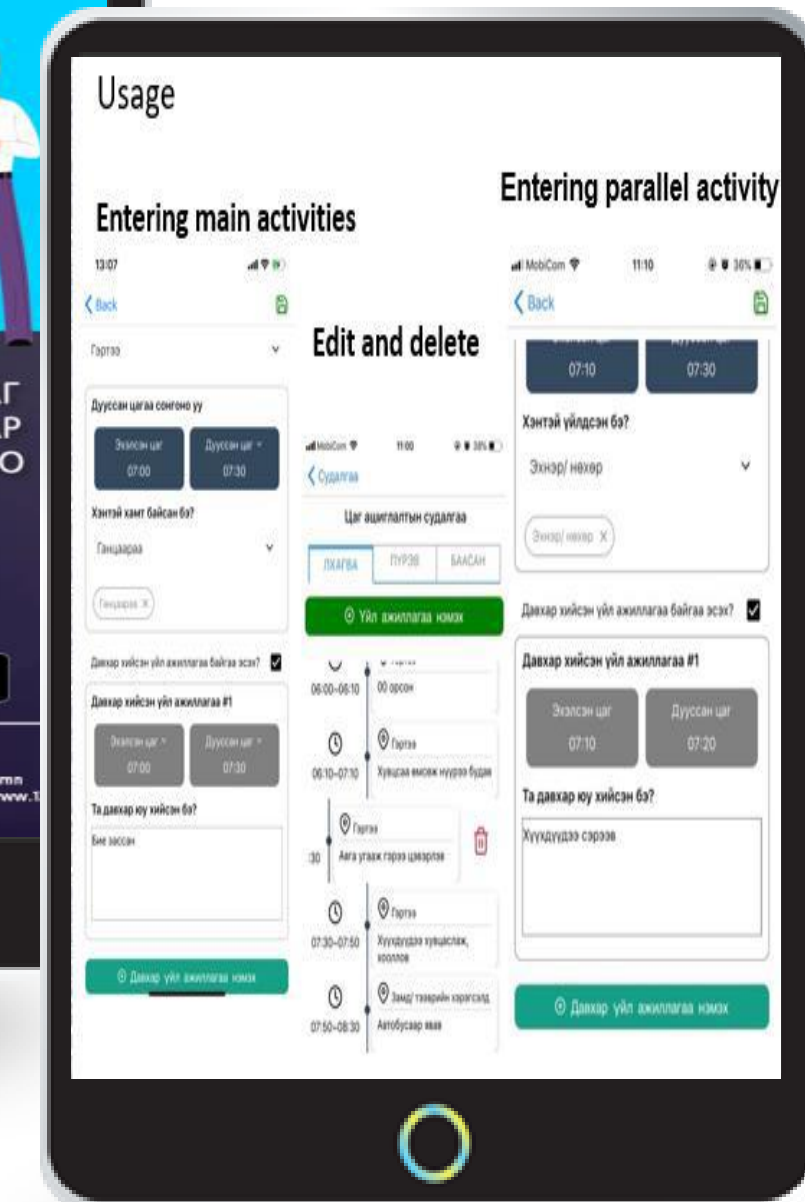
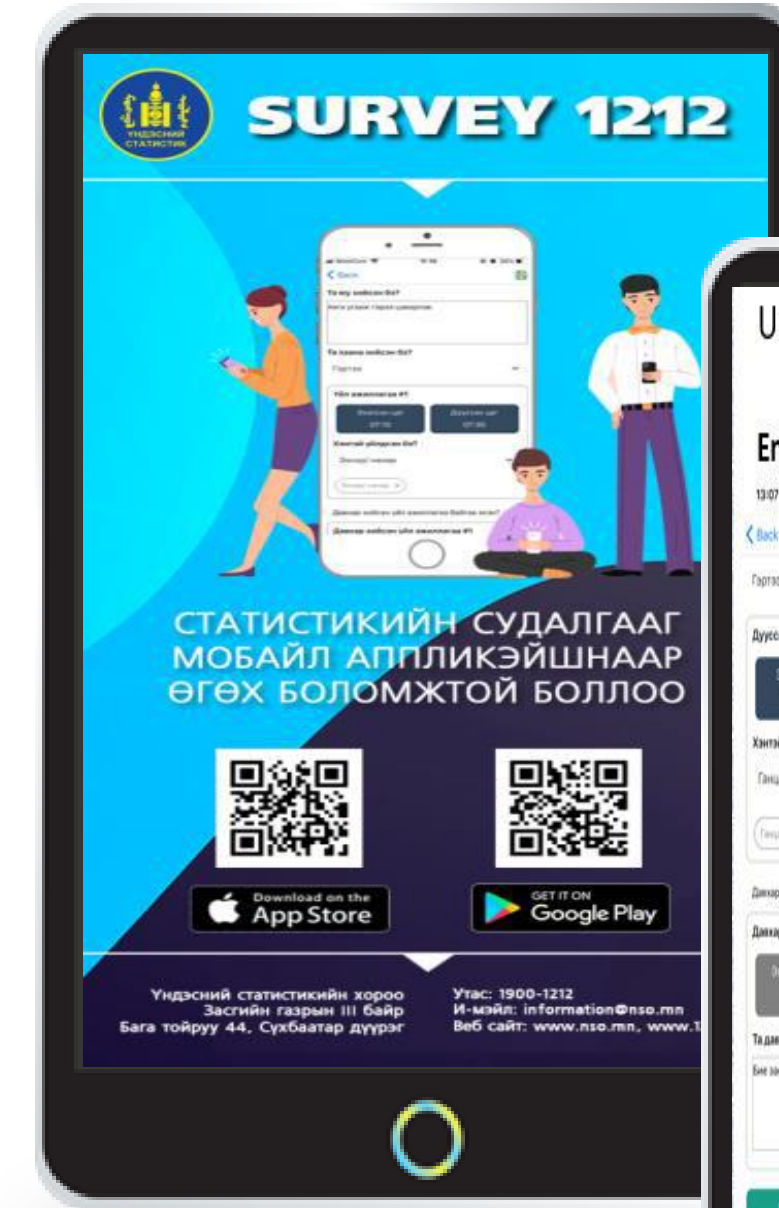
Хадгалах

Хэрэглэгч нэмэх

Овог: TEST Нэр: TEST

Нэвтрэх нэр: U00014

Нэвтрэх нууц үг: 1977



First mobile application for Time Use Survey

Monitoring and send comments to respondent:

## Interviewer real time check respondent data

Сурвалж ажлаар / Орхын өмнөд / Хэрэглэгч / Хэрэглэгч

Хайх

О ажлын цаг	О дууссан цаг	Ханна	Хантай	Ос ну хийсэн	Тодорхой дэлгэрүүлж бичих үү
04:00	07:00	Гэрээ	Эцэгт ан	Өмнө босох	МЭДЭГДЭЛ

МЭДЭГДЭЛ

## Receive comment

МЭДЭЭ, МЭДЭЭЛЭЛ

СУДАЛГАА

ХОЛБОО БАРИХ

ЗААВАР

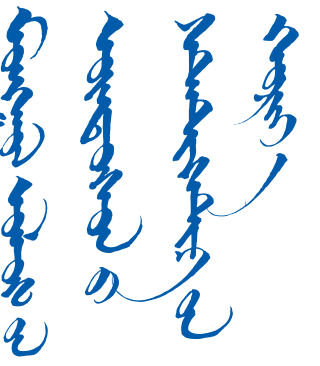
МЭДЭГДЭЛ

Судлаачаас ирсэн мэдэгдлүүд

Сайн байна уу, үйл ажиллагаа тодорхой бичнэ үү. Огноо: 6/18/2019 3:43:40 PM



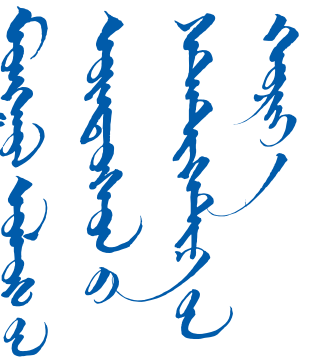
# SMARTPHONE APPLICATION



	ADVANTAGE	DISADVANTAGE
<b>Respondent burden</b>	More option/choice to respondent – some people prefer to using application instead of write down on the paper	
<b>Processing time</b>	Save time <ul style="list-style-type: none"><li>• no need to data entry, just coding on web-based platform</li><li>• No need to visit everyday to check diary filling, remote check</li><li>• Respondents, getting busier</li></ul>	
<b>Budget</b>	Save world – no paper Save money – on travel	Additional cost – given phone data to respondent
<b>Coding activities</b>	Integrated coding (it will reduce non sampling error on activities coding)	
<b>Monitoring</b>	Real-time monitor during data collection	
<b>Data quality</b>	Validation	

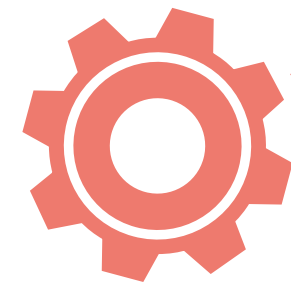


# LESSONS LEARNED FROM APPLYING A MIX MODE SURVEY ON TIME-USE IN MONGOLIA



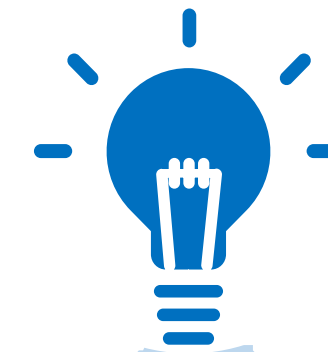
## Considerations for the upcoming mobile application surveys:

- 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**.

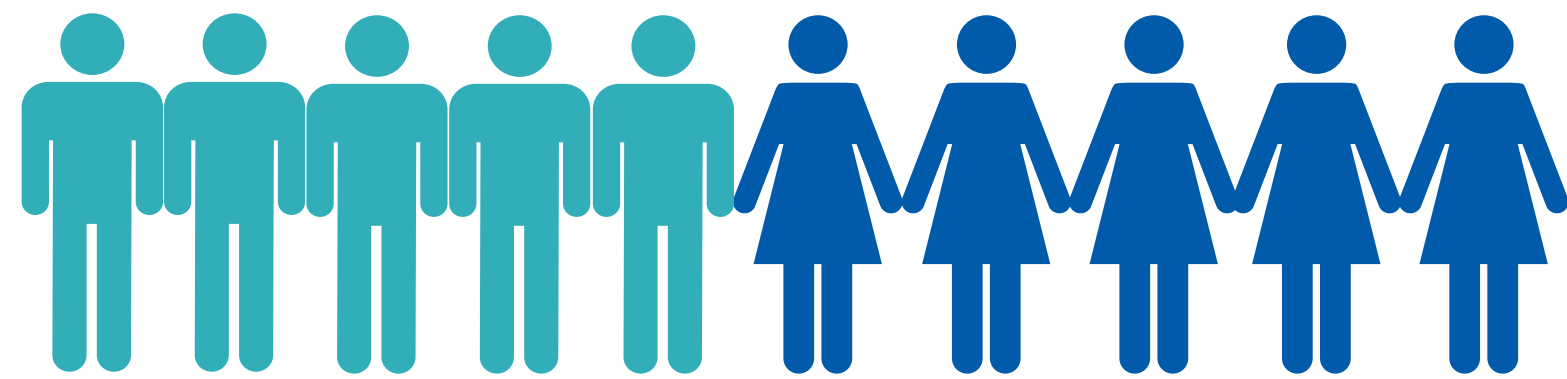




# MAIN FINDINGS OF TUS, IN LINE WITH SDGS MONITORING



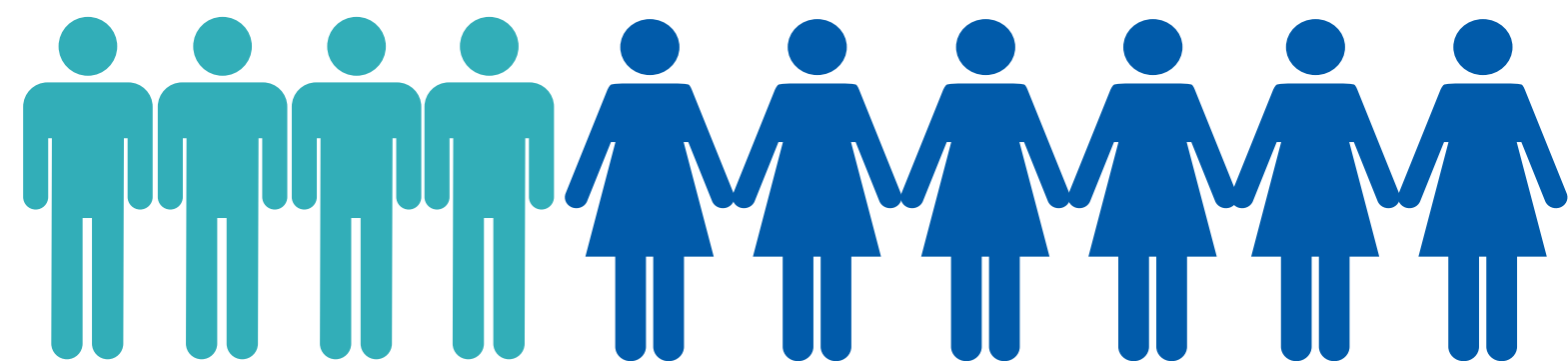
## Respondent



Nationwide 4,000 HHs selected:

- 3,972 HHs surveyed
- response rate - 99.3%

## Diary



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** **1.8**  
hours hours



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STATISTICS OFFICE  
OF MONGOLIA**



**THANK YOU FOR YOUR ATTENTION !**