



БАЙГАЛЬ ОРЧИН
АЯЛАЛ ЖУУЛЧЛАЛЫН ЯАМ



Asian Development Bank

THE BOHs – BASE OF THE SEEA IN MONGOLIA: OVERVIEW ON THE REVISING PROCESS OF ENVIRONMENTAL DATA COLLECTING FORMS, METHODOLOGY AND GUIDANCE UNDER ADB TA9245

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SECTION ONE (C2).

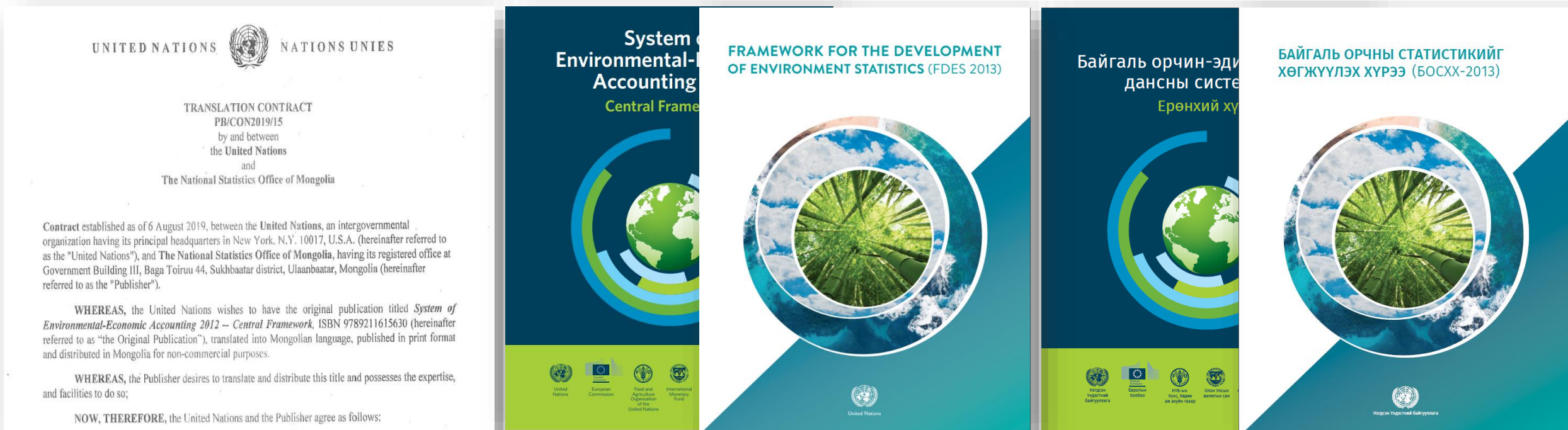
- I. Framework for Development Environment Statistics – 2013
- II. System of Environmental-Economic Accounting – 2012 Central Framework



“FDES-2013” & “SEEA-2012, CF” TO MONGOLIAN READERS

STEPS

- I. Translation of contract PB/CON2019/15 by and between the **United Nations and the National Statistics Office of Mongolia** (per manual)
- II. Translator selected
- III. Developed to working schedule of manuals review, translation and publication
- IV. Disseminated manuals



SEEA IMPLEMENTATION IN MONGOLIA

Main accounts and tables of the SEEA Central Framework:

Physical flow accounts	Environmental activity accounts and related flows	Asset accounts
<ul style="list-style-type: none">• <u>Material flow accounts</u>• <u>Physical supply and use table for water</u>• <u>Physical supply and use table for energy</u>• <u>Accounting for air emissions</u>• Accounting for emissions to water• <u>Solid waste accounts</u>	<ul style="list-style-type: none">• Environmental Protection Expenditure Accounts• Accounts for resource management expenditures• Environmental Goods and Services Sector• Environmental payments by government• <u>Environmental tax account</u>• Permits to use environmental assets• Permissions for emissions	<ul style="list-style-type: none">• Asset accounts for mineral and energy resources• Asset accounts for land• Accounting for soil resources• Asset accounts for timber resources• Asset accounts for aquatic resources• Accounting for other biological resources• <u>Asset accounts for water resources</u>

COMPILED ACCOUNTS:

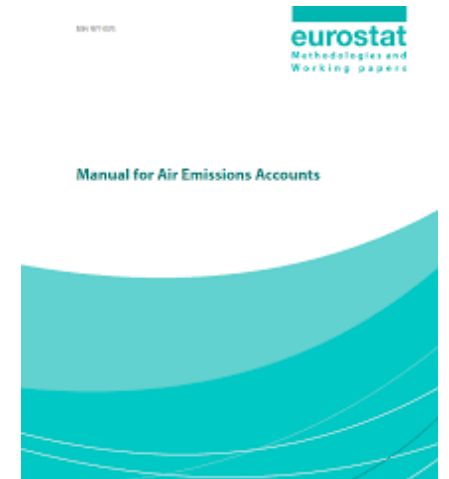
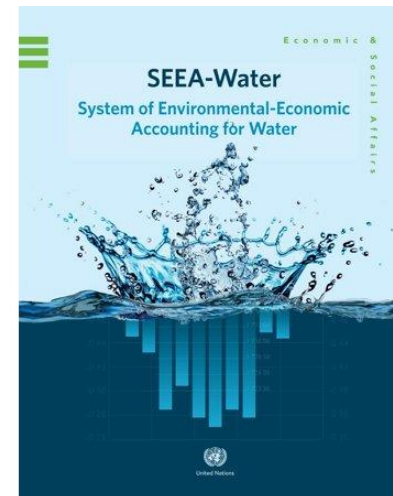
1. Material flow accounts /2005-2018/
2. Physical supply and use table for energy /2015-2016/
3. Environmental tax accounts /2015-2018/

PILOT ESTIMATING:

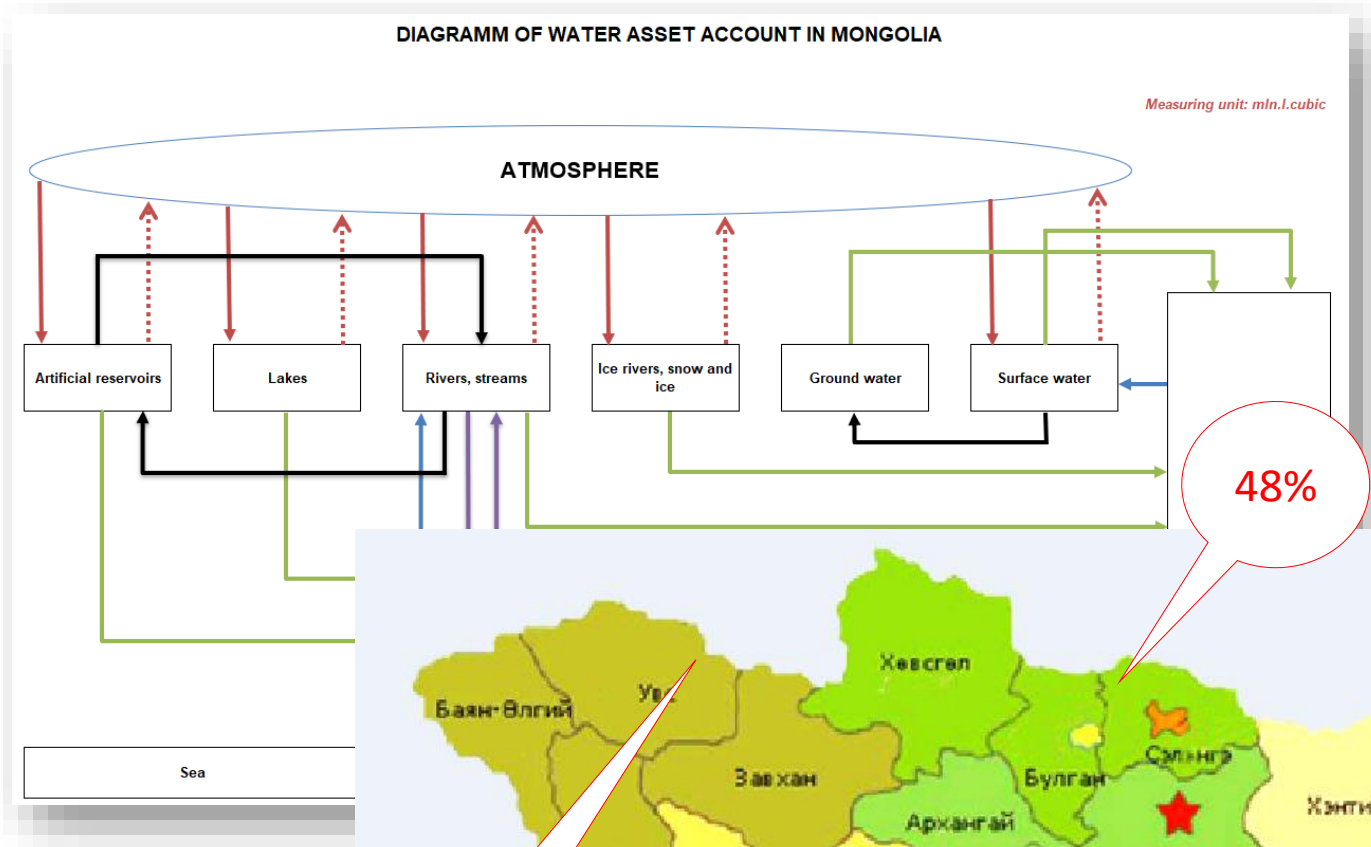
1. Environmental protection expenditure accounts /2015-2018/
2. **Water accounts /National level/**
3. **Solid waste accounts Urban level (Ulaanbaatar)**
4. **Air emission accounts Urban level (Ulaanbaatar)**

ACTIVITIES IMPLEMENTED FOR SUB ACCOUNTS

- I. **INCEPTION WORKSHOP** - workshop on water, solid waste and air emissions accounts in Mongolia in the Framework of System of Environmental-Economic Accounting (2019.V.11-14)
+ UN-ESCAP - First mission (Mr. Teerapong and Mr. Micheal Bordt)
- I. **UN-SIAP training** – participation of one of the team members (2019.IX.02-06)
- II. **UN-ESCAP – Second mission** (Mr. Soheil Rastan) (2019.X.08-10)
- III. **MEETING OF STAKEHOLDERS**
- IV. **FINAL WORKSHOP** – FDES and SEEA (2019.X.25)



WATER ACCOUNTS



REQUIRED INFORMATION

Rate of evaporation - ?

Border water - ?



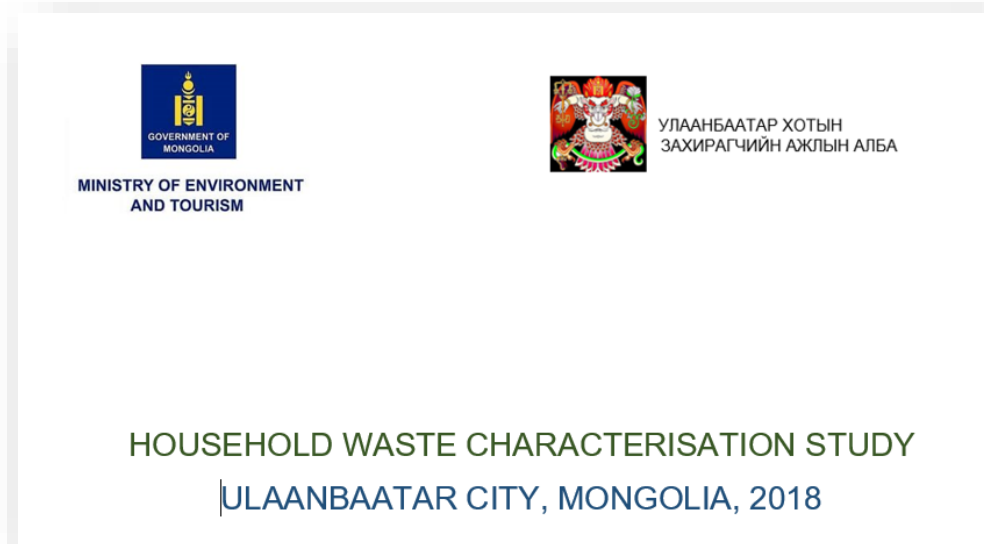
Use of ground water, by region (MET)

SOLID WASTE ACCOUNTS

We are compiling city-level data (for ULAANBAATAR – as capital city).

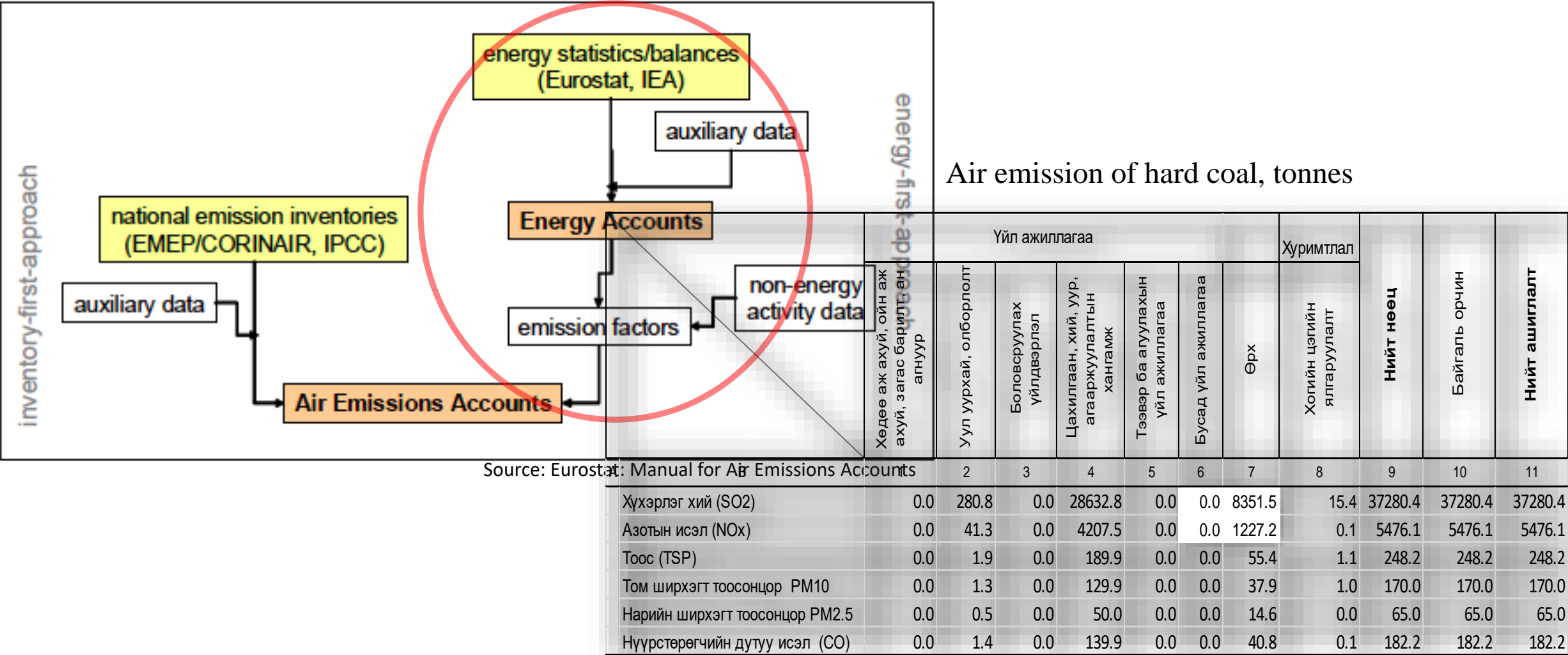
DATA SOURCES:

1. REPORT OF SOLID WASTE (MET), linking BOH form
2. HOUSEHOLD WASTE CHARACTERISATION STUDY, The Asia Foundation - 2018
3. INDUSTRIAL WASTE INVENTORY IN MONGOLIA, PAGE - 2017



AIR EMISSION ACCOUNTS

We are compiling data for ULAANBAATAR (the capital city) level and base in SEEA - Energy accounts



Хөдөө аж ахуй, ойн аж ахуй, загас барилт, ан агнуур

WAY FORWARD

- ❖ IMPROVE WATER, SOLID WASTE AND AIR EMISSION ACCOUNT CALCULATIONS
- ❖ DEVELOP RATE OF EVAPORATION AND BORDER WATER
- ❖ CALCULATE NATIONAL EMISSION FACTOR
- ❖ IMPROVE COOPERATION AMONG ORGANIZATIONS (NSO, MET, etc.)
- ❖ DEVELOP A NATIONAL METHOD FOR SETTING ACCOUNTS



JUSTIFICATION

- Ensure and report implementation of the SDGs, FDES, Sendai Framework, MEAs, etc. in Mongolia;
- Create a base/source of the SEEA in Mongolia;
- Improve environmental statistical data/information, existing dataflow and database.

SECTION TWO (C1).

I. GAP ANALYSIS

II. THE REVISING PROCESS OF THE 'BOH' FORMS, METHODOLOGY AND GUIDANCE



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ОРЧИН, АЯЛАЛ
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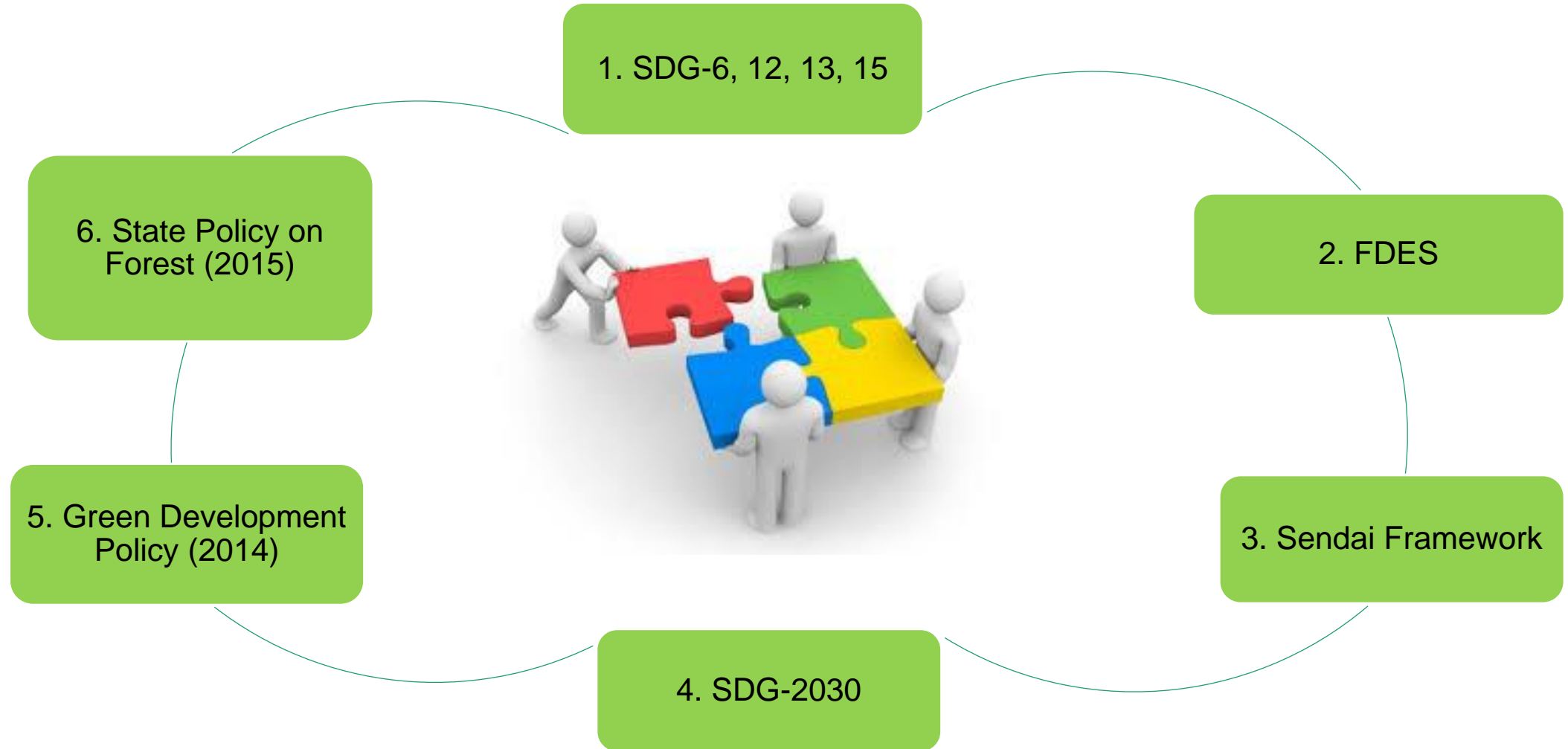


МОНГОЛ УЛСЫН
ҮНДСЭНИЙ СТАТИСТИКИЙН
ХОРОО

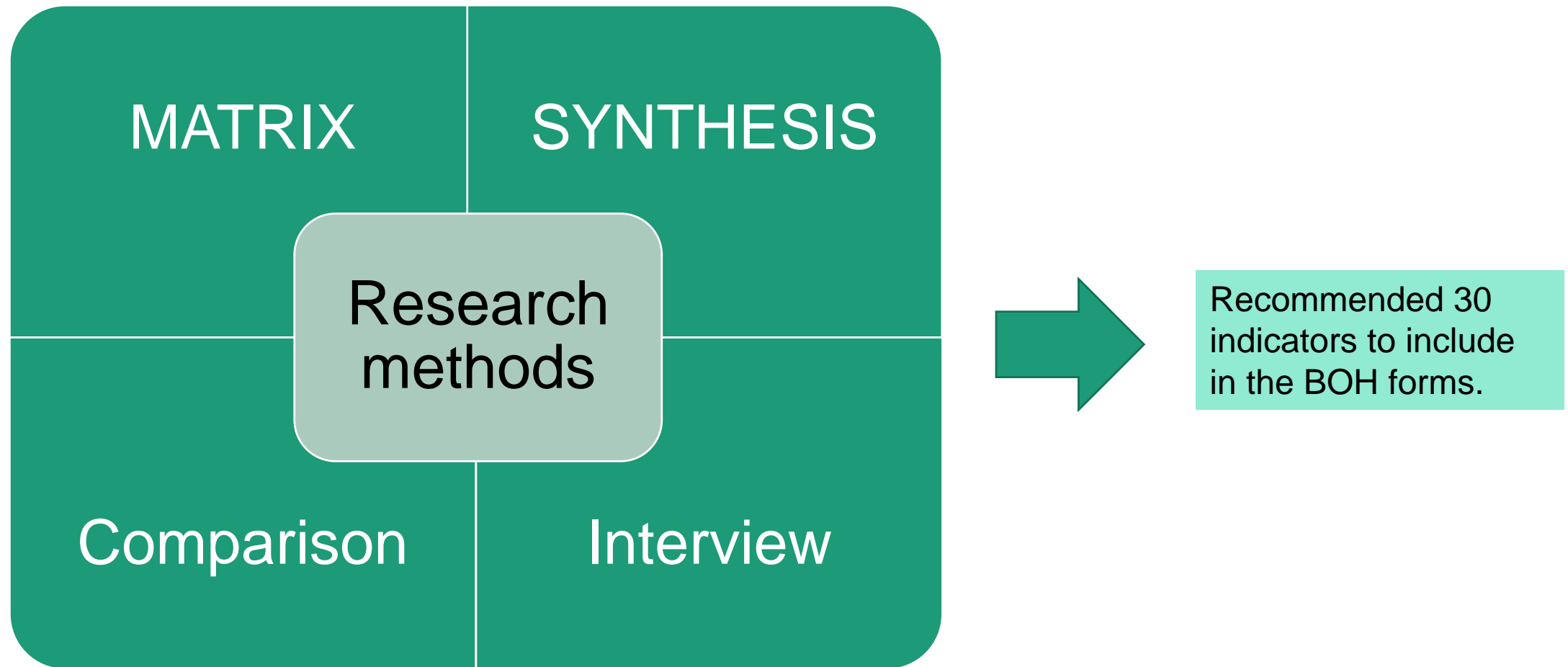
БАЙГАЛЬ ОРЧНЫ СТАТИСТИК МЭДЭЭЛЛИЙН ГАРЫН АВЛАГА



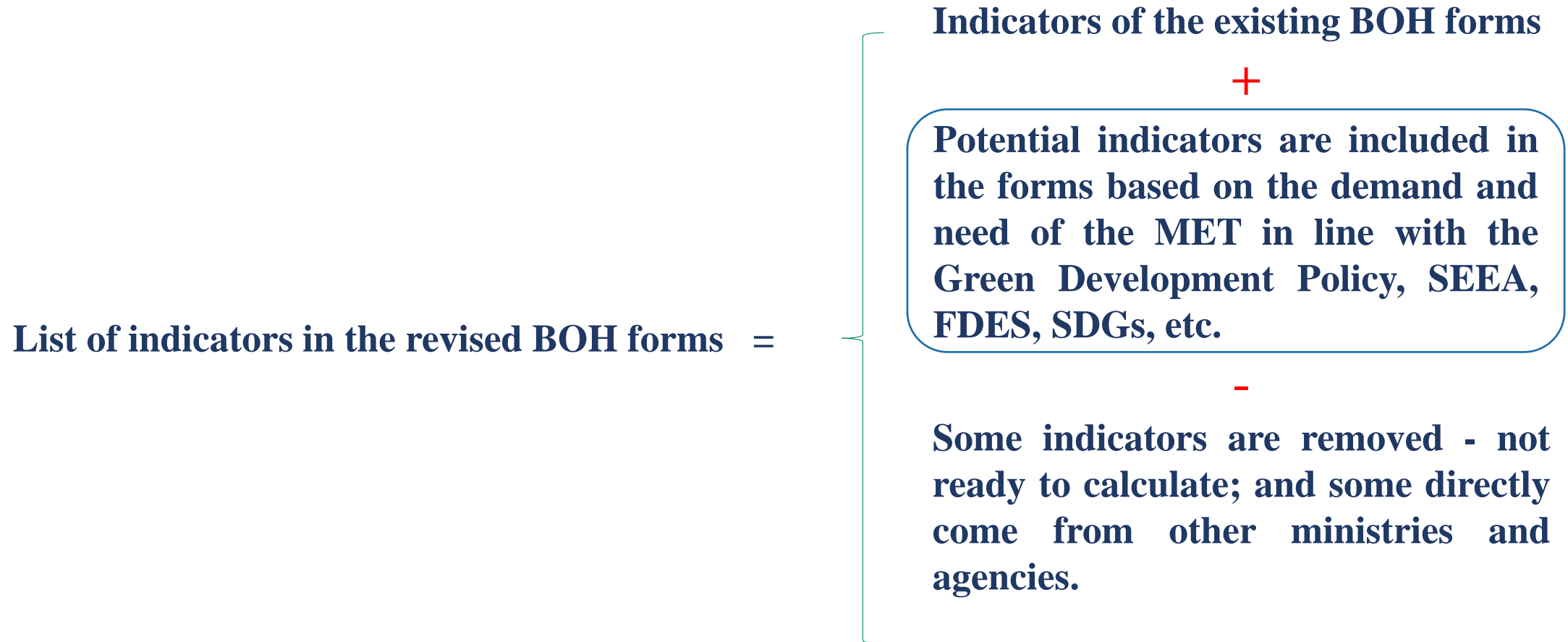
I. GAP ANALYSIS



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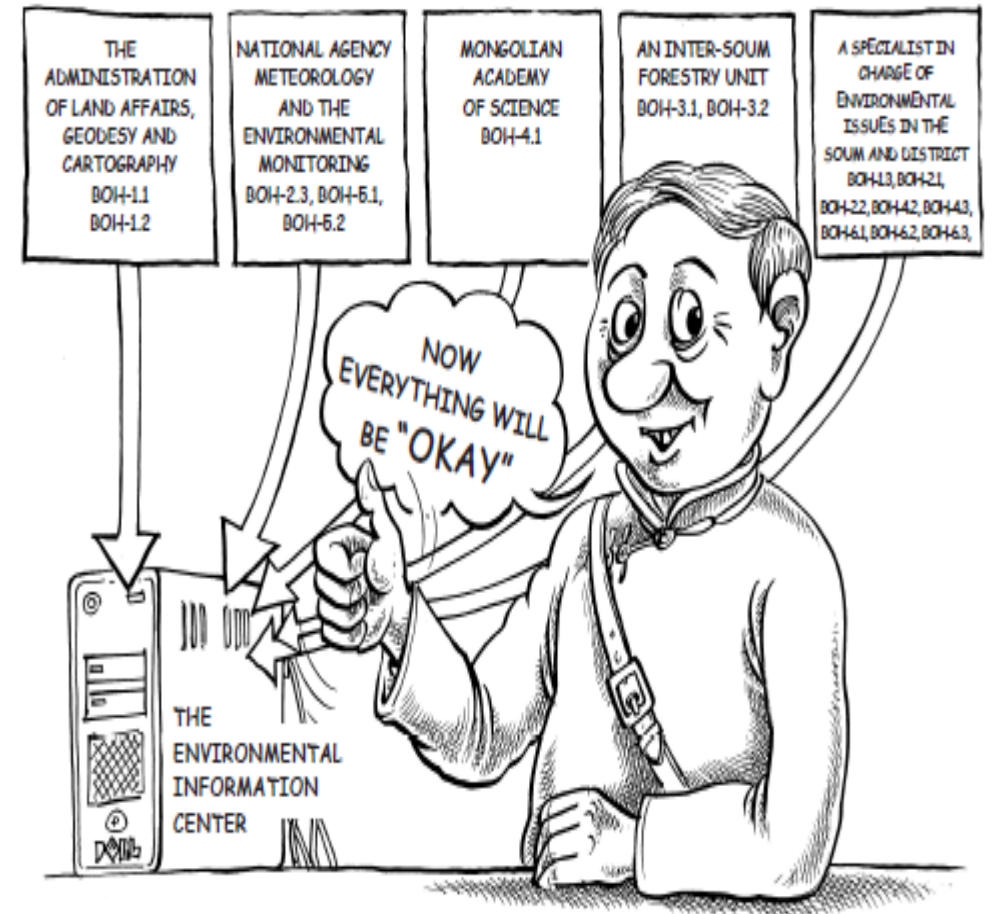
II. THE REVISING PROCESS OF THE 'BOH' FORMS, METHODOLOGY AND GUIDANCE



BOH is an abstract of save the environment.

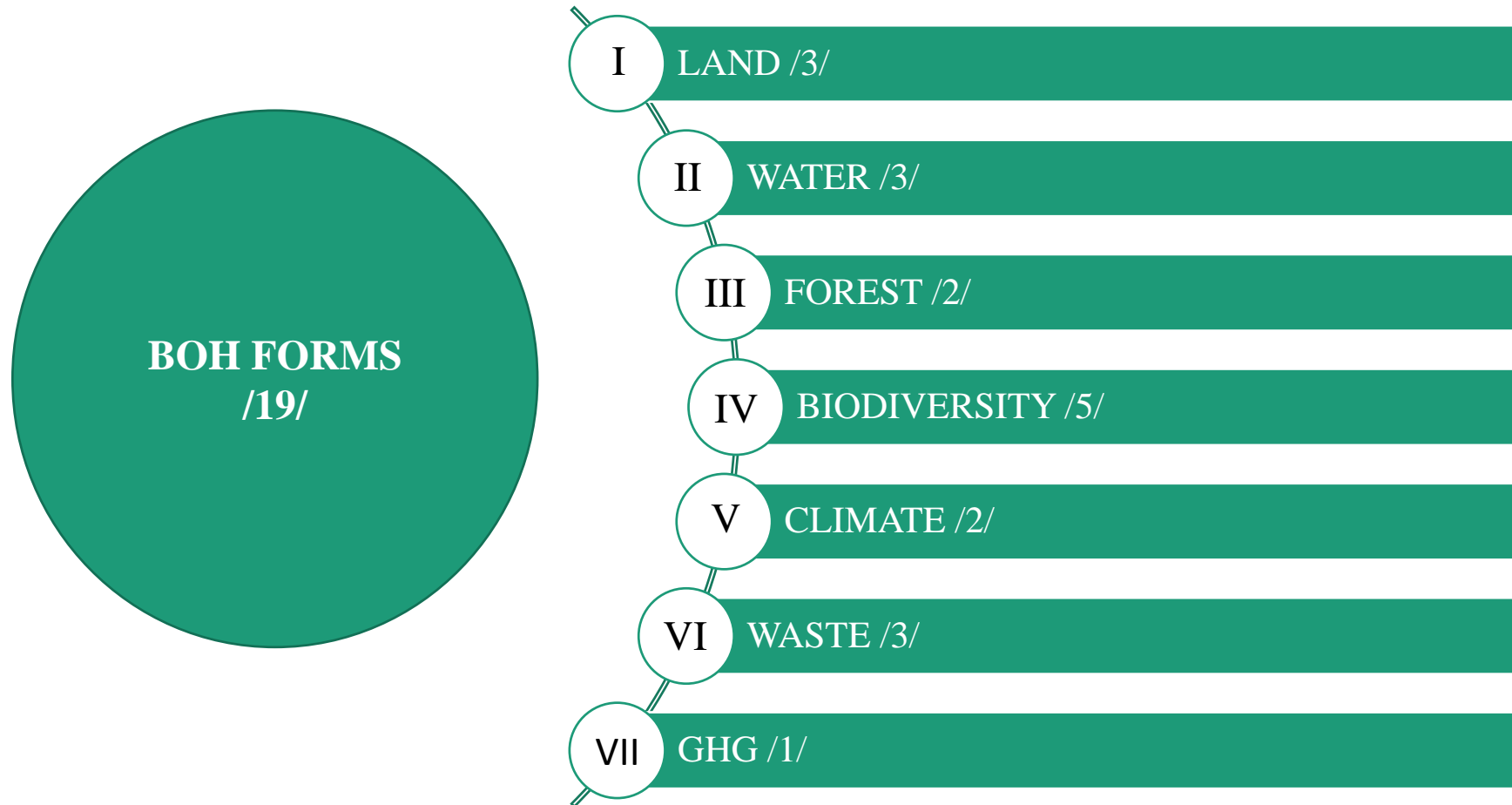
II. THE REVISING PROCESS OF THE 'BOH' FORMS, METHODOLOGY AND GUIDANCE

Information flow of the environmental data before and after the revising



II. THE REVISING PROCESS OF THE 'BOH' FORMS, METHODOLOGY AND GUIDANCE

Each form is improved and updated in accordance with the integrated standard.



II. THE REVISING PROCESS OF THE ‘BOH’ FORMS, METHODOLOGY AND GUIDANCE

Previous			New			Explanation
Name of the form	Code	Number of indicators	Name of the form	Code	Number of indicators	
Report on land resource in 20...	BOH-1	14	Annual data/report on land resource in 20...	3-BOH-1.1	57	Revised
Report on damaged land, rehabilitation, protection measures, and payment of revenue in 20...	BOH-2	20	Annual data/report on land degradation, restoration, expenditure on protection and restoration in 20...	3-BOH-1.2	38	
Report on rehabilitation of damaged land due to mining in 20...	BOH-3	73	Annual data/report on rehabilitation of broken land by mining operation in 20...	3-BOH-1.3	39	Revised
Report on fresh water scarcity in 20...	BOH-4.1	16	Annual data/report on water resources and it's depletion, protection in 20...	3-BOH-2.1	15	Revised
Report on fresh water use in 20...	BOH-4.2	19	Annual data/report in water use in 20...	3-BOH-2.2	30	Revised
Report on wastewater treatment plant in 20...	BOH-4.3	20				Removed
Report on water quality in 20...	BOH-4.4	8	Annual data/report on water quality in 20...	3-BOH-2.3	9	Revised
Report on forest resources, conservation, rehabilitation and use in 20...	BOH-5	31	Annual data/report on forest resources and its utilization in 20...	3-BOH-3.1	31	Revised
			Annual data/report on forest deforestation, degradation, rehabilitation and reforestation in 20...	3-BOH-3.2	39	

II. THE REVISING PROCESS OF THE ‘BOH’ FORMS, METHODOLOGY AND GUIDANCE

Previous			New			Explanation
Name of the form	Code	Number of indicators	Name of the form	Code	Number of indicators	
Report on fauna in 20...	BOH-6.1	23	Annual data/report on biodiversity resources in 20...	3-BOH-4.1	29	Revised
Annual data/report on natural flora resources in 20...	BOH-10.1	15				
Annual data/report on protection and use of fauna in 20...	BOH-6.2	21	Annual data/report on fauna use and protection in 20...	3-BOH-4.2	15	Revised
Annual data/report on protection and use of natural flora in 20...	BOH-10.2	13	Annual data/report on natural flora use and protection in 20...	3-BOH-4.3	16	Revised
			Annual data/report on illegal demand and supply of the products from animal and plant in 20...	3-BOH-4.4	15	New
Annual data on solid waste in 20...	BOH-7.1	13	Annual data/report of solid waste in 20...	3-BOH-6.1	23	Revised
Annual data on waste recycling in 20...	BOH-7.2	16	Annual data/report of waste recycling in 20...	3-BOH-6.3	27	Revised
Annual data on air quality in 20...	BOH-8.1	14	Annual data/report of air quality in 20...	3-BOH-5.2	10	Revised
Annual data on GHG emission in 20...	BOH-8.2	48	Biannual data/report on greenhouse gas emission's survey	3-BOH-7	9	Revised
			Annual data/report of hazardous waste in 20...	3-BOH-6.2	17	New
Annual data on lead emissions in air in 20...	BOH-8.3	5				Removed
Annual report of climate and natural disaster in 20...	BOH-9	19	Annual data/report on climate in 20...	3-BOH-5.1	15	Revised
Total		388			434	

3. METHODOLOGY TO CALCULATE THE MAIN INDICATORS OF ENVIRONMENTAL STATISTICS

METHODOLOGY

- JUSTIFICATION
- PRINCIPLES
- CLASSIFICATION AND STANDARD
- DESCRIPTION OF THE INDICATORS
- CALCULATION METHOD
 - I. LAND
 - II. WATER
 - III. FOREST
 - IV. BIODIVERSITY
 - V. CLIMATE
 - VI. WASTE
 - VII. DISASTER

3. METHODOLOGY TO CALCULATE THE MAIN INDICATORS OF ENVIRONMENTAL STATISTICS

Number of indicators reflected in the methodology

Name of the group	Total number of indicators		
		Indicator of the SDG	Indicators of the FDES
Land	12	6	5
Water	9	5	3
Forest	7	-	1
Biodiversity	3	3	2
Waste	4	4	2
Climate	4	1	-
Disaster	2	2	1
Total	41	21	14

Number of indicators reflected in the description of the indicators

Name of the group	Total number of indicators
Land	30
Water	11
Forest	11
Biodiversity	15
Waste	25
Climate	7
Disaster	4
Population	1
Total	104

4. WAY FORWARD

- ❖ Collaboration to improve quality of administrative statistics and connect with other data and information sources (capacity building, strengthen cooperation between and among related organizations)
- ❖ Still need to address remaining indicators of SDGs not yet estimated in Mongolia
- ❖ Integrated database of environmental statistics and providing users with reliable data/information from formal and single source

Thank you for your attention!

