DTM
MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs April 5th, 2020)

SITREP # 38
06-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 300 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

1,382,860
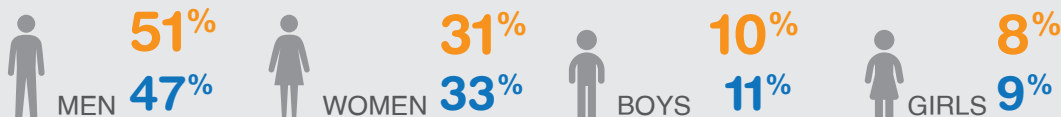cumulative movements tracked by DTM flow monitoring points (FMP)

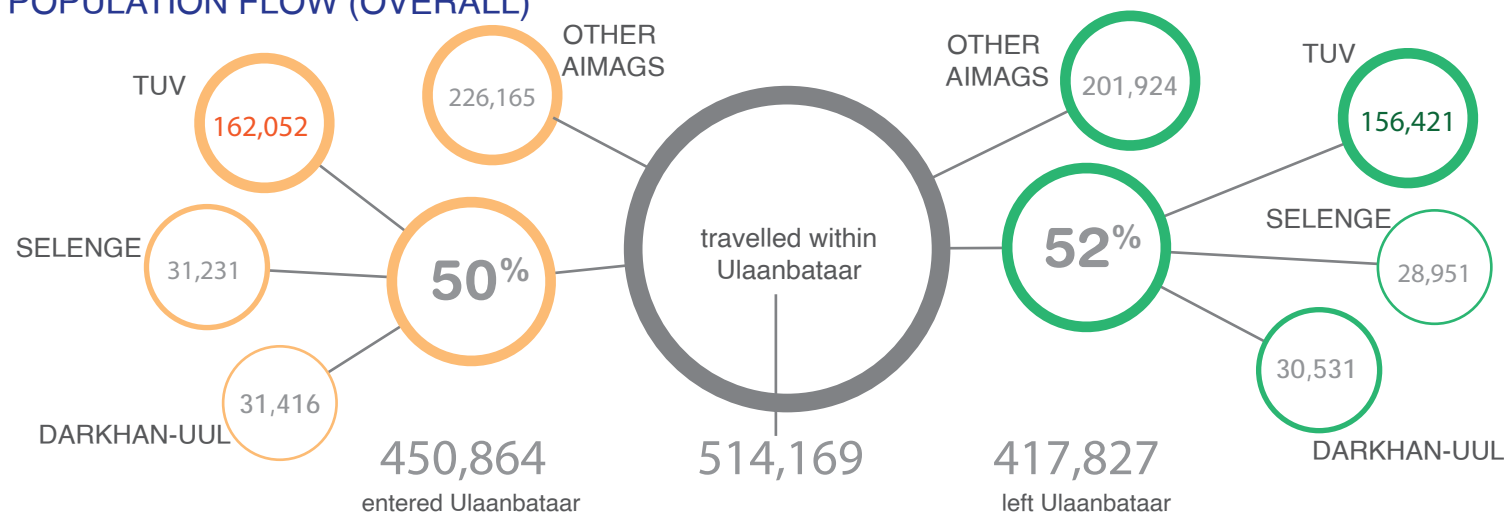**52,584** ↓
Movements tracked in the past 24 hrs

10,196 (R)
43,663 (N)
Average movement per day during restricted (R) and unrestricted (N) periods

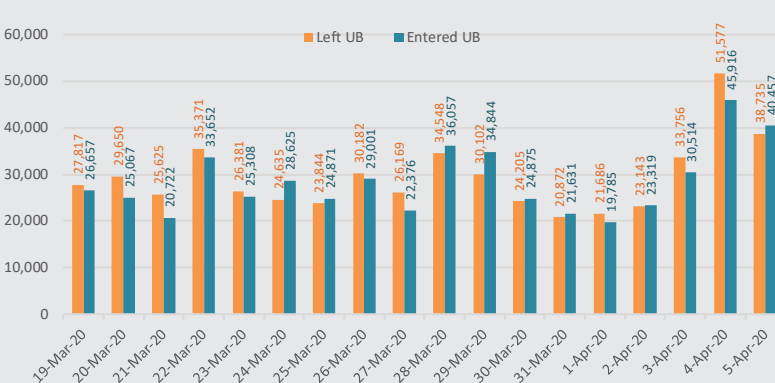## DEMOGRAPHICS
XX% - **Overall**
XX% - **Past 24 hrs**

	Overall	Past 24 hrs
MEN	51%	47%
WOMEN	31%	33%
BOYS	10%	11%
GIRLS	8%	9%

POPULATION FLOW (OVERALL)

TUV 162,052
OTHER AIMAGS 226,165
SELENGE 31,231
DARKHAN-UUL 31,416
50%

travelled within Ulaanbataar
514,169

OTHER AIMAGS 201,924
TUV 156,421
SELENGE 28,951
DARKHAN-UUL 30,531
52%

450,864 entered Ulaanbataar

417,827 left Ulaanbataar

MOVEMENT TRENDS

Left UB / Entered UB

Date	Left UB	Entered UB
19-Mar-20	27,817	26,657
20-Mar-20	29,650	25,067
21-Mar-20	25,625	20,722
22-Mar-20	35,371	33,652
23-Mar-20	26,381	25,308
24-Mar-20	24,635	28,625
25-Mar-20	23,844	24,871
26-Mar-20	30,182	29,001
27-Mar-20	26,169	22,376
28-Mar-20	34,548	36,057
29-Mar-20	30,102	34,844
30-Mar-20	24,205	24,875
31-Mar-20	20,872	21,631
1-Apr-20	21,686	19,785
2-Apr-20	23,143	23,319
3-Apr-20	33,756	30,514
4-Apr-20	51,577	45,916
5-Apr-20	38,735	40,457

MOVEMENT THROUGH CHECKPOINTS

Checkpoint	OVERALL			5-Apr-20		
	TOTAL	IN	OUT	TOTAL	IN	OUT
Emeelt	309,372	148,857	160,515	3,351	1,853	1,498
Baruunturuun	203,480	102,876	100,604	4,743	2,693	2,050
Nalaikh	421,507	211,242	210,265	24,728	11,701	13,027
Morin	298,346	149,356	148,990	17,875	8,956	8,919
Ulziit	464,801	252,684	212,117	12,550	7,176	5,374
Gunt	199,270	99,951	99,319	15,945	8,078	7,867
Total	1,896,776	964,966	931,810	79,192	40,457	38,735

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MOVEMENT IN TO ULAANBATAAR

Russian Federation

Bayan-O'lgii
Uvs
Xovd
Zavxan
Xo'vsgol
Arxangai
Bulgan
Orxon
Selenge
Darxan-Uul
Ulaanbaatar
To'v
Ulaanbaatar
Ulaanbaatar
Xentii
Dornod
Bayanxongor
O'vorxangai
Dundgovi
Govisu'mber
Su'xbaatar
Govi-Altai
O'mnogovi
Dornogovi

China

ULAANBATAAR

Songinokhairkhan
Chingeltei
Sukhbaatar
Bayangol
Bayanzurkh
Khan-Uul
Nalaikh
Baganuur
Bagakhangai

Legend

Destination district in UB
- 5,461 - 21,611
- 21,612 - 45,410
- 45,411 - 88,077
- 88,078 - 201,641
- 201,642 - 262,208

Aimag of origin
- 1,190 - 9,298
- 9,299 - 21,371
- 21,372 - 31,416
- 31,417 - 162,052
- 162,053 - 514,169

- Country boundary
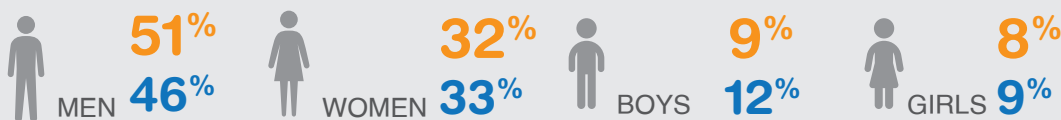- Main roads

The boundaries and names shown and the designation used on this map do not imply official endorsement or acceptance

DEMOGRAPHICS
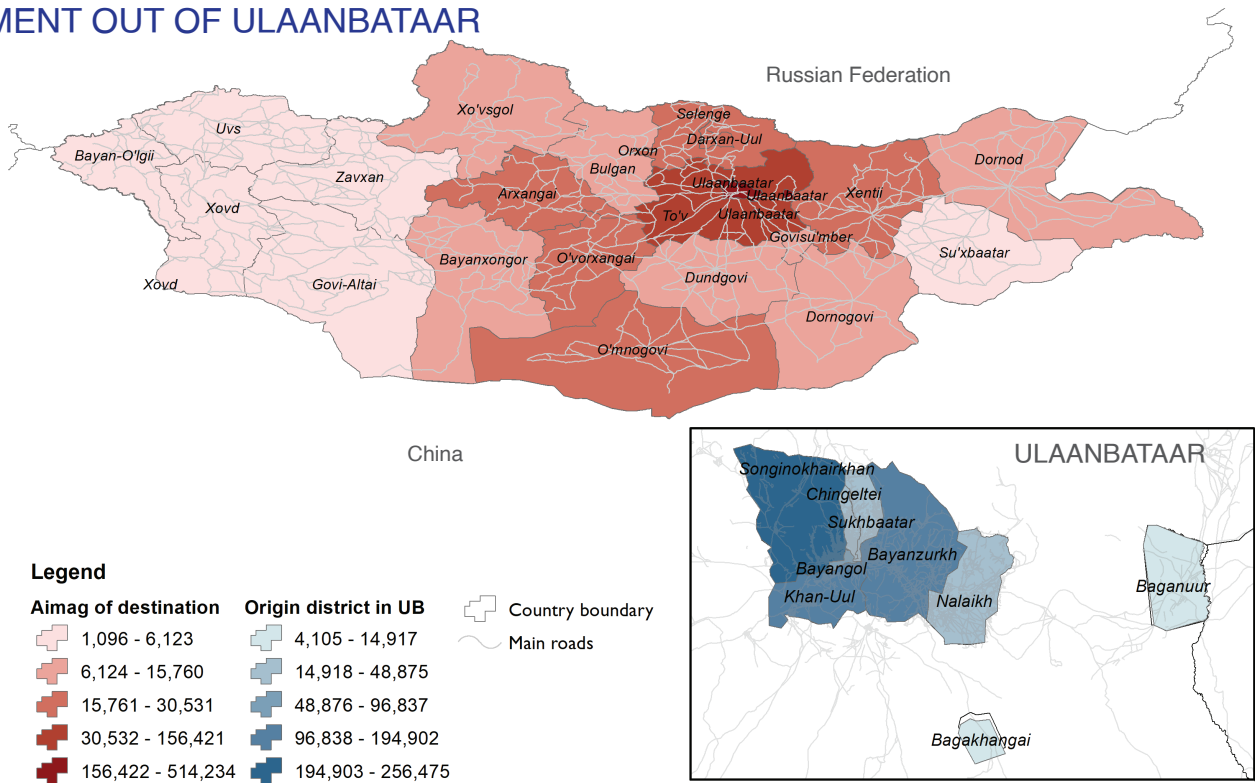XX% - **Overall**
XX% - **Past 24 hrs**

MEN 51% 46%

WOMEN 32% 33%

BOYS 9% 12%

GIRLS 8% 9%

of destination	?	Bagakhangai	Baganuur	Bayangol	Bayanzurkh	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Ulaanbaatar	1,707	4,391	15,336	31,682	70,578	21,318	148,060	43,155	156,140	21,802	514,169
Arkhangai	105	12	49	4,174	5,310	1,696	2,611	127	8,209	1,514	23,807
Bayankhongor	54	10	38	1,556	2,450	763	1,137	91	4,194	846	11,139
Bayan-Ulgii	6	-	-	156	289	47	58	10	504	120	1,190
Bulgan	134	18	35	3,280	4,414	1,319	2,342	68	5,417	1,118	18,145
Darkhan-Uul	184	33	97	5,060	6,112	1,679	3,538	272	12,437	2,004	31,416
Dornod	46	5	2	856	3,768	566	850	32	962	693	7,780
Dornogobi	47	14	21	2,103	4,657	593	1,377	56	1,694	890	11,452
Dundgobi	58	3	17	2,180	4,849	793	2,637	17	2,685	1,084	14,323
Gobi-Altai	23	11	31	652	1,136	310	439	19	1,871	332	4,824
Gobisumber	28	5	25	1,467	4,702	444	924	48	933	722	9,298
Khentii	54	6	20	1,873	10,474	1,138	1,705	44	1,856	1,410	18,580
Khovd	5	-	12	547	1,013	252	571	40	1,841	143	4,424
Khuvsgul	55	25	71	2,290	2,988	761	1,500	62	4,185	824	12,761
Orkhon	88	4	70	4,031	4,860	1,099	3,086	169	6,413	1,551	21,371
Selenge	111	26	112	6,846	7,318	2,146	3,644	290	8,442	2,296	31,231
Sukhbaatar	42	5	15	602	3,530	289	478	43	558	450	6,012
Tuv	730	114	351	25,677	34,663	11,326	28,127	1,044	48,020	12,000	162,052
Umnugobi	88	5	34	2,583	4,619	897	4,510	65	4,500	1,064	18,365
Uvurkhangai	122	51	69	4,260	5,636	1,734	3,650	155	9,977	1,511	27,165
Zavkhan	42	10	12	1,324	2,226	494	963	45	2,518	630	8,264
Uvs	18	5	18	634	1,292	317	549	87	2,154	293	5,367
?	29	4	7	263	535	82	271	146	413	148	1,898
TOTAL	**3,776**	**4,757**	**16,442**	**104,096**	**187,419**	**50,063**	**213,027**	**46,085**	**285,923**	**53,445**	**965,033**

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MOVEMENT OUT OF ULAANBATAAR

Russian Federation

China

ULAANBATAAR

Legend

Aimag of destination
- 1,096 - 6,123
- 6,124 - 15,760
- 15,761 - 30,531
- 30,532 - 156,421
- 156,422 - 514,234

Origin district in UB
- 4,105 - 14,917
- 14,918 - 48,875
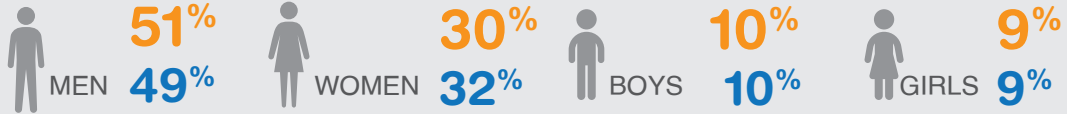- 48,876 - 96,837
- 96,838 - 194,902
- 194,903 - 256,475

- Country boundary
- Main roads

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DEMOGRAPHICS

XX% - Overall
XX% - Past 24 hrs

	MEN	WOMEN	BOYS	GIRLS
Overall	51%	30%	10%	9%
Past 24 hrs	49%	32%	10%	9%

UB District of origin / Aimag of destination	?	Bagakhangai	Bayanzurkh	Baganuur	Bayangol	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Arkhangai	290	4	3,926	36	2,916	1,342	1,994	122	7,018	1,171	18,819
Bayankhongor	85	3	1,420	68	1,172	550	960	58	3,797	563	8,676
Bayan-Ulgii	-	-	272	-	200	34	69	1	453	67	1,096
Bulgan	197	1	3,392	23	2,704	1,228	1,914	25	5,330	946	15,760
Darkhan-Uul	111	13	5,102	66	4,208	1,509	3,093	214	14,577	1,638	30,531
Dornod	44	8	4,193	2	731	566	855	18	803	560	7,780
Dornogobi	49	5	5,732	44	2,264	883	1,736	39	1,805	889	13,446
Dundgobi	59	17	4,797	42	1,878	875	2,594	40	2,910	1,132	14,344
Gobi-Altai	31	9	736	18	301	204	376	39	1,808	182	3,704
Gobisumber	25	-	4,450	13	1,138	519	820	39	946	577	8,527
Khentii	87	8	10,478	17	1,736	972	1,367	44	1,629	1,282	17,620
Khovd	11	-	738	7	384	128	366	38	1,571	164	3,407
Khuvsgul	58	3	1,887	16	1,182	486	1,107	52	3,986	519	9,296
Orkhon	113	9	3,823	85	3,540	1,110	2,652	129	7,196	1,200	19,857
Selenge	64	15	6,151	123	6,090	1,872	3,385	353	8,983	1,915	28,951
Sukhbaatar	28	6	3,576	2	451	322	516	17	638	567	6,123
Tuv	965	78	32,995	372	23,820	10,791	26,666	1,117	48,237	11,380	156,421
Umnugobi	56	15	5,717	79	2,988	1,248	5,089	105	5,403	1,729	22,429
Uvs	26	7	633	18	278	189	302	27	1,279	166	2,925
Uvurkhangai	208	21	3,994	53	3,107	1,106	2,650	60	8,527	1,207	20,933
Zavkhan	70	5	1,168	14	714	317	576	52	2,220	296	5,432
?	73	1	354	37	179	115	173	196	524	98	1,750
TOTAL	2,650	228	105,534	1,135	61,981	26,366	59,260	2,785	129,640	28,248	417,827