DTM
MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs March 10th, 2020)

SITREP # 13
11-Mar-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 March 24th, 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

405,457
cumulative movements tracked by DTM flow monitoring points (FMP)

13,105
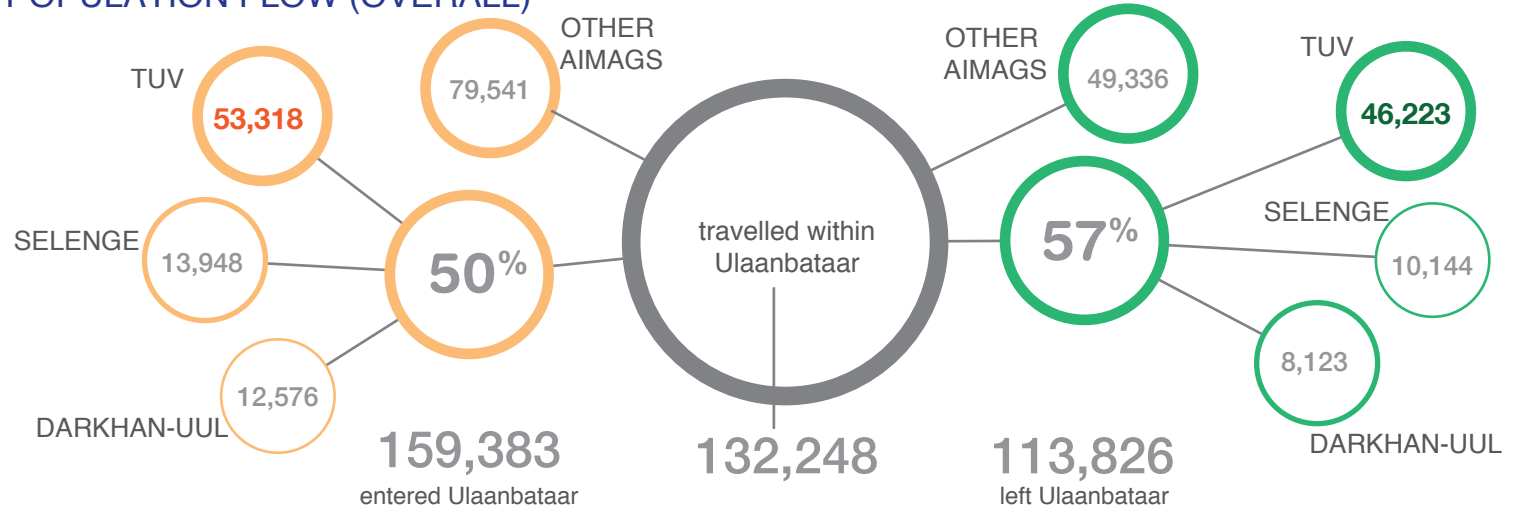Movements tracked in the past 24 hrs

316,745
Movements tracked from the day of lifting of movement restrictions

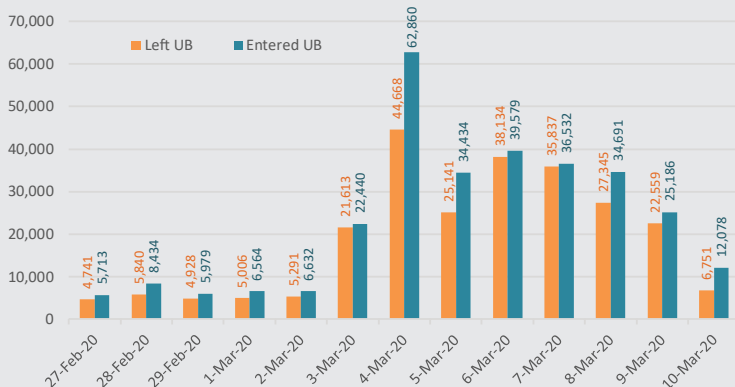## DEMOGRAPHICS

XX% - Overall
XX% - Past 24 hrs

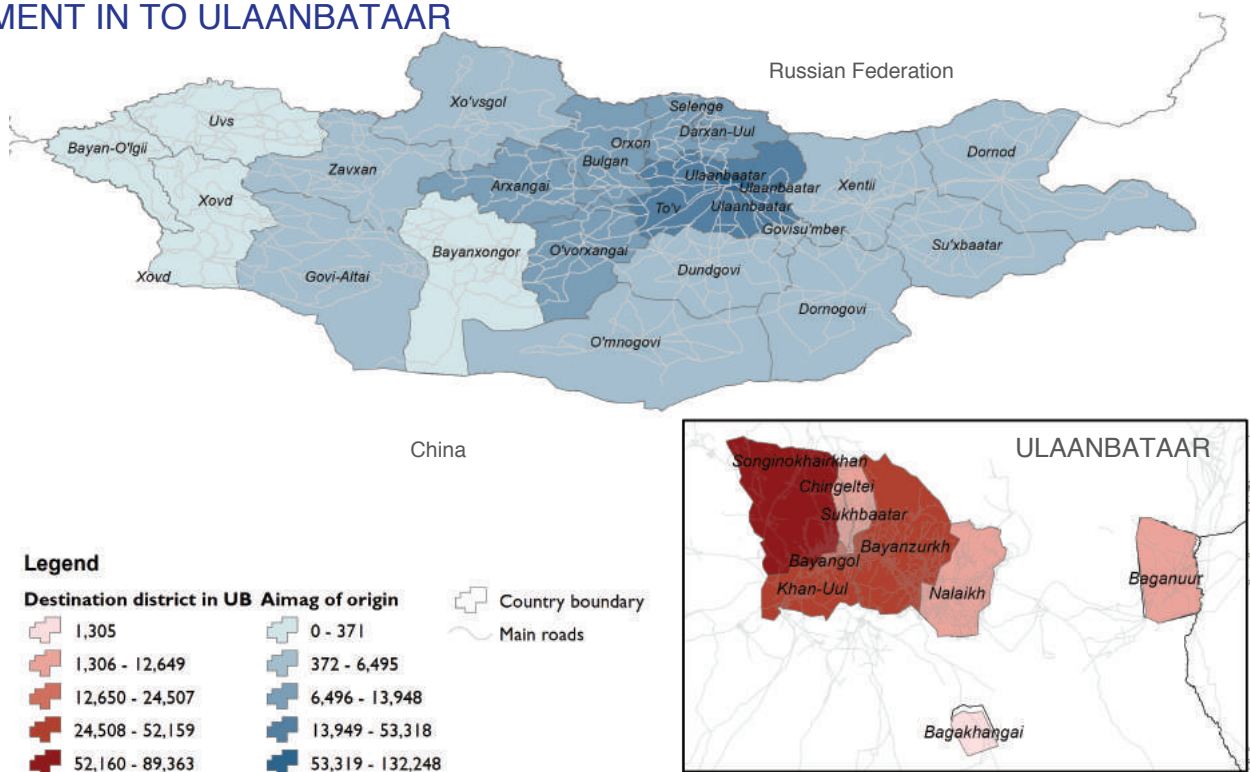|	MEN	WOMEN	BOYS	GIRLS
Overall	48%	31%	11%	10%
Past 24 hrs	55%	29%	8%	7%

POPULATION FLOW (OVERALL)

TUV 53,318
OTHER AIMAGS 79,541
SELENGE 13,948
DARKHAN-UUL 12,576
50%

travelled within Ulaanbataar

57%
OTHER AIMAGS 49,336
TUV 46,223
SELENGE 10,144
DARKHAN-UUL 8,123

159,383 entered Ulaanbataar
132,248
113,826 left Ulaanbataar

MOVEMENT TRENDS

Legend: Left UB, Entered UB

Date	Left UB	Entered UB
27-Feb-20	4,741	5,713
28-Feb-20	5,840	8,434
29-Feb-20	4,928	5,979
1-Mar-20	5,006	6,564
2-Mar-20	5,291	6,632
3-Mar-20	21,613	22,440
4-Mar-20	44,668	62,860
5-Mar-20	25,141	34,434
6-Mar-20	38,134	39,579
7-Mar-20	35,837	36,532
8-Mar-20	27,345	34,691
9-Mar-20	22,559	25,186
10-Mar-20	6,751	12,078

MOVEMENT THROUGH CHECKPOINTS

Checkpoint	OVERALL			10-Mar-20		
	TOTAL	IN	OUT	TOTAL	IN	OUT
Emeelt	158,200	101,713	56,487	5,484	4,053	1,431
Baruunturuun	119,248	60,128	59,120	2,411	1,675	736
Nalaikh	87,291	44,875	42,416	4,095	2,308	1,787
Morin	68,823	34,660	34,163	3,371	1,699	1,672
Gunt	57,895	29,412	28,483	2,424	1,745	679
Ulziit	57,519	30,334	27,185	1,044	598	446
Total	548,976	301,122	247,854	18,829	12,078	6,751

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MOVEMENT IN TO ULAANBATAAR

Russian Federation

China

ULAANBATAAR

Legend

Destination district in UB
- 1,305
- 1,306 - 12,649
- 12,650 - 24,507
- 24,508 - 52,159
- 52,160 - 89,363

Aimag of origin
- 0 - 371
- 372 - 6,495
- 6,496 - 13,948
- 13,949 - 53,318
- 53,319 - 132,248

Country boundary
Main roads

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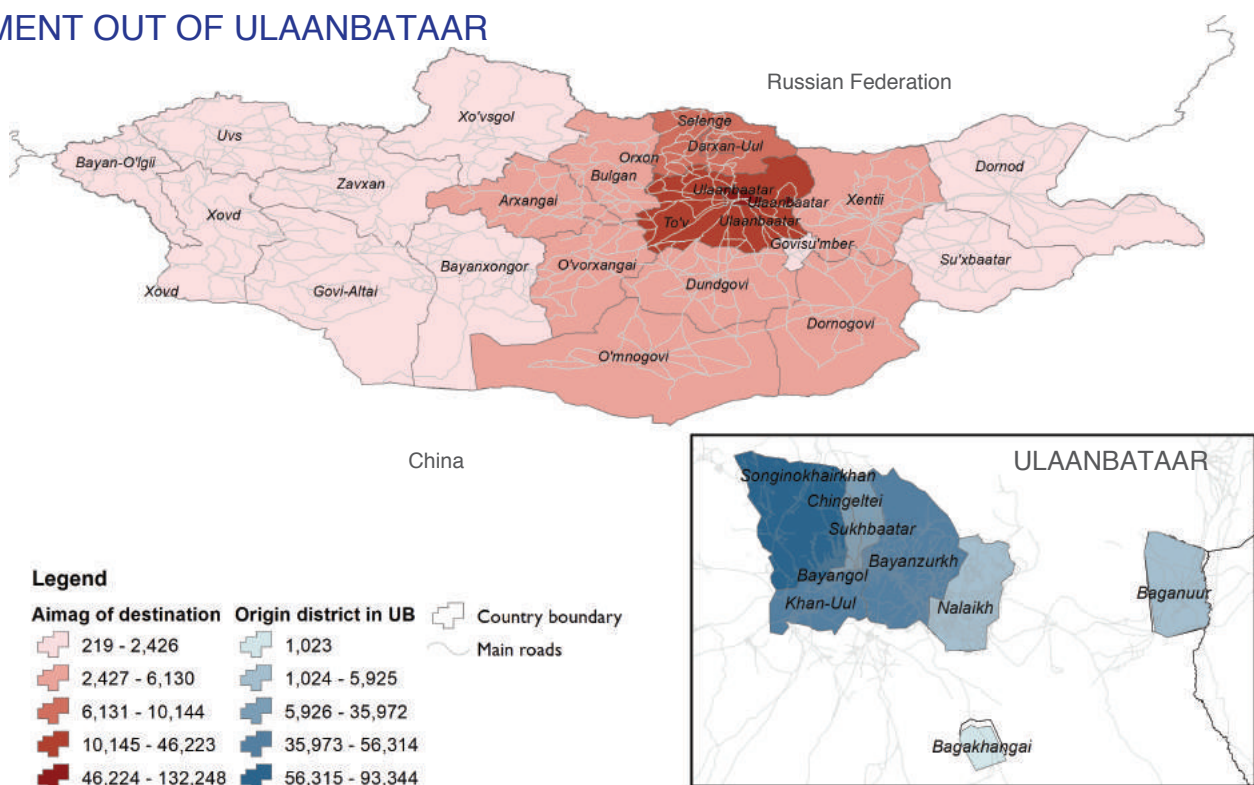
DEMOGRAPHICS
XX% - **Overall**
XX% - **Past 24 hrs**

	MEN	WOMEN	BOYS	GIRLS
Overall	47%	32%	11%	10%
Past 24 hrs	54%	30%	9%	8%

Aimag of origin \ UB district of destination	?	Bagakhangai	Baganuur	Bayangol	Bayanzurkh	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Ulaanbaatar	368	893	4,215	9,414	15,151	5,929	35,103	4,750	50,994	5,431	132,248
Arkhangai	26	3	20	1,954	2,648	821	1,150	53	3,520	726	10,921
Bayankhongor	-	-	-	24	32	16	13	5	272	9	371
Bayan-Ulgii	4	-	-	46	94	20	21	6	122	43	356
Bulgan	45	18	19	1,566	2,017	585	1,075	41	2,215	533	8,114
Darkhan-Uul	28	13	39	2,197	2,842	811	1,529	121	4,099	897	12,576
Dornod	1	3	-	296	1,234	228	237	-	373	281	2,653
Dornogobi	14	6	3	584	1,405	168	306	13	427	303	3,229
Dundgobi	21	-	-	751	1,466	316	969	-	1,035	390	4,948
Gobi-Altai	4	4	19	306	600	135	204	3	630	155	2,060
Gobisumber	14	3	12	471	1,451	159	306	2	312	316	3,046
Khentii	3	3	11	708	3,617	429	487	4	602	631	6,495
Khovd	-	-	-	32	30	21	24	-	243	2	352
Khuvsgul	16	12	43	1,193	1,499	398	658	23	1,703	467	6,012
Orkhon	28	-	12	1,483	2,125	493	1,214	67	2,266	727	8,415
Selenge	60	7	63	2,992	3,336	1,098	1,566	117	3,579	1,130	13,948
Sukhbaatar	2	-	5	257	1,297	101	143	7	191	172	2,175
Tuv	159	56	163	8,528	11,308	4,124	8,197	243	16,617	3,923	53,318
Umnugobi	14	1	16	668	1,022	186	1,001	14	1,015	232	4,169
Uvurkhangai	57	5	48	2,111	2,619	843	1,805	85	3,953	680	12,206
Zavkhan	17	-	4	661	1,090	235	485	9	806	271	3,578
?	12	3	-	67	115	8	43	23	124	46	441
TOTAL	**893**	**1,030**	**4,692**	**36,309**	**56,998**	**17,124**	**56,536**	**5,586**	**95,098**	**17,365**	**291,631**

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MOVEMENT OUT OF ULAANBATAAR

Russian Federation

China

ULAANBATAAR

Legend

Aimag of destination
- 219 - 2,426
- 2,427 - 6,130
- 6,131 - 10,144
- 10,145 - 46,223
- 46,224 - 132,248

Origin district in UB
- 1,023
- 1,024 - 5,925
- 5,926 - 35,972
- 35,973 - 56,314
- 56,315 - 93,344

- Country boundary
- Main roads

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DEMOGRAPHICS
XX% - Overall
XX% - Past 24 hrs

	50% / 62%	29% / 27%	11% / 6%	10% / 5%

Aimag of destination \ UB District of origin	?	Bagakhangai	Bayanzurkh	Baganuur	Bayangol	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Arkhangai	83	-	781	5	579	342	364	25	1,729	224	4,132
Bayankhongor	55	-	310	41	283	100	227	5	681	103	1,805
Bayan-Ulgii	-	-	84	-	56	-	12	-	46	21	219
Bulgan	73	-	845	12	586	268	436	16	1,254	194	3,684
Darkhan-Uul	30	-	1,717	35	1,295	487	885	106	3,027	541	8,123
Dornod	5	-	1,117	-	224	168	260	4	279	200	2,257
Dornogobi	30	-	1,826	10	701	288	414	-	434	312	4,015
Dundgobi	7	-	1,080	5	418	201	656	19	746	264	3,396
Gobi-Altai	17	5	110	13	62	47	72	6	236	65	633
Gobisumber	8	-	1,280	13	330	140	196	-	270	189	2,426
Khentii	7	4	2,966	6	577	314	374	-	432	389	5,069
Khovd	5	-	136	-	52	25	96	23	169	30	536
Khuvsgul	12	-	379	3	281	100	220	-	593	137	1,725
Orkhon	27	6	1,352	36	920	399	800	54	2,115	421	6,130
Selenge	13	3	2,297	71	2,026	638	1,208	179	3,027	682	10,144
Sukhbaatar	3	-	887	2	108	82	156	-	127	167	1,532
Tuv	281	40	9,651	130	6,862	3,455	7,601	206	14,781	3,216	46,223
Umnugobi	14	6	1,334	28	675	309	1,148	20	1,302	399	5,235
Uvs	15	-	90	-	35	34	55	21	194	34	478
Uvurkhangai	79	-	1,012	14	679	283	582	18	1,581	327	4,575
Zavkhan	17	-	224	7	100	43	123	4	415	63	996
?	23	-	72	6	54	38	46	10	222	22	493
TOTAL	804	64	29,550	437	16,903	7,761	15,931	716	33,660	8,000	113,826