Training Workshop on Transition to Register-based Approaches for Population and Housing Censuses
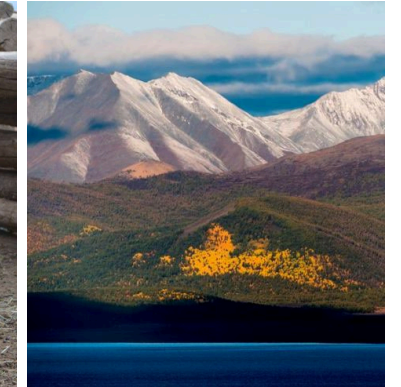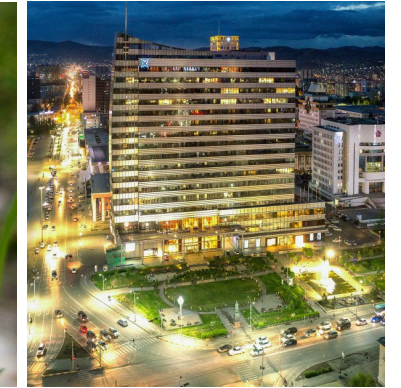
Ankara, Türkiye
12-15 June 2023

Mongolia

Brief introduction of Mongolia

➢ 3.5 million (2022)

➢ Locations: between China and Russia;

➢ Territory: 1.564 thous sq. km

➢ Mongolia is the seventeenth largest country in the world.

➢ Average altitude: 1,580 m above sea-level

➢ Temperatures: in the winter -15C and -40C,
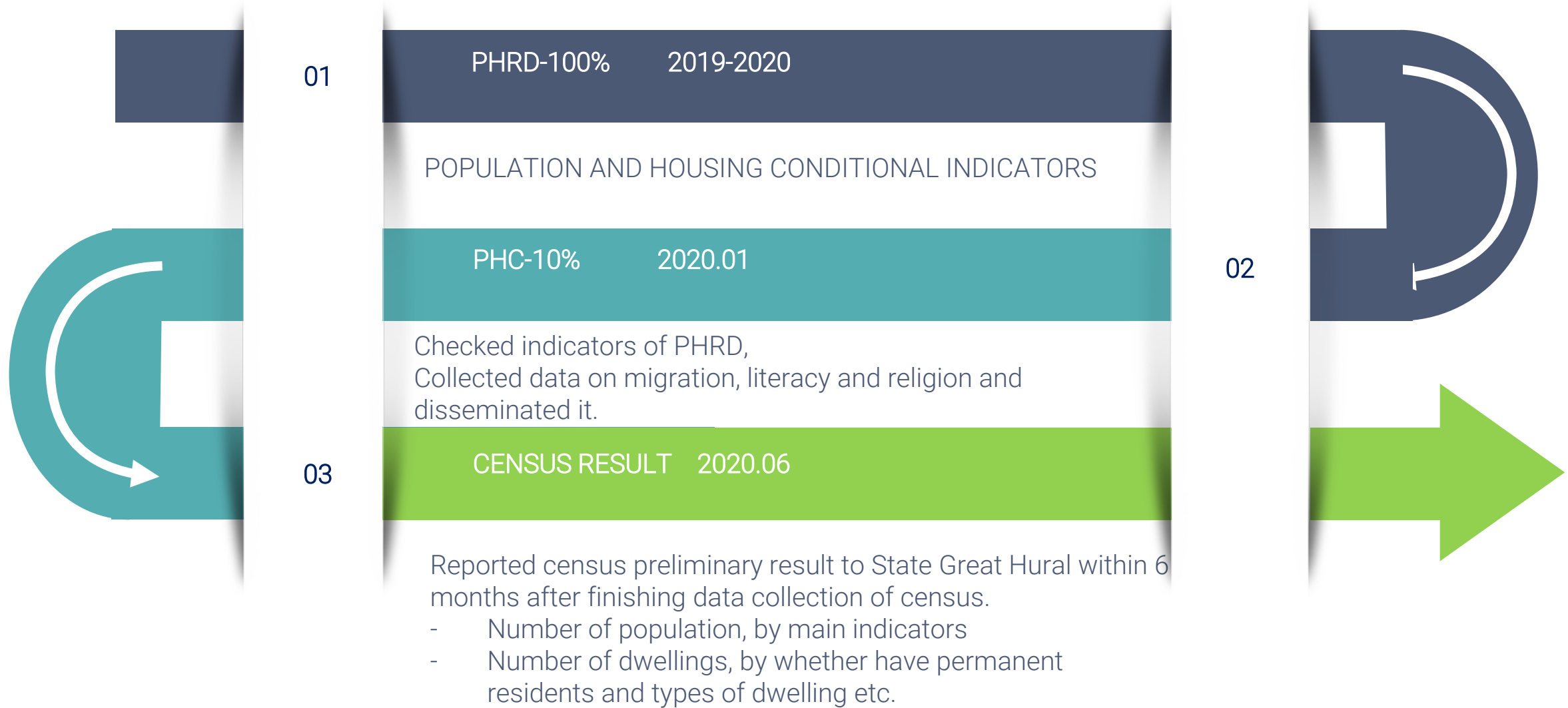
in the summer +10C and +35C.

Census history

- In 1918, first census was conducted.

- In 2008, approved Law on Population and Housing Census;

YEAR	METHOD	QUESTIONNAIRE	DATE	PES
1989	Traditional	Individual	1989.01.07-08 /Sunday/ 00:00 hour	
2000	Traditional	Household/6 person/	2000.01.08-09 /Sunday/ 00:00 hour	1%
2010	Traditional	Household/6 person/	2010.11.10-11 /Thursday/ 00:00 hour	1%
2015	Register based	PHD, civil registration, social insurance, social welfare, border …	2015.12.31-2016.01.01 /Friday/ 00:00 hour	
2020	Combined	Long, short form	2020.01.08-09 /Thursday/ 00:00 hour	1%

Short form /Register/: Deriving indicators from linking with Population and Household Registration Database and databases of other state organizations.
Long form /Traditional/: Ask every members of households.

Census - 2020: Data collection

01

PHRD-100%   2019-2020

POPULATION AND HOUSING CONDITIONAL INDICATORS

PHC-10%   2020.01

02

Checked indicators of PHRD,
Collected data on migration, literacy and religion and
disseminated it.

CENSUS RESULT   2020.06

03

Reported census preliminary result to State Great Hural within 6
months after finishing data collection of census.
-       Number of population, by main indicators
-       Number of dwellings, by whether have permanent
        residents and types of dwelling etc.

Census - 2020: Data collection

COMMANDBINED

COMBINED

TRADITIONAL METHOD

Person who enumerate

Census questionnaire
- Person indicators– 38
- Housing indicators-33
- Person who live in abroad– 7

Sample survey questionnaire:
- 10% of total HH in every administrative units
- NSO prepared the sample and submitted to the Aimag and the Capital city Census commissions.

Sample size
- Household– 93.9 thousand
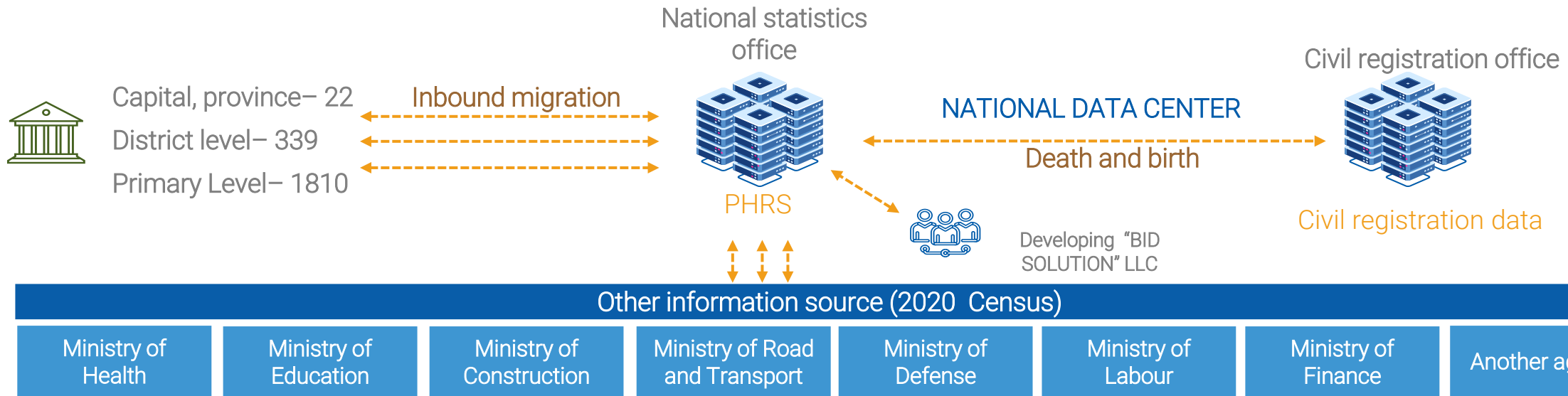- Persons-350.9 thousand

REGISTER BASED METHOD

Linking databases by key variables

Census questionnaire
- Population and Household registration system
- Abroad registration online system
- Linked database
- Person self-confirmation online system

Population and Household registration system -PHRS
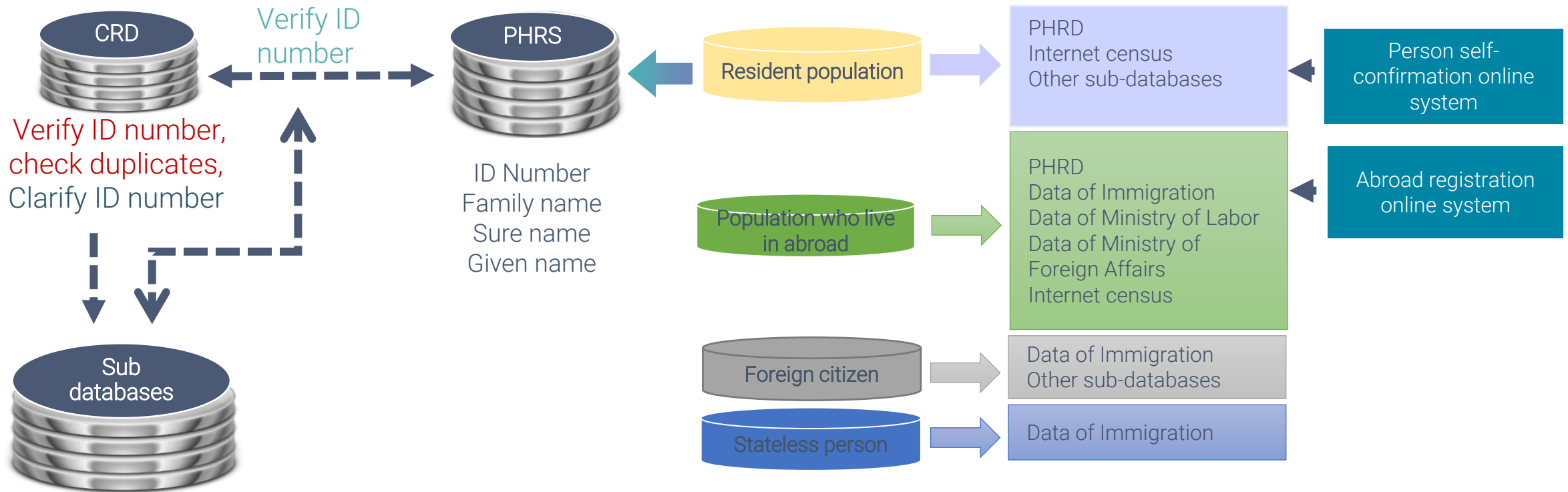
Linked with Civil registration system

National statistics office

Capital, province– 22

District level– 339

Primary Level– 1810

Inbound migration

PHRS

NATIONAL DATA CENTER

Death and birth

Civil registration office

Civil registration data

Developing "BID SOLUTION" LLC

Other information source (2020 Census)

Ministry of Health	Ministry of Education	Ministry of Construction	Ministry of Road and Transport	Ministry of Defense	Ministry of Labour	Ministry of Finance	Another agency

- Population and HH registration application (XAOMC) started in 2014.

- Register 19 indicators for HH, 19 indicators person.

- No duplicates, all HH and person has single registration ID.

- All administrative unit has real time access.

- Linked with civil registration database of civil registration offices.

- Possible to control migration.

The main database of the census.

Census - 2020: Data collection – register based method

Linking databases by key variables

CRD

Verify ID number

Verify ID number, check duplicates, Clarify ID number

PHRS

ID Number
Family name
Sure name
Given name

Sub databases

Resident population

Population who live in abroad

Foreign citizen

Stateless person

PHRD
Internet census
Other sub-databases

PHRD
Data of Immigration
Data of Ministry of Labor
Data of Ministry of Foreign Affairs
Internet census

Data of Immigration
Other sub-databases

Data of Immigration

Person self-confirmation online system

Abroad registration online system

- Vehicle database
- Early childhood education and higher education databases
- Disabled person from Health and Social Insurance Databases

Linked database

- Administrative data from state organizations

- 7 ministries, 9 agencies, 28 administrative data

- 50 databases Iinked PHRD

Data usage	Frequency
TOTAL	50
Check the data	23
Deriving the data	21
Check and derive the data	6

Data matching
Person ID
Surname
Given name

PHRS

State organizations

Files Online services

Abroad registration online system

Person who live in abroad registration online system cooperate with Ministry of Foreign Affairs

- Cooperate with Ministry of Foreign Affairs
- Embassy officer and individual can access and register.
- Reports
- Linked with border database
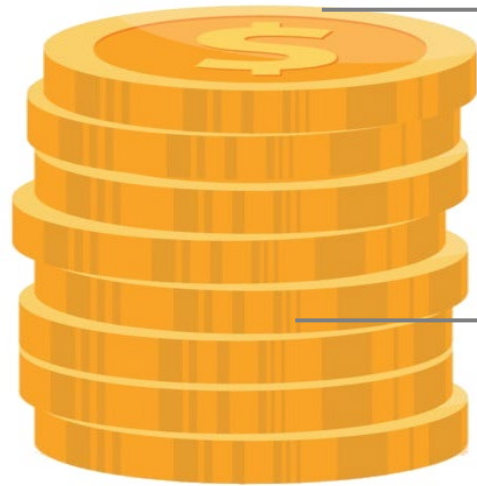
Person self-confirmation online system

- Linked with integrated System of Authentication - DAN
- Update own HH indicators and HH members information
- Send data to PHRD
- Between 2019.10.01-2020.01.08
- Total 10 384 households, 31 488 people

"DAN" integrated System of Authentication
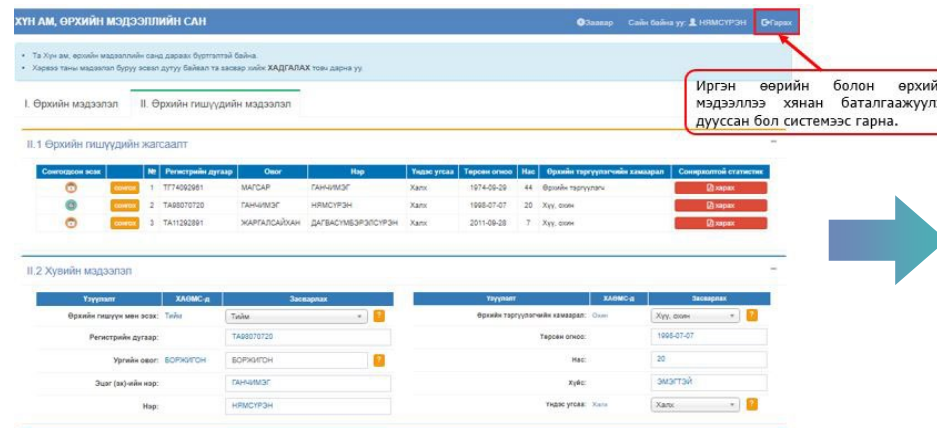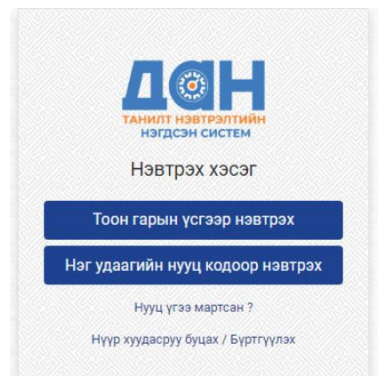
Budget

INITIAL BUDGET – 5.5

50 DATABASE

Complication

Takes a lot of time

Classification and codes are different

SAVING – 3.8

SPENT – 1.7

less than 1 USD per capita

Million U\SD

2020

Challenges and solutions

Challenge

- Data quality and classification issues took significant amount of time
- Data processing was delayed due to the Covid 19 pandemic
- Marketing during the Population and Housing Census period (Specially Register based PHC)

Advantage

- Cost saving
- Provided opportunities for government agencies to update and evaluate their databases
- Experience for the NSO to conduct censuses and survey using CAPI and CATI (especially during the domestic outbreak of Covid-19 since November 2020)

Thank you

Баярлалаа