DTM
MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs April 20th, 2020)

SITREP # 53
21-Apr-2020
12:00 (GMT+8)

The Mongolian Government has taken early and very active measures to prevent and stop an eventual spread of the COVID-19. Besides closing all the educational institutions starting with January 27th and imposing international travel restrictions that are expanding along with the growing number of countries affected by COVID-19 globally, on 13 February 2020 the government also declared state of high alert. To prevent a possible spread of COVID during the Mongolian Lunar New Year (February 24-26, 2020), the Emergency Commission restricted all travel between aimags (provinces), as well as incoming and outgoing flows in the capital city. Ulaanbaatar is by far the biggest urban settlement in Mongolia concentrating almost half of the country's population. It is a major destination, transition point and origin for population movements and as such may represent a powerful source for spreading COVID-19 to the entire country. To increase its preparedness and also an eventual response to COVID-19, the Governor's Office of the Capital City has requested the assistance of International Organization for Migration, Mission to Mongolia (IOM) to take evidence of all the incoming and outgoing flows of people by implementing its Displacement Tracking Matrix (DTM) methodology. Based on a joint agreement to implement DTM between IOM and the Governor's Office of the Capital City, a total of over 400 health and education system personnel have been trained as data enumerators and technical assistance was provided to set up the overall data collection and analysis framework. The pilot phase of the DTM flow monitoring in Ulaanbaatar was started on February 27th, 08:00 hrs while the roads were still closed for general free movement. The active implementation phase commenced when roads were opened for free circulation at 06:00 hrs on March 3rd and is scheduled to last until May 1st, 2020. Enumerators placed at 6 major checkpoints around the city (*Emeelt, Baruunturuun, Gunt, Ulziit, Morin and Nalaikh*) are collecting non-personal data on type of vehicle, passengers' profile, place as well as length of stay at origin and destination on a 24/7 time-schedule. Although it is the first time it is used in a capital city, since 2004 DTM has been implemented in over 80 countries and over 40 million individuals have been tracked globally in 2018 alone. Most recently DTM was used to track population movements in regions affected by Ebola. In Mongolia National Emergency Management Agency (NEMA) and IOM used DTM since 2018 to track the mobility of people in all administrative subdivision outside Ulaanbaatar improving preparedness for natural disasters, especially dzud.

NUMBERS AT A GLANCE

2,037,220
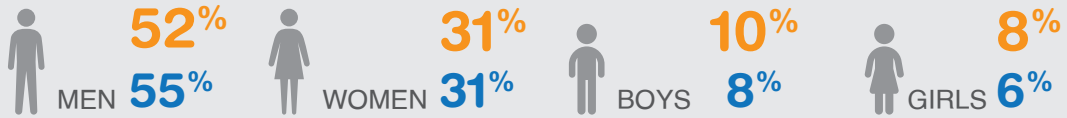cumulative movements tracked by DTM flow monitoring points (FMP)

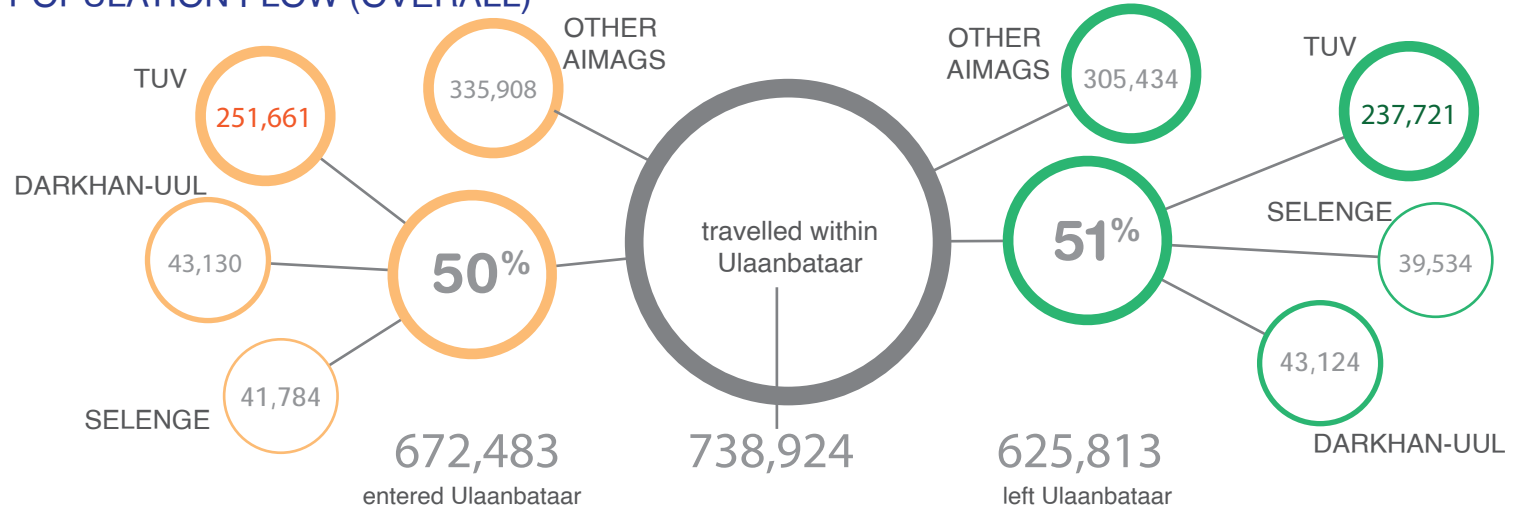**41,682** ▼
Movements tracked in the past 24 hrs

10,196 (R)
43,649 (N)
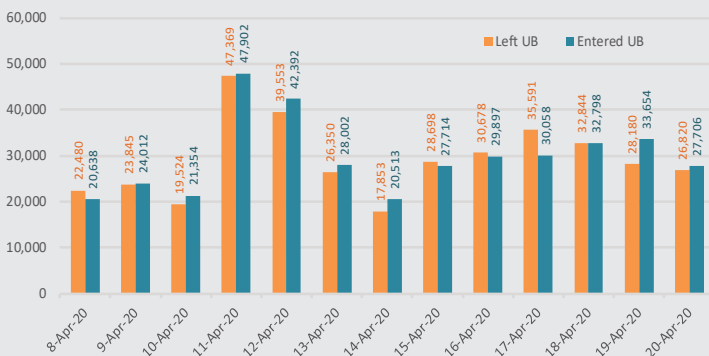Average movement per day during restricted (R) and unrestricted (N) periods

DEMOGRAPHICS

XX% - Overall
XX% - Past 24 hrs

MEN **52%** / **55%**

WOMEN **31%** / **31%**

BOYS **10%** / **8%**

GIRLS **8%** / **6%**

POPULATION FLOW (OVERALL)

TUV **251,661**
OTHER AIMAGS 335,908
DARKHAN-UUL 43,130
SELENGE 41,784

50%

travelled within Ulaanbataar

51%

OTHER AIMAGS 305,434
TUV **237,721**
SELENGE 39,534
DARKHAN-UUL 43,124

672,483 entered Ulaanbataar

738,924

625,813 left Ulaanbataar

MOVEMENT TRENDS

Legend: Left UB (orange), Entered UB (blue)

Date	Left UB	Entered UB
8-Apr-20	22,480	20,638
9-Apr-20	23,845	24,012
10-Apr-20	19,524	21,354
11-Apr-20	47,369	47,902
12-Apr-20	39,553	42,392
13-Apr-20	26,350	28,002
14-Apr-20	17,853	20,513
15-Apr-20	28,698	27,714
16-Apr-20	30,678	29,897
17-Apr-20	35,591	30,058
18-Apr-20	32,844	32,798
19-Apr-20	28,180	33,654
20-Apr-20	26,820	27,706

MOVEMENT THROUGH CHECKPOINTS

Checkpoint	OVERALL			20-Apr-20		
	TOTAL	IN	OUT	TOTAL	IN	OUT
Baruunturuun	385,962	183,219	202,743	5,229	2,388	2,841
Ulziit	306,335	159,780	146,555	6,928	3,631	3,297
Nalaikh	607,539	304,909	302,630	12,132	6,294	5,838
Morin	447,221	223,795	223,426	10,777	5,381	5,396
Emeelt	681,034	365,720	315,314	12,473	6,559	5,914
Gunt	346,993	173,538	173,455	6,987	3,453	3,534
Total	2,775,084	1,410,961	1,364,123	54,526	27,706	26,820

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MOVEMENT IN TO ULAANBATAAR
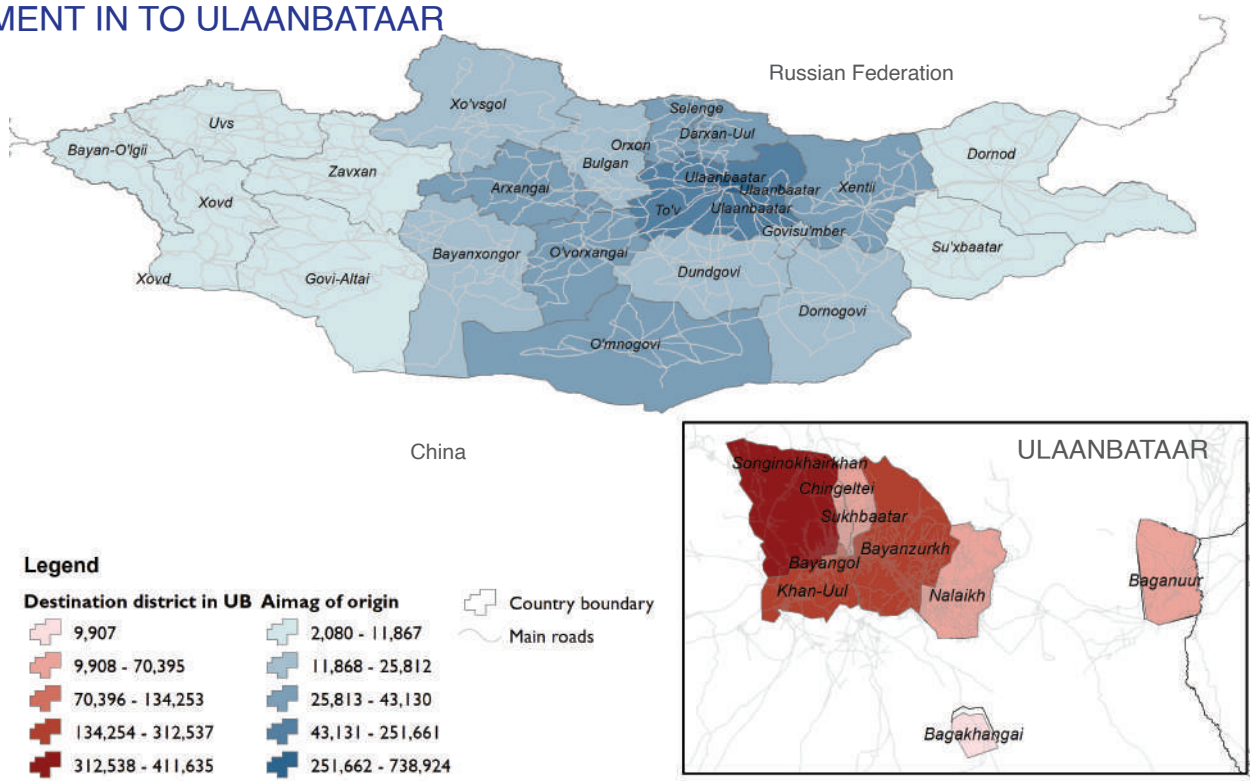
Russian Federation

China

ULAANBATAAR

Legend

Destination district in UB
- 9,907
- 9,908 - 70,395
- 70,396 - 134,253
- 134,254 - 312,537
- 312,538 - 411,635

Aimag of origin
- 2,080 - 11,867
- 11,868 - 25,812
- 25,813 - 43,130
- 43,131 - 251,661
- 251,662 - 738,924

Country boundary
Main roads

The boundaries and names shown and the designation used on this map do not imply official endorsement or acceptance
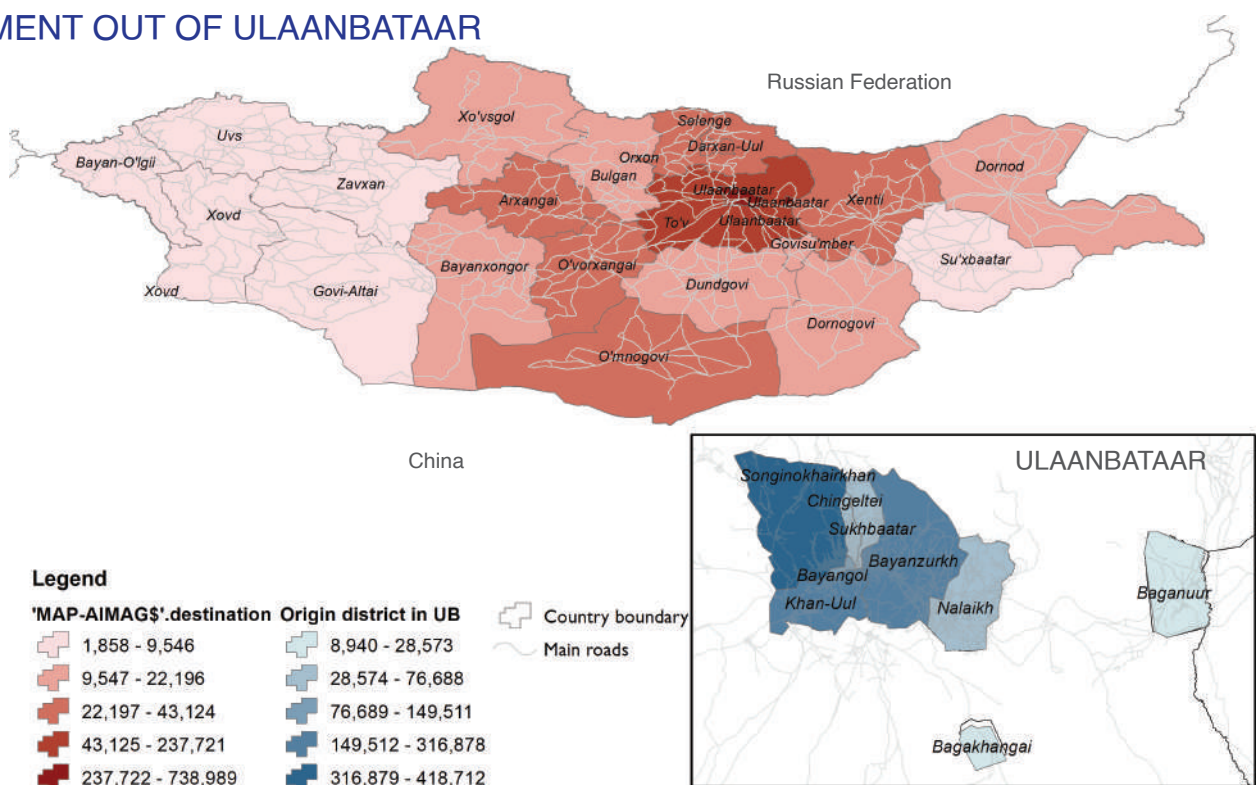
DEMOGRAPHICS
XX% - Overall
XX% - Past 24 hrs

	Overall	Past 24 hrs
MEN	52%	56%
WOMEN	32%	32%
BOYS	9%	7%
GIRLS	8%	5%

of / destination	?	Bagakhangai	Baganuur	Bayangol	Bayanzurkh	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Ulaanbaatar	3,379	8,275	26,488	45,359	93,921	32,303	218,178	54,141	226,454	30,426	738,924
Arkhangai	160	12	55	5,808	7,328	2,377	3,657	156	11,427	2,038	33,018
Bayankhongor	87	13	51	2,330	3,409	1,091	1,716	150	6,253	1,132	16,232
Bayan-Ulgii	17	-	1	264	489	85	112	23	898	191	2,080
Bulgan	183	22	46	4,725	6,193	1,866	3,240	107	7,867	1,563	25,812
Darkhan-Uul	246	40	115	6,746	8,314	2,273	4,766	327	17,624	2,679	43,130
Dornod	97	27	15	1,280	5,768	814	1,371	70	1,361	1,064	11,867
Dornogobi	288	35	63	3,397	7,834	1,004	2,489	220	2,584	1,501	19,415
Dundgobi	123	19	44	3,209	7,611	1,188	3,931	73	3,974	1,664	21,836
Gobi-Altai	41	11	36	906	1,648	425	688	29	2,990	439	7,213
Gobisumber	216	9	82	2,166	7,453	668	1,505	170	1,472	1,096	14,837
Khentii	160	23	27	2,797	16,696	1,552	2,722	255	2,750	2,320	29,302
Khovd	10	-	12	778	1,413	313	787	43	3,165	254	6,775
Khuvsgul	93	35	85	3,028	4,047	1,142	2,026	88	6,090	1,259	17,893
Orkhon	139	4	108	5,846	6,656	1,466	4,277	185	9,016	2,059	29,756
Selenge	156	34	161	9,484	9,598	2,873	5,056	358	11,002	3,062	41,784
Sukhbaatar	62	32	26	933	5,605	509	792	86	888	778	9,711
Tuv	1,465	201	791	38,436	54,179	17,359	44,420	4,891	71,415	18,504	251,661
Umnugobi	137	7	78	3,999	7,295	1,343	7,369	145	6,640	1,865	28,878
Uvurkhangai	174	57	111	5,834	8,133	2,253	4,981	213	14,665	2,142	38,563
Zavkhan	70	14	23	1,889	3,142	666	1,334	71	3,696	897	11,802
Uvs	29	5	21	905	1,813	426	797	90	3,194	416	7,696
?	69	12	40	440	879	125	499	217	680	261	3,222
TOTAL	7,401	8,887	28,479	150,559	269,424	74,121	316,713	62,108	416,105	77,610	1,411,407

International Organization for Migration (IOM)
The UN Migration Agency

НИЙСЛЭЛИЙН ЗАСАГ ДАРГЫН ТАМГЫН ГАЗАР

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development and Cooperation SDC
Швейцарын хөгжлийн агентлаг

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MOVEMENT OUT OF ULAANBATAAR

Russian Federation

China

ULAANBATAAR

Legend

'MAP-AIMAG$'.destination
- 1,858 - 9,546
- 9,547 - 22,196
- 22,197 - 43,124
- 43,125 - 237,721
- 237,722 - 738,989

Origin district in UB
- 8,940 - 28,573
- 28,574 - 76,688
- 76,689 - 149,511
- 149,512 - 316,878
- 316,879 - 418,712

- Country boundary
- Main roads

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DEMOGRAPHICS
XX% - Overall
XX%- Past 24 hrs

	MEN	WOMEN	BOYS	GIRLS
Overall	51%	30%	10%	8%
Past 24 hrs	55%	30%	9%	7%

Aimag of destination \ UB District of origin	?	Bagakhangai	Bayanzurkh	Baganuur	Bayangol	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Arkhangai	336	42	5,867	53	4,268	1,974	2,857	163	10,372	1,701	27,633
Bayankhongor	91	21	2,462	79	1,931	875	1,470	89	5,872	844	13,734
Bayan-Ulgii	-	-	465	-	326	86	129	12	714	126	1,858
Bulgan	226	1	4,920	47	3,703	1,642	2,669	51	7,585	1,352	22,196
Darkhan-Uul	133	13	7,050	119	5,821	2,149	4,235	247	20,953	2,404	43,124
Dornod	77	8	6,453	12	1,202	747	1,340	129	1,216	893	12,077
Dornogobi	136	13	8,735	128	3,607	1,276	2,712	167	2,718	1,422	20,914
Dundgobi	93	17	7,325	76	2,721	1,175	3,853	113	4,283	1,692	21,348
Gobi-Altai	31	9	1,144	34	539	283	584	63	2,984	296	5,967
Gobisumber	84	6	7,241	68	1,913	711	1,341	148	1,404	845	13,761
Khentii	141	23	16,210	32	2,638	1,385	2,193	212	2,320	1,968	27,122
Khovd	24	-	1,123	10	619	215	588	54	2,649	267	5,549
Khuvsgul	80	10	2,941	23	1,886	875	1,643	63	6,047	849	14,417
Orkhon	136	11	5,551	104	5,226	1,547	3,757	173	10,272	1,615	28,392
Selenge	86	19	8,345	167	8,686	2,566	4,616	422	11,983	2,644	39,534
Sukhbaatar	66	11	5,707	16	669	465	805	63	903	841	9,546
Tuv	1,264	143	51,472	762	35,154	16,201	40,752	4,600	70,036	17,337	237,721
Umnugobi	89	20	8,280	133	4,282	1,780	7,478	186	7,197	2,422	31,867
Uvs	27	7	1,036	25	557	317	517	39	2,225	298	5,048
Uvurkhangai	221	49	5,988	93	4,609	1,624	3,957	112	13,079	1,781	31,513
Zavkhan	70	15	2,004	20	1,258	470	994	97	3,623	518	9,069
?	166	13	829	67	351	181	374	331	905	206	3,423
TOTAL	3,577	451	161,148	2,068	91,966	38,544	88,864	7,534	189,340	42,321	625,813