COMMUNICATIONS
REGULATORY COMMISSION
OF MONGOLIA

BASIC SPECIFICATIONS
OF LICENSED SERVICE
PROVIDERS OF CRC

Law of License
Law of Communications

Main purpose

- Market analyze and research
- Regulatory decision
- Define communications industry development
- Provide information to all stakeholders and market entrants
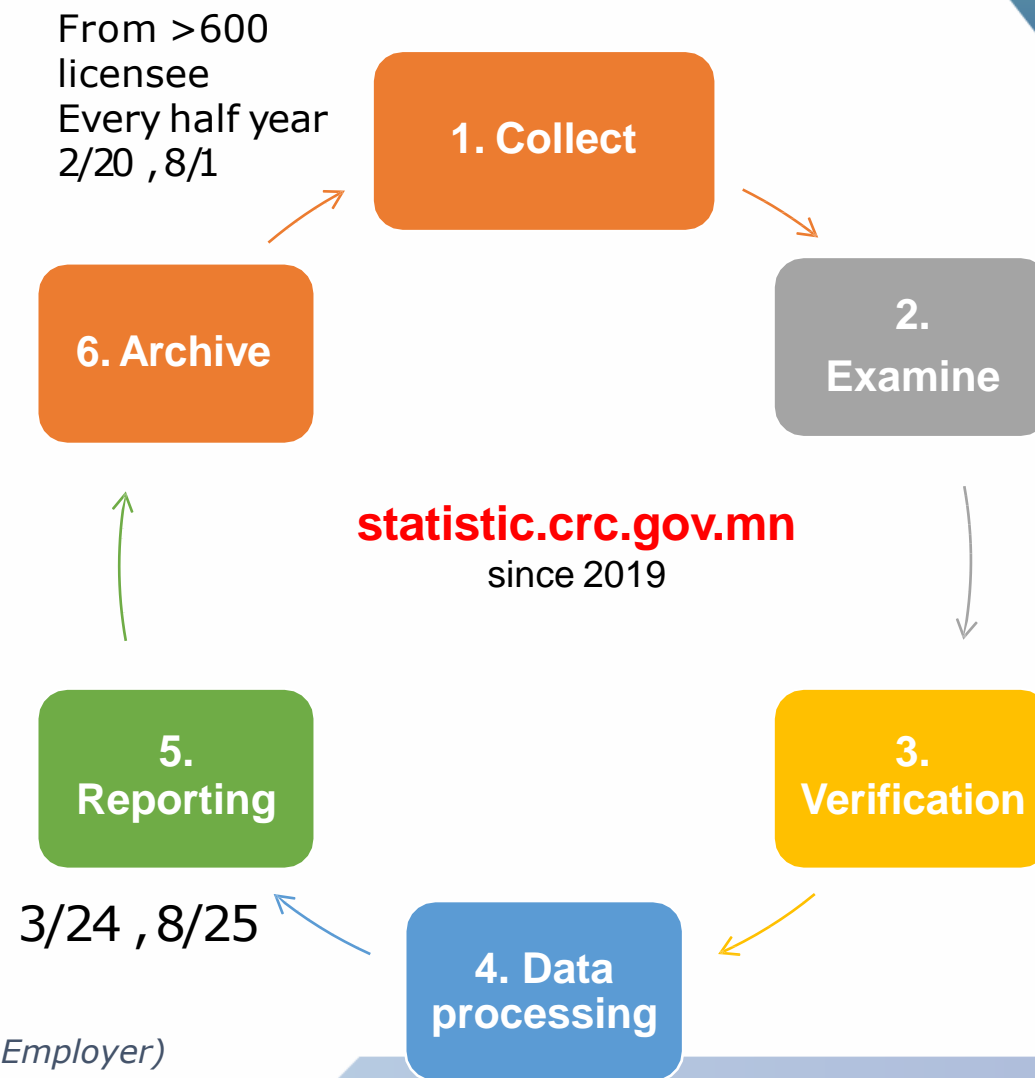- Evaluate and enforce license agreement, terms and conditions

ICT Indicators Short
ICT Indicators Long
(Fixed, Mobile, Internet, Broadband, QoS, Traffic, Revenue, Investment, Employer)
ICT Price Basket
(Mobile cellular, mobile broadband, fixed broadband internet)

From >600 licensee
Every half year
2/20 , 8/1

statistic.crc.gov.mn
since 2019

1. Collect

2. Examine

3. Verification

4. Data processing

5. Reporting

6. Archive

3/24 , 8/25

MAIN INDICATORS

1. No. of License

2. Mobile cellular

Active subscriber
3G, 4G, Data, M2M
Mobile broadband
ARPU, Market share,
Traffic (voice, sms, data)
Smart phone

3. Fixed telecom

4. Communications network

5. Fixed internet

Active subscriber
Voice traffic

6. Domain name

Active subscriber
by speed, by technology

Backbone Fiber optic
network length
Wholesale internet
capacity/International
bandwith

7. Broadcasting

8. Post service

Active subscriber
by technology (IPTV, Sat,
CaTV)

9. Economic data

10. Employee

International & Local
traffic

Total income,
investment,
tax
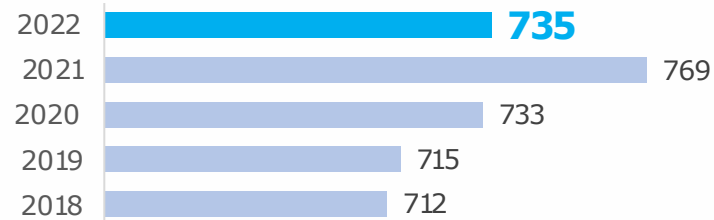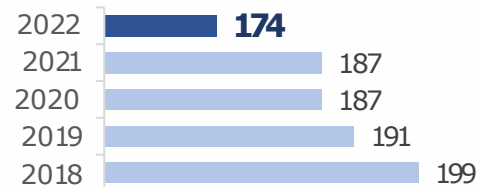
+QoS
+Technical requirements

1 No of License issued

Communications service license, by type
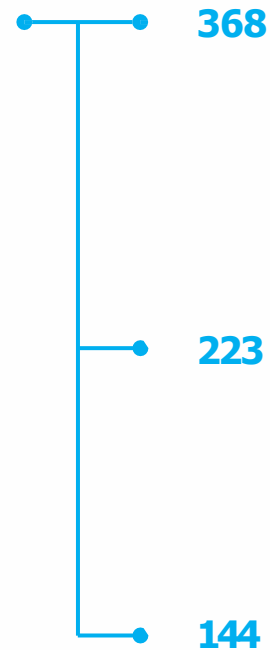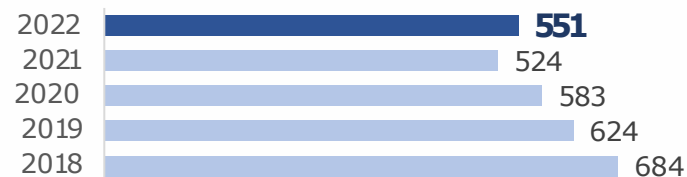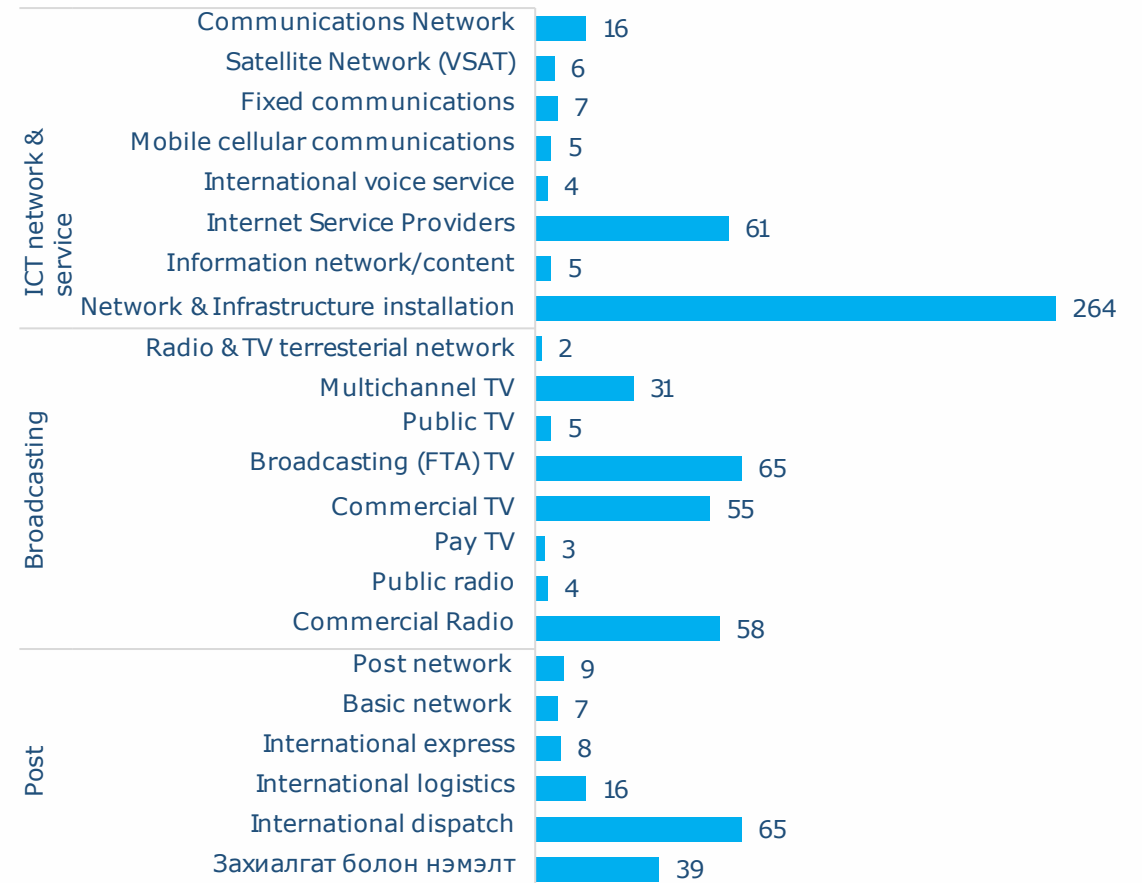
Communications Service License

Year	Value
2022	**735**
2021	769
2020	733
2019	715
2018	712

368

Radio frequency license

Year	Value
2022	**174**
2021	187
2020	187
2019	191
2018	199

223

Radio frequency certificate

Year	Value
2022	**551**
2021	524
2020	583
2019	624
2018	684

144

ICT network & service

Type	Value
Communications Network	16
Satellite Network (VSAT)	6
Fixed communications	7
Mobile cellular communications	5
International voice service	4
Internet Service Providers	61
Information network/content	5
Network & Infrastructure installation	264

Broadcasting

Type	Value
Radio & TV terresterial network	2
Multichannel TV	31
Public TV	5
Broadcasting (FTA) TV	65
Commercial TV	55
Pay TV	3
Public radio	4
Commercial Radio	58

Post

Type	Value
Post network	9
Basic network	7
International express	8
International logistics	16
International dispatch	65
Захиалгат болон нэмэлт	39

2. Cellular communication

Active user of mobile broadband

Yeaar	Mobile data and cellular combined	Only mobile data	M2M
2018	3,325,317	95,239	78,714
2019	3,351,665	252,686	108,238
2020	3,353,188	226,583	118,403
2021	3,633,268	255,971	113,765
2022	**3,644,821**	**352,079**	**193,135**

Only mobile data and M2M users number

Number of active users in 3G and LTE networks

3G: 2,430,183 · 2,625,685 · 2,515,872 · 3,190,595 · 3,294,303 · 3,539,362 · 3,559,582

LTE: 216,401 · 677,131 · 1,473,360 · 1,956,800 · 2,365,121 · 2,809,592 · 3,093,666
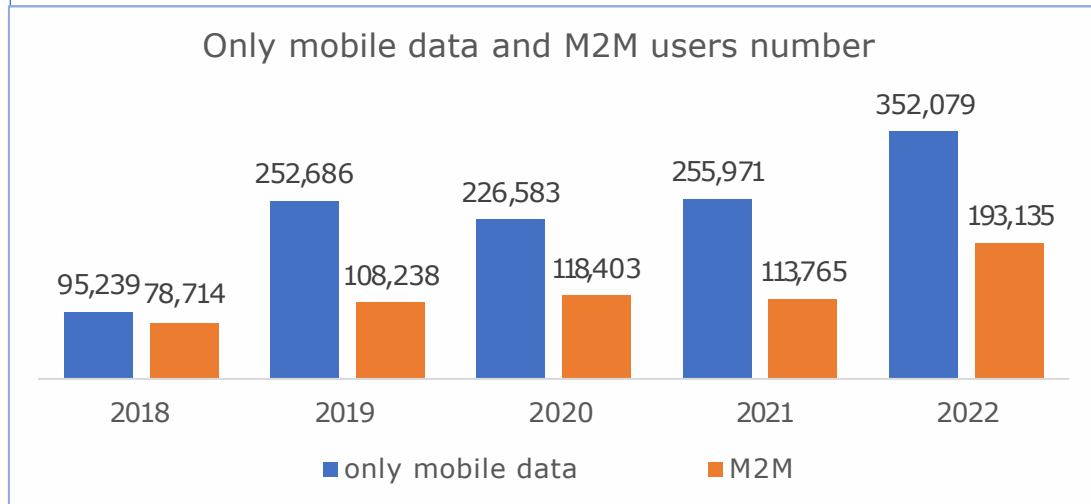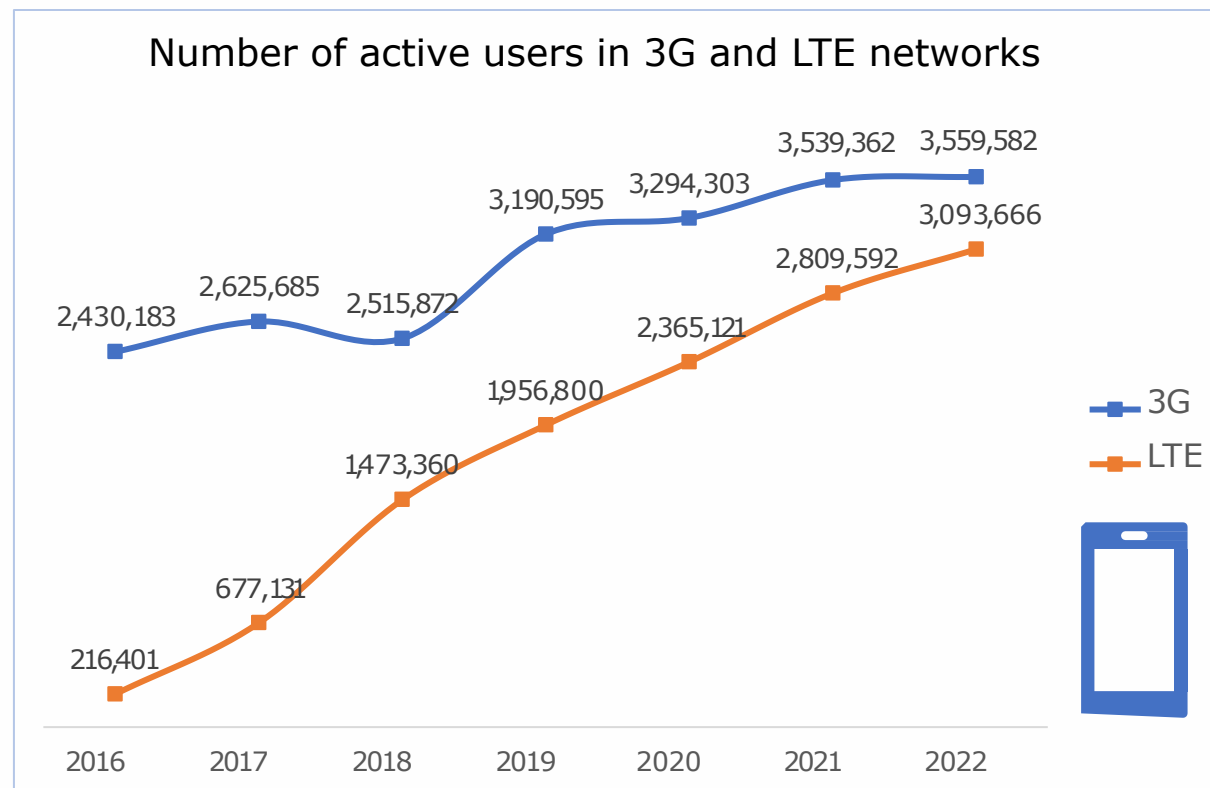
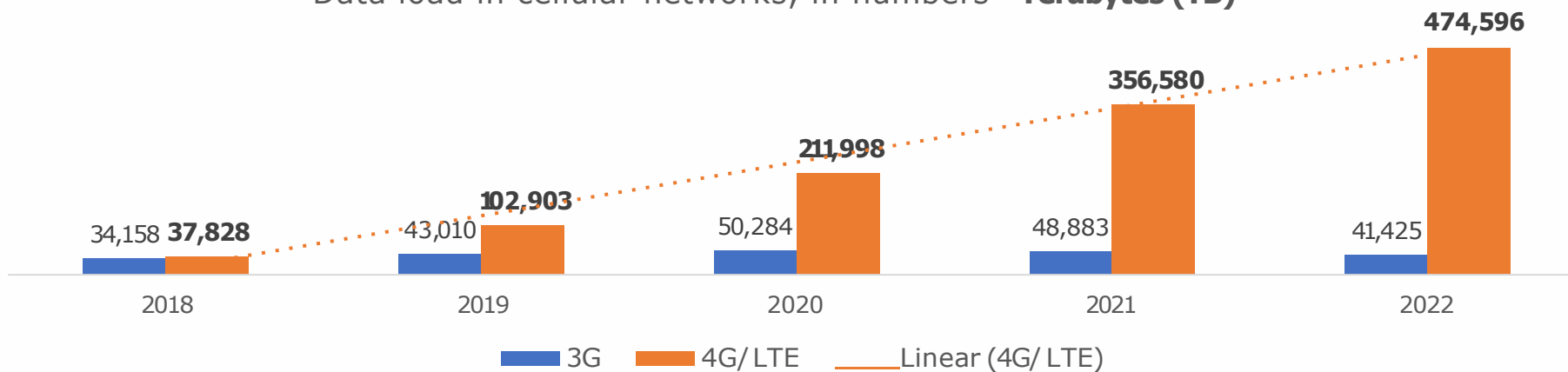|	2018	2019	2020	2021	2022
Mobile Broadband LTE/Wimax Smart Box User	101,959	102,185	114,602	136,030	133,851

2. CELLULAR COMMUNICATION
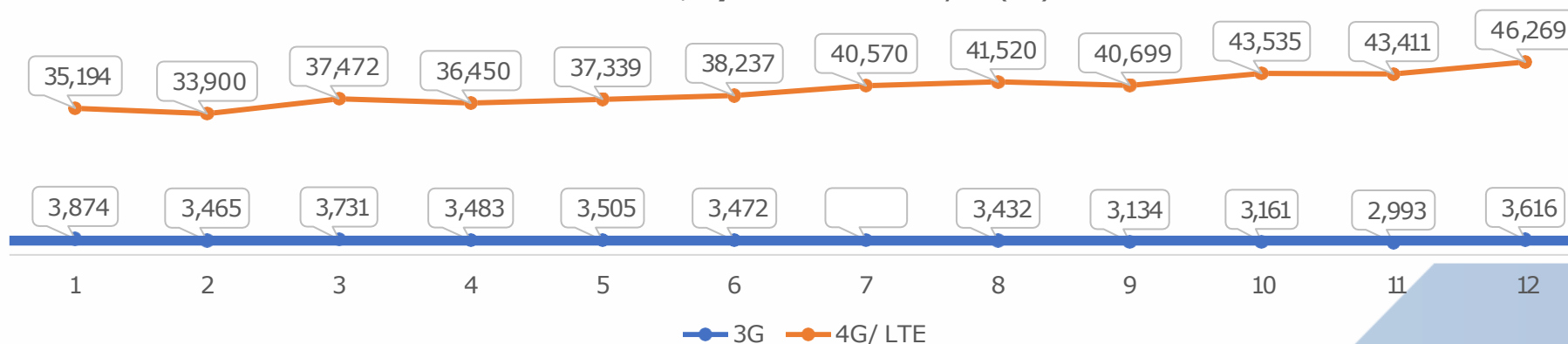
Usage/Load – Voice, Messaging, Data

Data load in cellular networks, in numbers - Terabytes (TB)

Year	3G	4G/LTE
2018	34,158	37,828
2019	43,010	102,903
2020	50,284	211,998
2021	48,883	356,580
2022	41,425	474,596

■ 3G ■ 4G/LTE ⋯ Linear (4G/LTE)

On the cellular LTE network, **one user** used an average of **12.8 GB** of data **per MONTH**

4G LTE

Data load in 2022, **by months** - Terabytes (TB)

4G/LTE by month: 35,194 | 33,900 | 37,472 | 36,450 | 37,339 | 38,237 | 40,570 | 41,520 | 40,699 | 43,535 | 43,411 | 46,269

3G by month: 3,874 | 3,465 | 3,731 | 3,483 | 3,505 | 3,472 | | 3,432 | 3,134 | 3,161 | 2,993 | 3,616

Months: 1 2 3 4 5 6 7 8 9 10 11 12

● 3G ● 4G/LTE

2. CELLULAR COMMUNICATION   Number of smartphone users
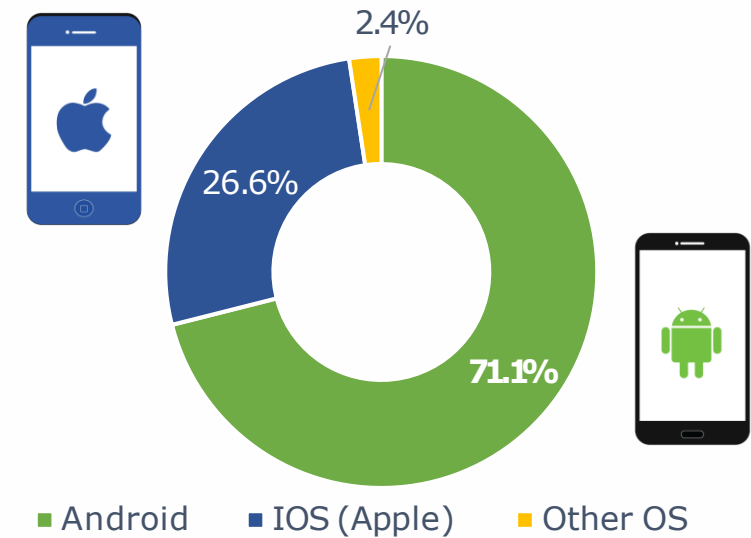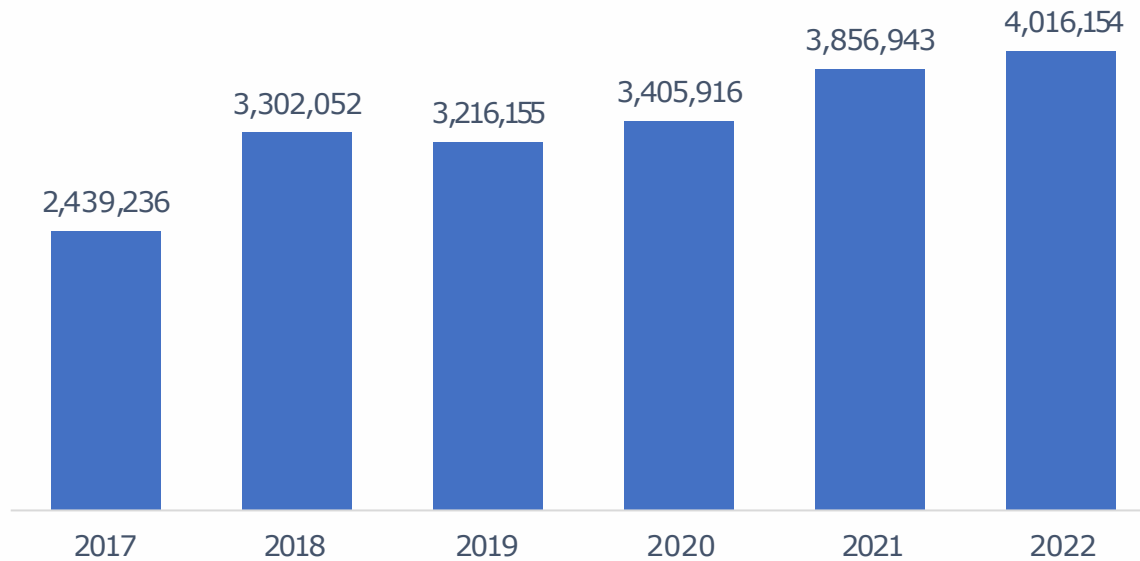
	Android	IOS (Apple)	Others	TOTAL
2021	2,843,720 (73.7%)	766,748 (19.9%)	246,475 (6,4%)	3,856,943
2022	2,853,681 (71.6%)	1,066,465 (26.5%)	96,008 (2.3%)	4,016,154

- Android - IOS (Apple) - Other OS

2.4%

26.6%

71.1%

4. COMMUNICATION NETWORK Wholesale internet services

Outbound Internet traffic capacity, Gbit/sec

	2021.06.30	2021	2022.06.30	2022
Interstate transit flow (Gbps)	1070	1370	1410	1700
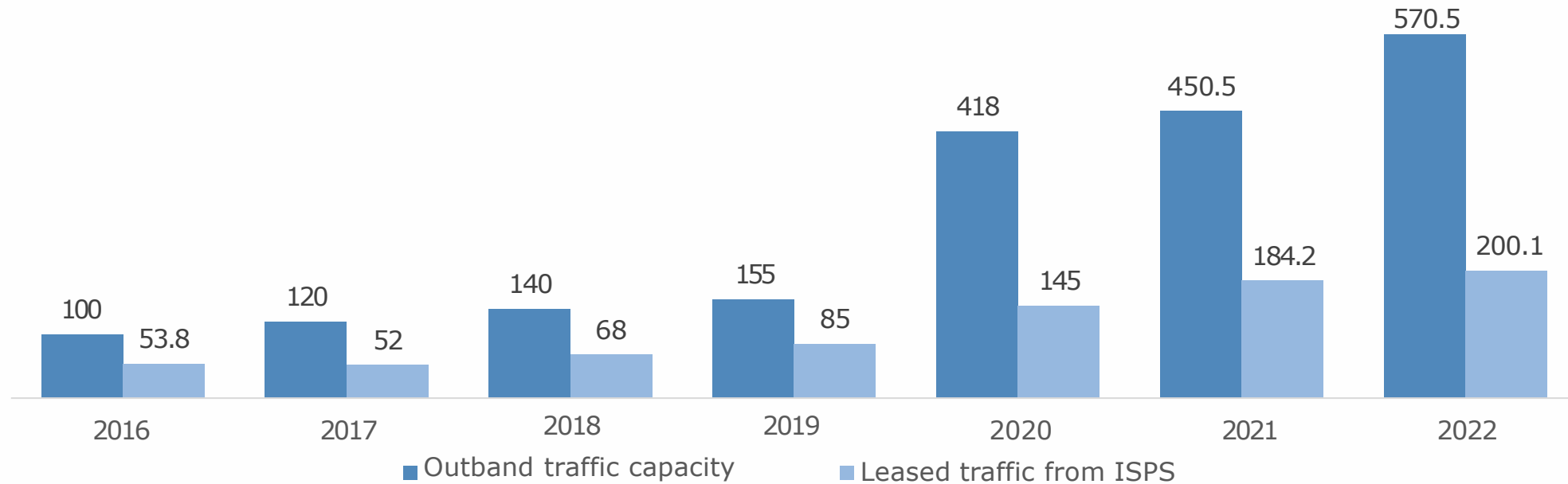
51 ISPs are using a total of 200.1 Gbps of traffic.

5. LANDLINE INTERNET SERVICES

By number and type of active users

	2018	2019	2020	2021	2022
Business entity	17,169	17,917	15,259	15,739	20,754
Public institutions	3,623	5,807	3,965	7,719	3,837
Household	285,358	293,593	287,942	356,269	411,856

Totals: 306,150 (2018), 317,317 (2019), 307,166 (2020), 379,727 (2021), 436,447 (2022)
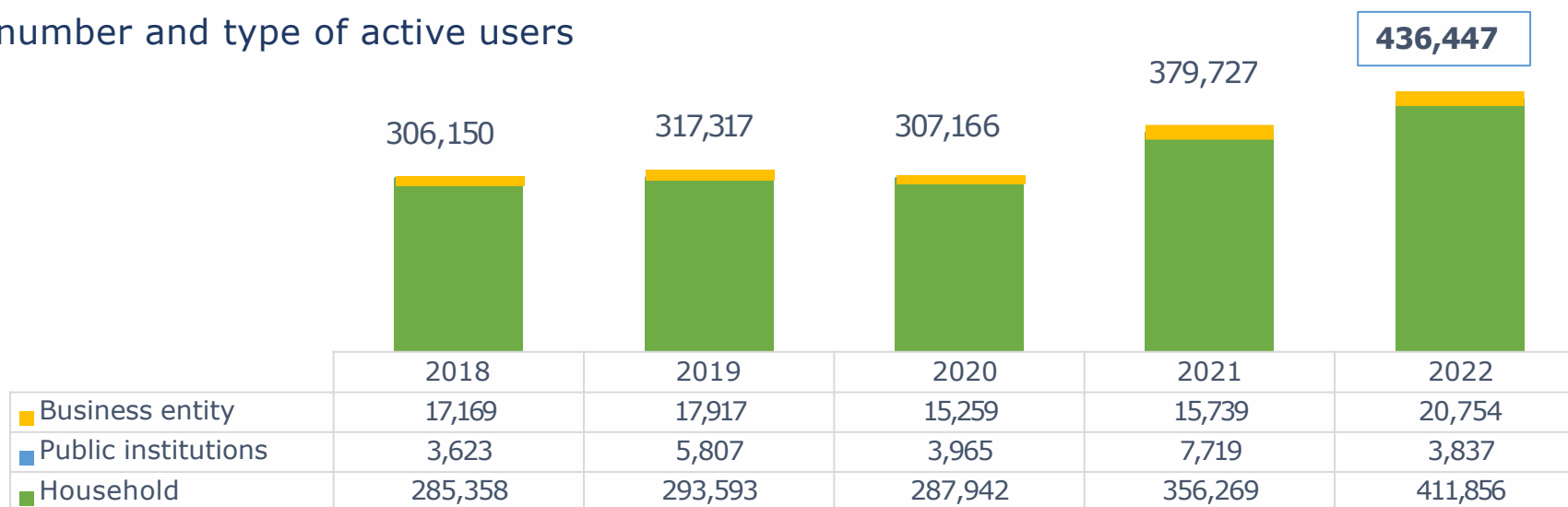
45.0 % of all households are connected to fixed Internet.

By number of active users and location

Ulaanbaatar: 247,315 (2018), 244,528 (2019), 223,221 (2020), 281,429 (2021), 319,773 (2022)

Rural area: 58,835 (2018), 72,789 (2019), 83,945 (2020), 98,298 (2021), 116,674 (2022)

77.5 % of households
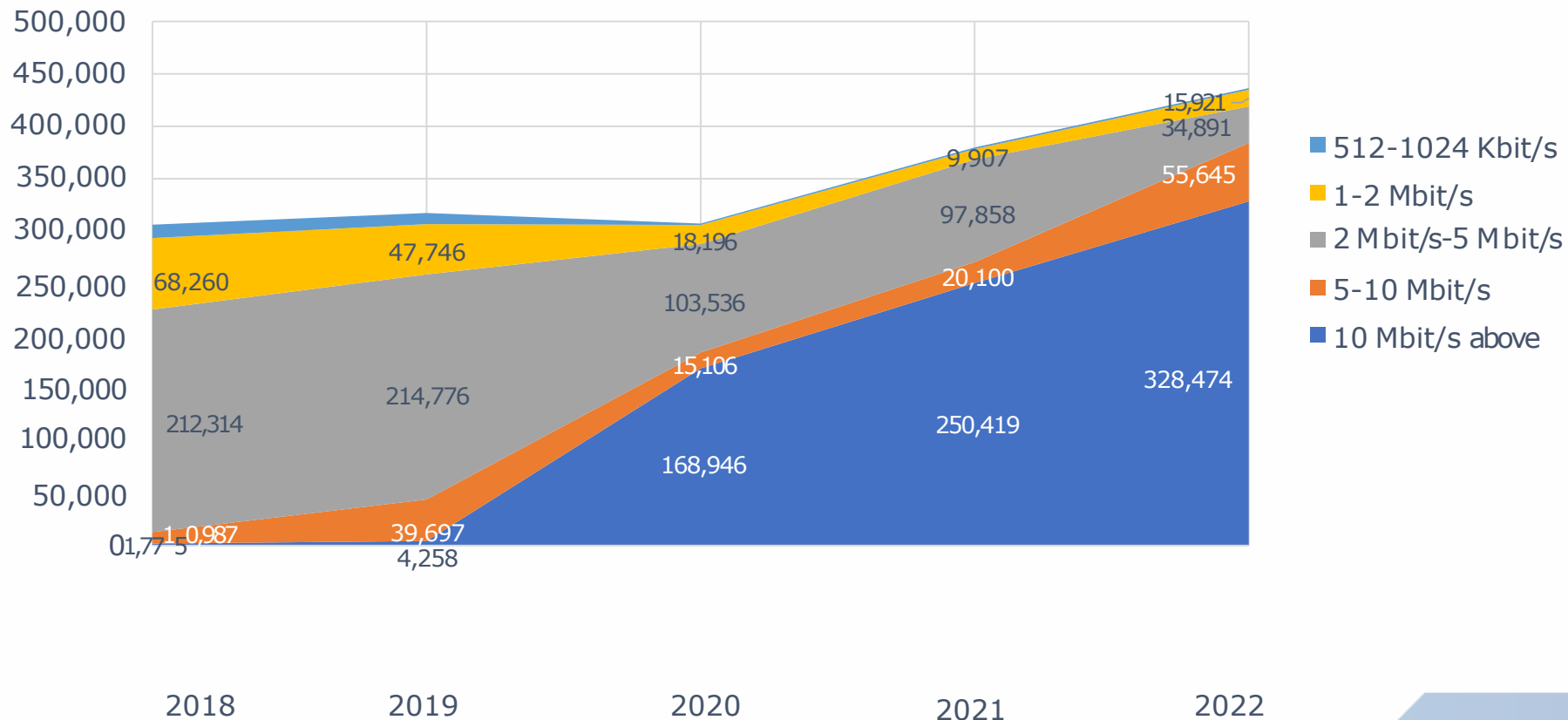
23.0 %

COMMUNICATIONS
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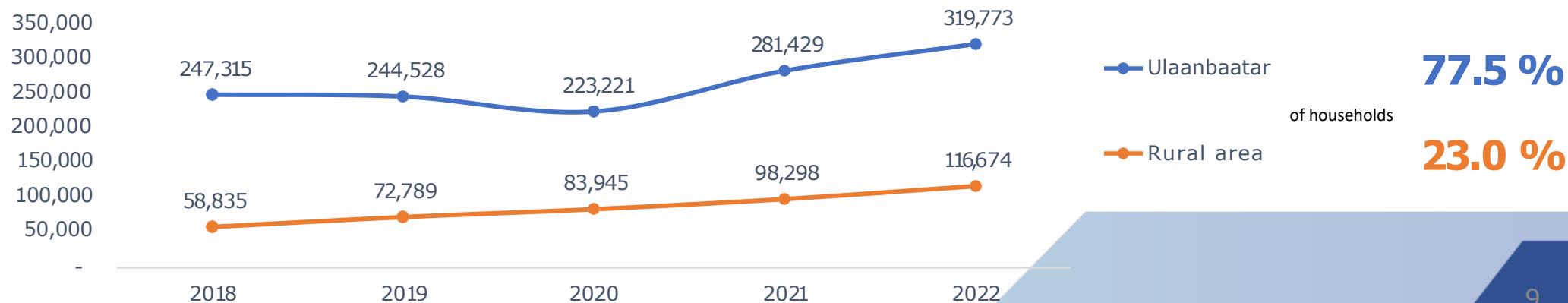
5. LANDLINE INTERNET SERVICES

By the number of active users and the rate of acquisition

95.0%
of fixed internet users are using **fiber optic cable.**

75%
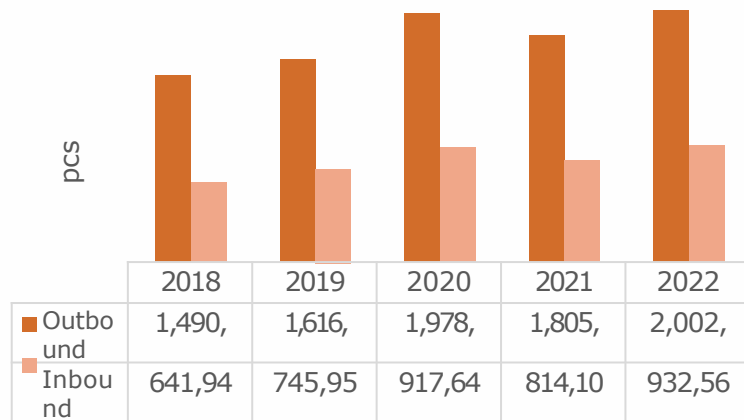of fixed internet users are getting internet at a speed above 10 Mbit/s.

Chart values:

	512-1024 Kbit/s	1-2 Mbit/s	2 Mbit/s-5 Mbit/s	5-10 Mbit/s	10 Mbit/s above
2018		68,260	212,314	10,987	1,775
2019		47,746	214,776	39,697	4,258
2020		18,196	103,536	15,106	168,946
2021	9,907	97,858	20,100		250,419
2022	15,921	34,891		55,645	328,474

Legend:
- 512-1024 Kbit/s
- 1-2 Mbit/s
- 2 Mbit/s-5 Mbit/s
- 5-10 Mbit/s
- 10 Mbit/s above

8. Postal service

SPECIFICATIONS OF EXCHANGE

Domestic postal exchange (pcs)

Letters

	2018	2019	2020	2021	2022
Outbound	1,490,	1,616,	1,978,	1,805,	2,002,
Inbound	641,94	745,95	917,64	814,10	932,56

Package

	2018	2019	2020	2021	2022
Outbound	19,305	19,885	45,594	161,49	149,81
Inbound	18,908	19,547	41,179	154,25	146,71

Shipment

	2018	2019	2020	2021	2022
Outbound	50,990	49,124	61,769	166,42	98,109
Inbound	49,682	46,973	54,635	154,33	92,058
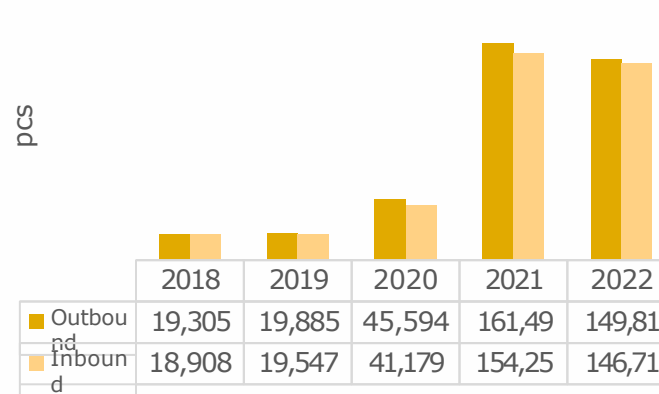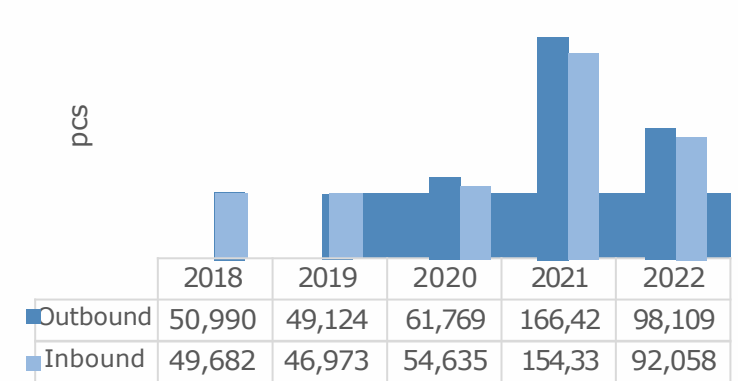
International postal exchange (pcs)

Letters

	2018	2019	2020	2021	2022
Outband	152,09	163,73	23,872	13,180	29,850
Inbound	112,49	111,34	39,279	52,092	56,881

Package

	2018	2019	2020	2021	2022
Outbound	15,401	13,784	32,431	132,35	64,760
Inbound	204,70	219,227	145,88	463,93	362,01

Shipment

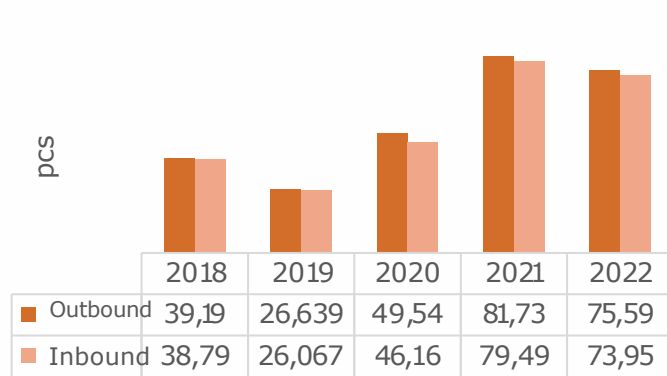|	2018	2019	2020	2021	2022
Outbound	11,287	10,973	7,989	18,954	11,022
Inbound	123,87	143,330	190,52	148,81	74,837
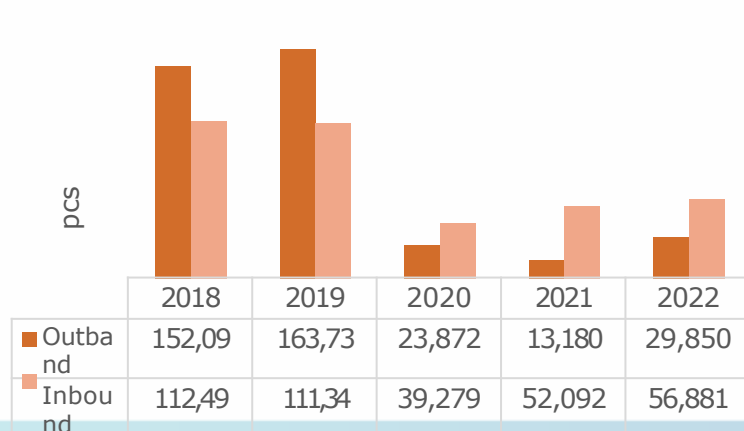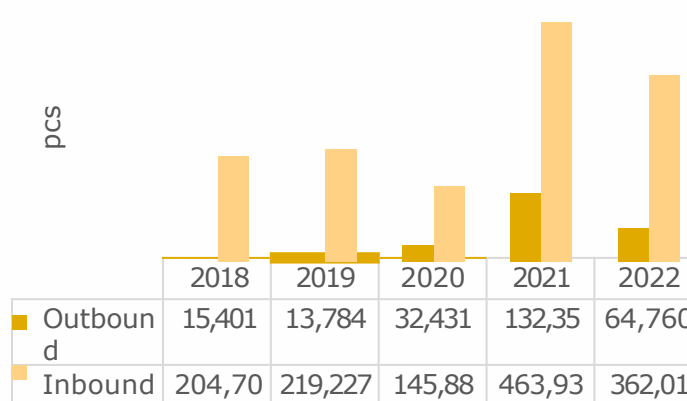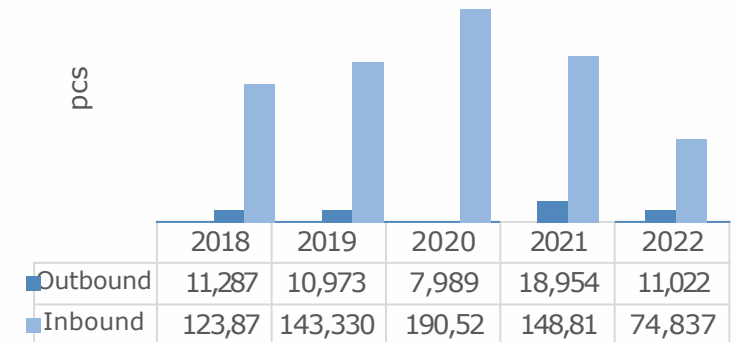
8. Postal service

Domestic **EXPRESS** postal exchange (pcs)

Letters

	2018	2019	2020	2021	2022
Outbound	39,19	26,639	49,54	81,73	75,59
Inbound	38,79	26,067	46,16	79,49	73,95

Package

	2018	2019	2020	2021	2022
Outbound	2,709	1,574	1,145	119,8	16,49
Inbound	2,690	1,549	852	119,3	16,21

Shipment

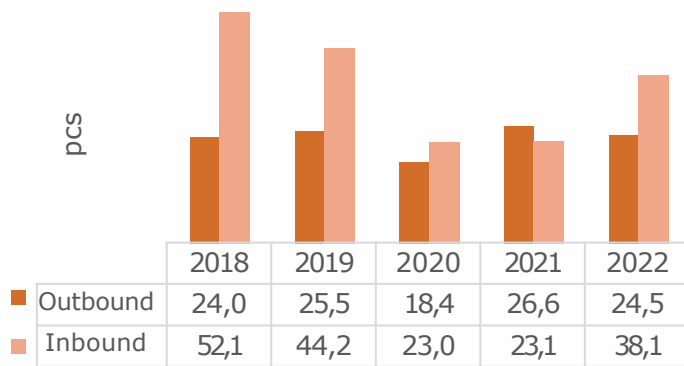|	2018	2019	2020	2021	2022
Outbound	4,938	2,642	3,084	4,644	4,173
Inbound	4,878	2,601	3,061	4,579	3,617
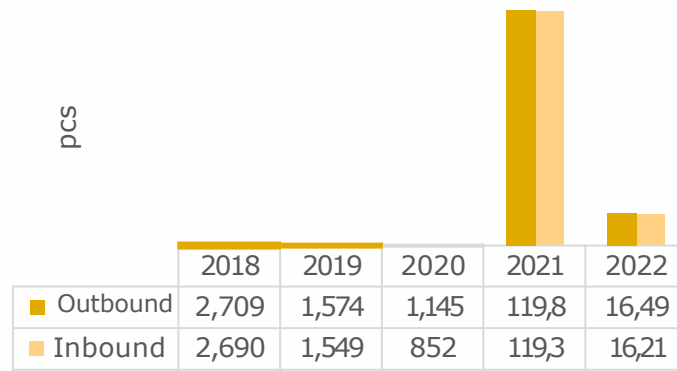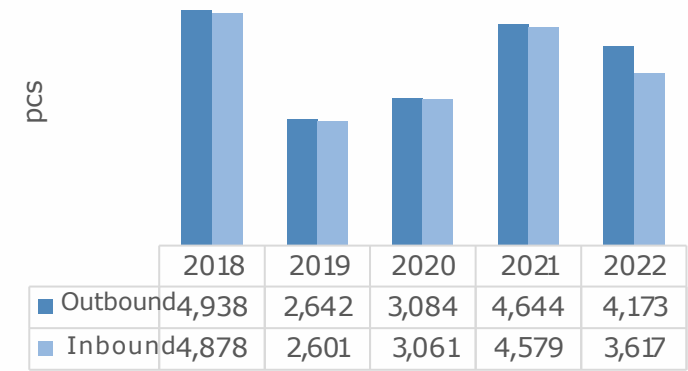
International **EXPRESS** postal exchange (pcs)

Letters

	2018	2019	2020	2021	2022
Outbound	24,0	25,5	18,4	26,6	24,5
Inbound	52,1	44,2	23,0	23,1	38,1

Package

	2018	2019	2020	2021	2022
Outbound	6,033	6,695	9,037	12,38	10,19
Inbound	38,75	45,47	35,01	62,76	65,27

Shipment

	2018	2019	2020	2021	2022
Outbound	2,424	1,145	1,308	1,011	920
Inbound	8,086	5,894	907	1,528	5,198
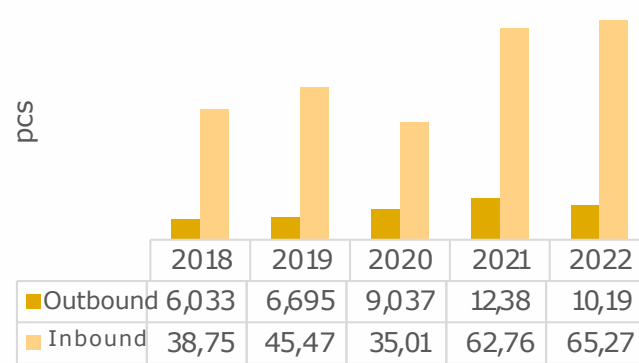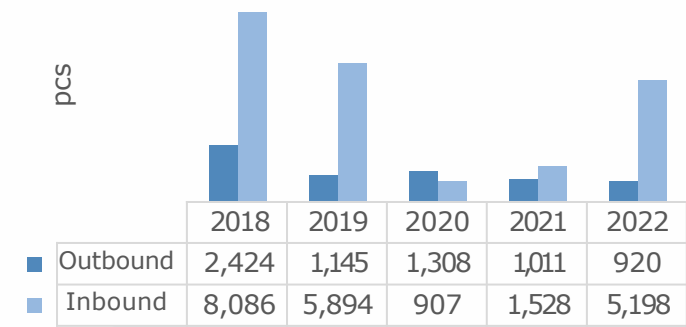
9. ECONOMIC INDICATORS
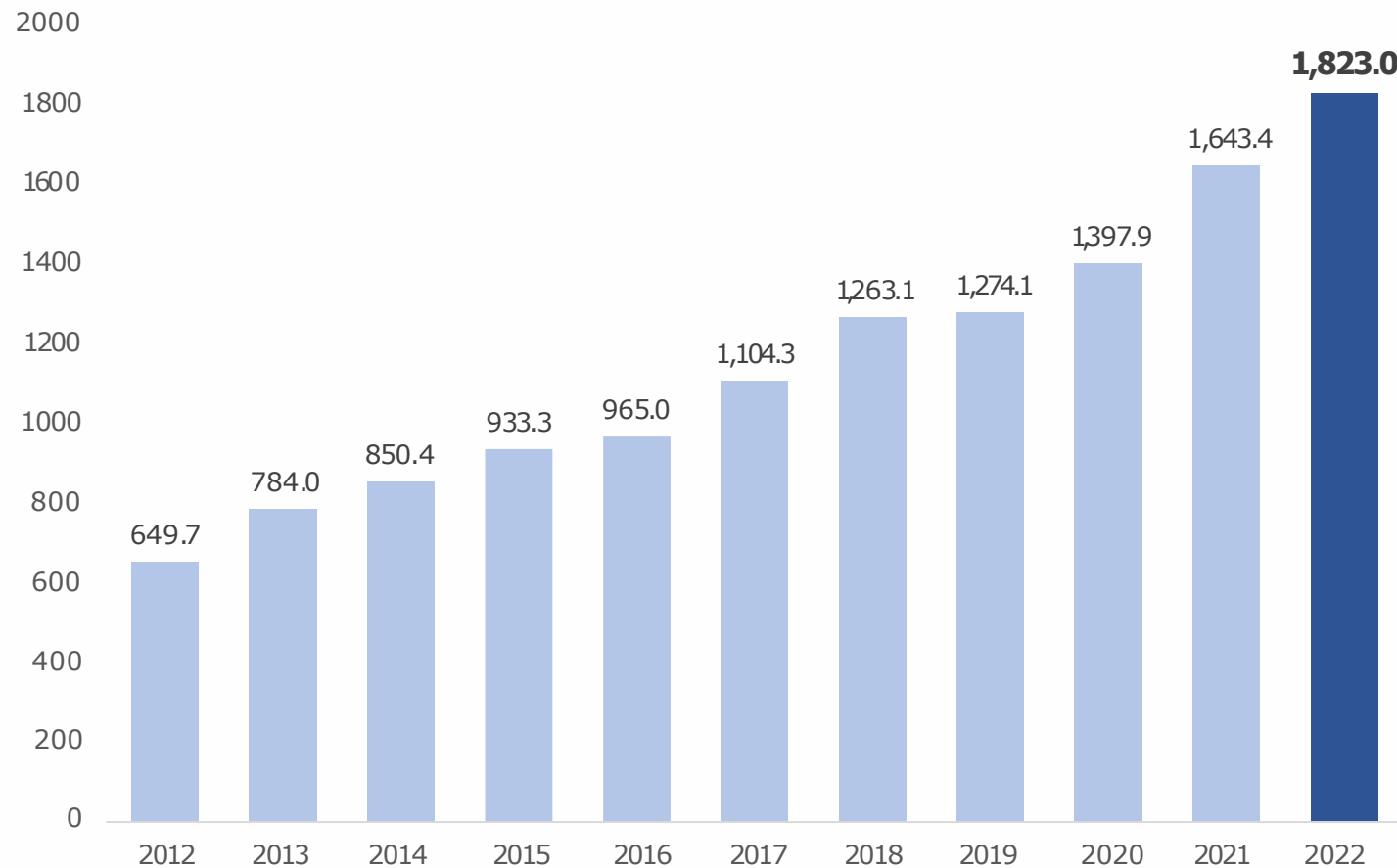
REVENUE in bln MNT

Information communication **83.0%**	Cellular connection	57.00%
	Internet services	7.90%
	Information communication network	6.55%
	Internet wholesale services	4.58%
	Cable line, tower installation	4.50%
	Landline telephone	1.61%
	Content Services	0.45%
	Space communication	0.29%
	Phone call - international	0.10%
Broadcasting **15.46%**	Multi-channel transmission service	11.03%
	Broadcast TV	3.03%
	Commercial TV	1.22%
	Commercial radio	0.18%
Postal service **2.6%**	Postal network and services	2.64%

Tentatively

9. ECONOMIC INDICATORS

INVESTMENT
in bln MNT

Chart values (by year):
- 2012: 108.0
- 2013: 122.2
- 2014: 239.2
- 2015: 204.6
- 2016: 233.2
- 2017: 196.0
- 2018: 179.3
- 2019: 323.3
- 2020: 244.2
- 2021: 278.5
- 2022: 351.4

Category	Subcategory	%
Information communication **86.9%**	Cellular connection	69.32%
	Information communication network	12.17%
	Internet services	2.43%
	Cable line, tower installation	1.26%
	Internet wholesale services	1.73%
	Content Services	0.00%
	Landline telephone	0.00%
Broadcasting **11.0%**	Multi-channel transmission service	7.37%
	Broadcast TV	2.12%
	Commercial TV	1.32%
	Commercial radio	0.17%
Postal service **1.9%**	Postal network and services	1.90%

14

9. ECONOMIC INDICATORS
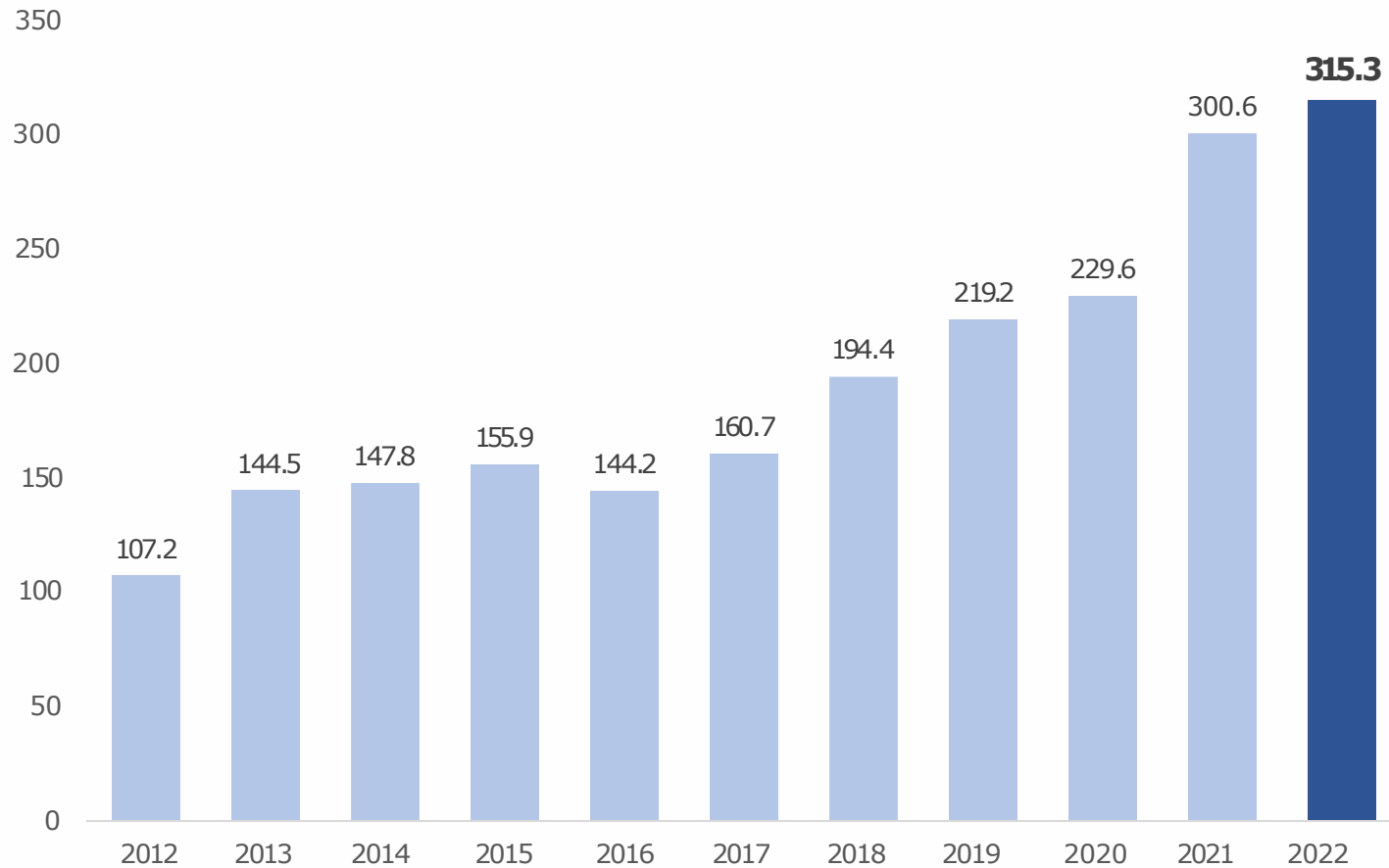
BUDGETED INCOME
In bln MNT

Chart data (in bln MNT):

Year	Value
2012	107.2
2013	144.5
2014	147.8
2015	155.9
2016	144.2
2017	160.7
2018	194.4
2019	219.2
2020	229.6
2021	300.6
2022	315.3

Category	Item	%
Information communication **80.0%**	Cellular connection	62.31%
	Information communication network	8.73%
	Internet services	3.59%
	Cable line, tower installation	1.80%
	Internet wholesale services	1.37%
	Content Services	1.05%
	Landline telephone	0.77%
	Space communication	0.28%
	Phone call - international	0.06%
Broadcasting **17.5%**	Multi-channel transmission service	13.33%
	Broadcast TV	2.74%
	Commercial TV	1.27%
	Commercial radio	0.12%
Postal service **2.6%**	Postal network and services	2.59%

Training on International Trade in Services and Digital Economy

Statistics for Mongolia: availability and methodology, systems, tools and procedures in place, main difficulties faced, current projects, and technical support required

- Defining "e-commerce" and digital economy for Mongolia

    - What will be our participation and how will we measure it?

    - For example: EUROSTAT eCommerce Indicators

- Clarifying the rights and obligations of the parties involved in international agreements, conventions and domestic law, and creating a legal environment

- A study to identify regulatory interventions to increase business opportunities, 2022

    - Internet Infrastructure and Access, Postal Regulation, Interconnection, Information Security, Payment Systems, E-Learning

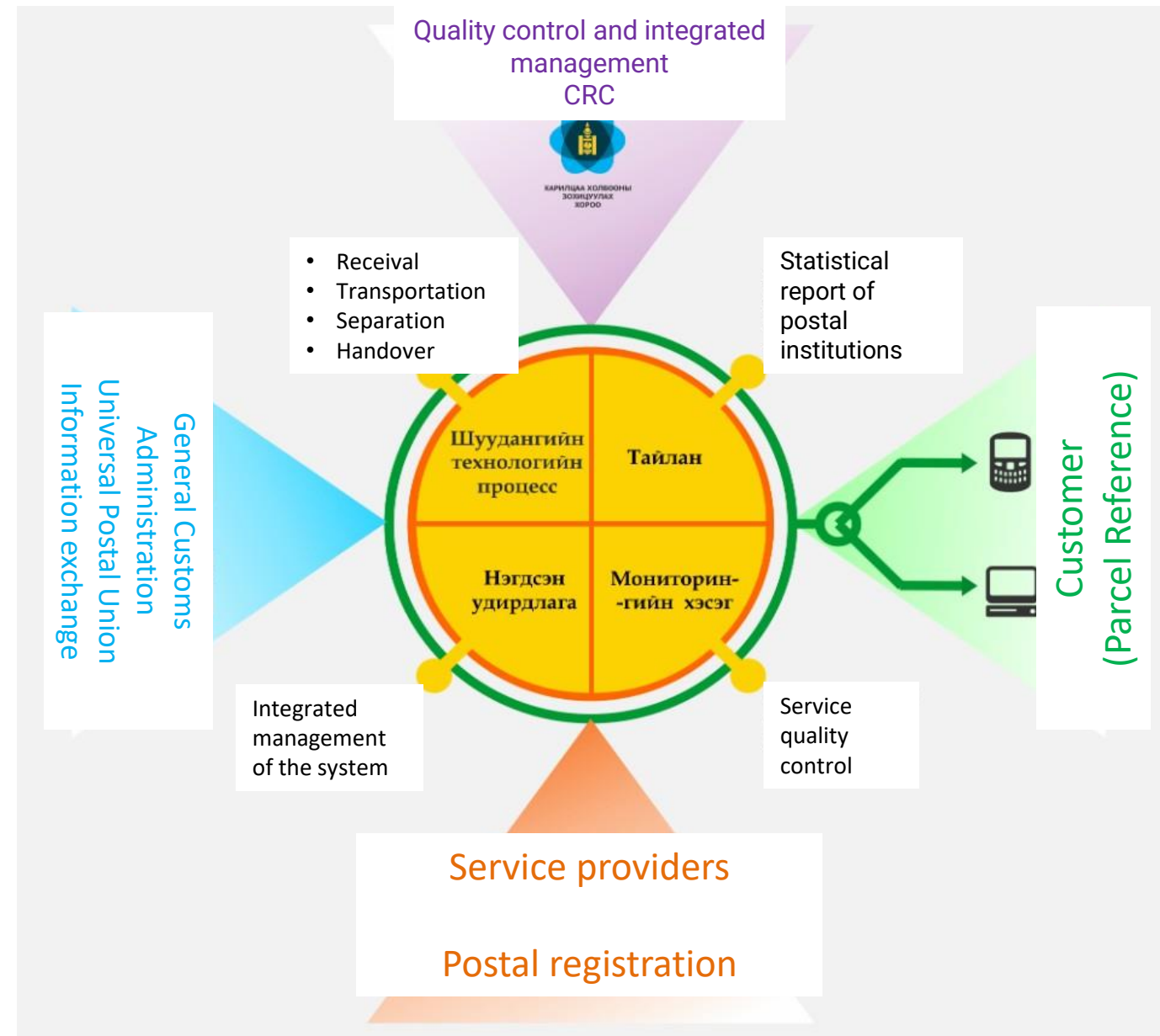- Provide research, recommendations, and manuals – Registration using international methods, etc

Introduction to the UPost system
Purpose of the system

The purpose of the integrated Upost postal registration, control and inquiry system is to improve the quality of postal services by registering postal parcels sent within and between countries and exchanging information with customs authorities. In addition, it will be possible for citizens and enterprises to get information about the location of postal parcels and information about service providers from a single point.
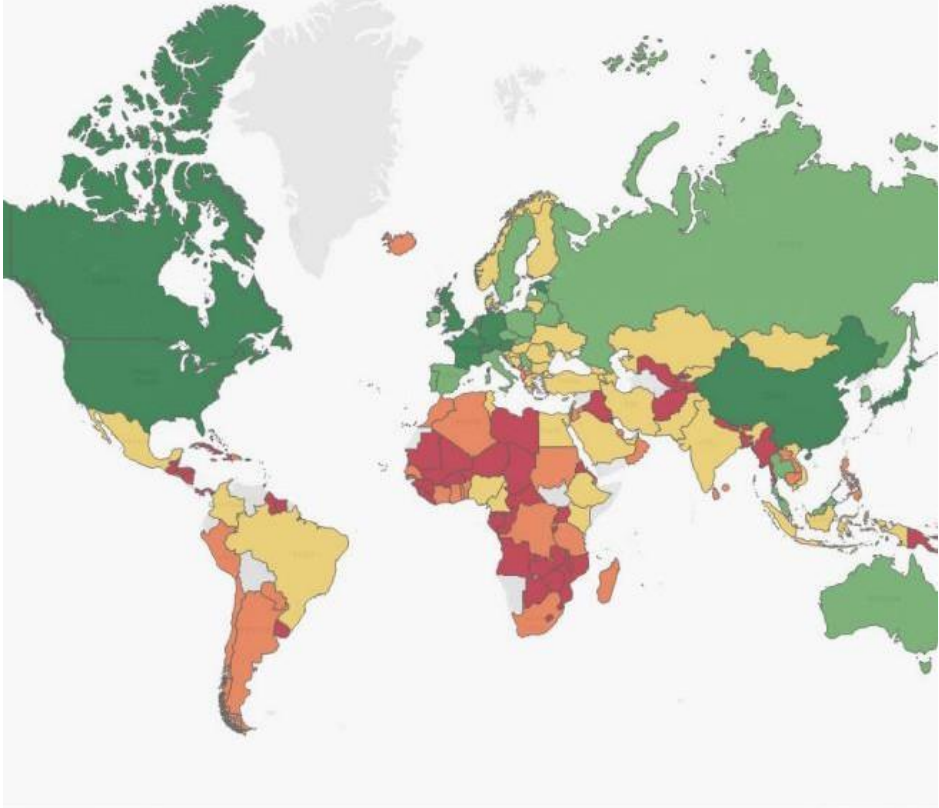
Advantages:

• Control

• Quality and competition

. Information and transparency

Quality control and integrated management
CRC

Statistical report of postal institutions

• Receival
• Transportation
• Separation
• Handover

General Customs Administration
Universal Postal Union
Information exchange

Шуудангийн технологийн процесс

Тайлан

Нэгдсэн удирдлага

Мониторин- -гийн хэсэг

Customer
(Parcel Reference)

Integrated management of the system

Service quality control

Service providers

Postal registration

E-commerce in Mongolia:

Global 2IPD score distribution

2021 2IPD MAP
© 2022 Mapbox ©OpenStreetMap

2IPD score (2021)
0 — 100

E-COMMERCE
IN CAREC COUNTRIES
INFRASTRUCTURE DEVELOPMENT

MARCH 2022

CAREC   ADB