DTM
MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs March 22th, 2020)

SITREP # 25
23-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

805,235
cumulative movements tracked by DTM flow monitoring points (FMP)

52,332 ↑
Movements tracked in the past 24 hrs

10,196 (R)
46,067 (N)
Average movement per day during restricted (R) and unrestricted (N) periods

DEMOGRAPHICS

XX% - Overall
XX% - Past 24 hrs

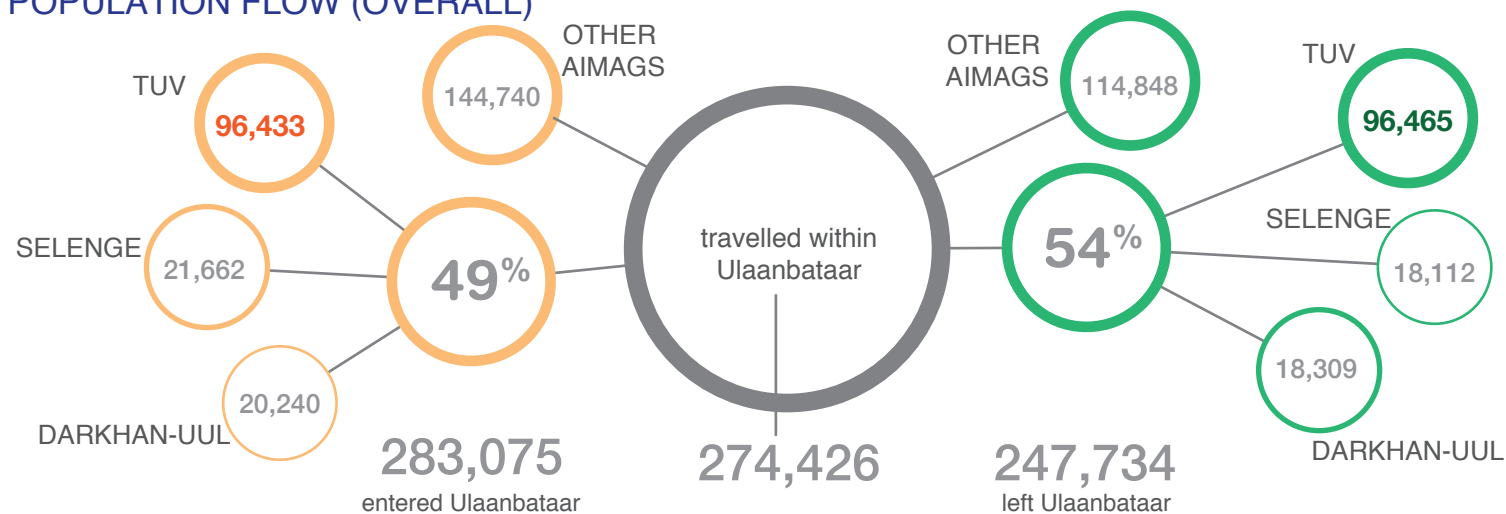MEN **51%** **48%**
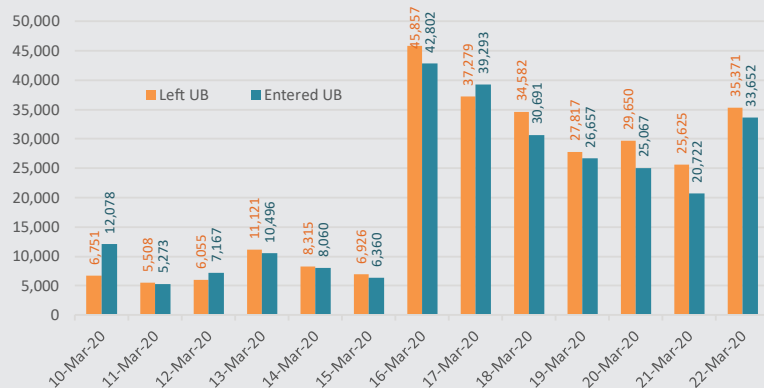
WOMEN **31%** **32%**

BOYS **10%** **12%**

GIRLS **8%** **9%**

POPULATION FLOW (OVERALL)

TUV **96,433**
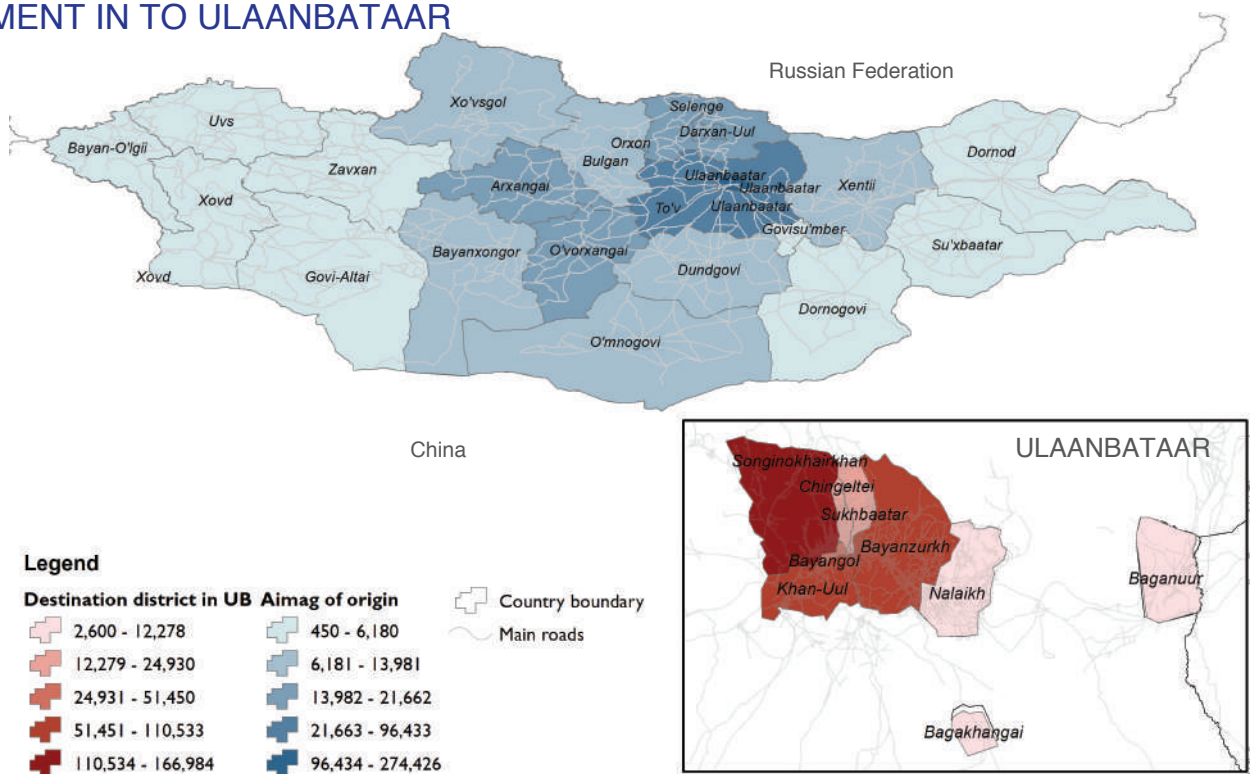OTHER AIMAGS 144,740
SELENGE 21,662
DARKHAN-UUL 20,240

49%

travelled within Ulaanbataar

54%

OTHER AIMAGS 114,848
TUV **96,465**
SELENGE 18,112
DARKHAN-UUL 18,309

283,075 entered Ulaanbataar

274,426

247,734 left Ulaanbataar

MOVEMENT TRENDS

Left UB / Entered UB

Date	Left UB	Entered UB
10-Mar-20	6,751	12,078
11-Mar-20	5,508	5,273
12-Mar-20	6,055	7,167
13-Mar-20	11,121	10,496
14-Mar-20	8,315	8,060
15-Mar-20	6,926	6,360
16-Mar-20	45,857	42,802
17-Mar-20	37,279	39,293
18-Mar-20	34,582	30,691
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

MOVEMENT THROUGH CHECKPOINTS

Checkpoint	OVERALL			22-Mar-20		
	TOTAL	IN	OUT	TOTAL	IN	OUT
Emeelt	309,647	175,919	133,728	27,902	13,752	14,150
Baruunturuun	206,961	101,476	105,485	10,870	5,296	5,574
Nalaikh	184,068	91,907	92,161	10,026	4,780	5,246
Morin	154,972	77,649	77,323	8,664	4,332	4,332
Ulziit	124,487	59,033	65,454	5,588	2,308	3,280
Gunt	99,227	51,403	47,824	5,973	3,184	2,789
Total	1,079,362	557,387	521,975	69,023	33,652	35,371

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MOVEMENT IN TO ULAANBATAAR

Russian Federation

China

ULAANBATAAR

Legend

Destination district in UB
- 2,600 - 12,278
- 12,279 - 24,930
- 24,931 - 51,450
- 51,451 - 110,533
- 110,534 - 166,984

Aimag of origin
- 450 - 6,180
- 6,181 - 13,981
- 13,982 - 21,662
- 21,663 - 96,433
- 96,434 - 274,426

Country boundary
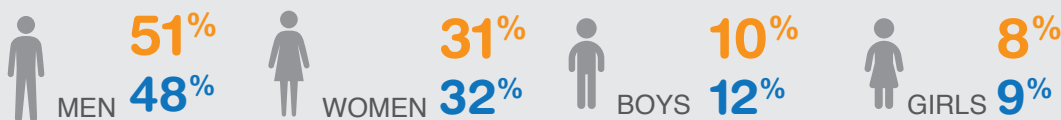Main roads

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

DEMOGRAPHICS

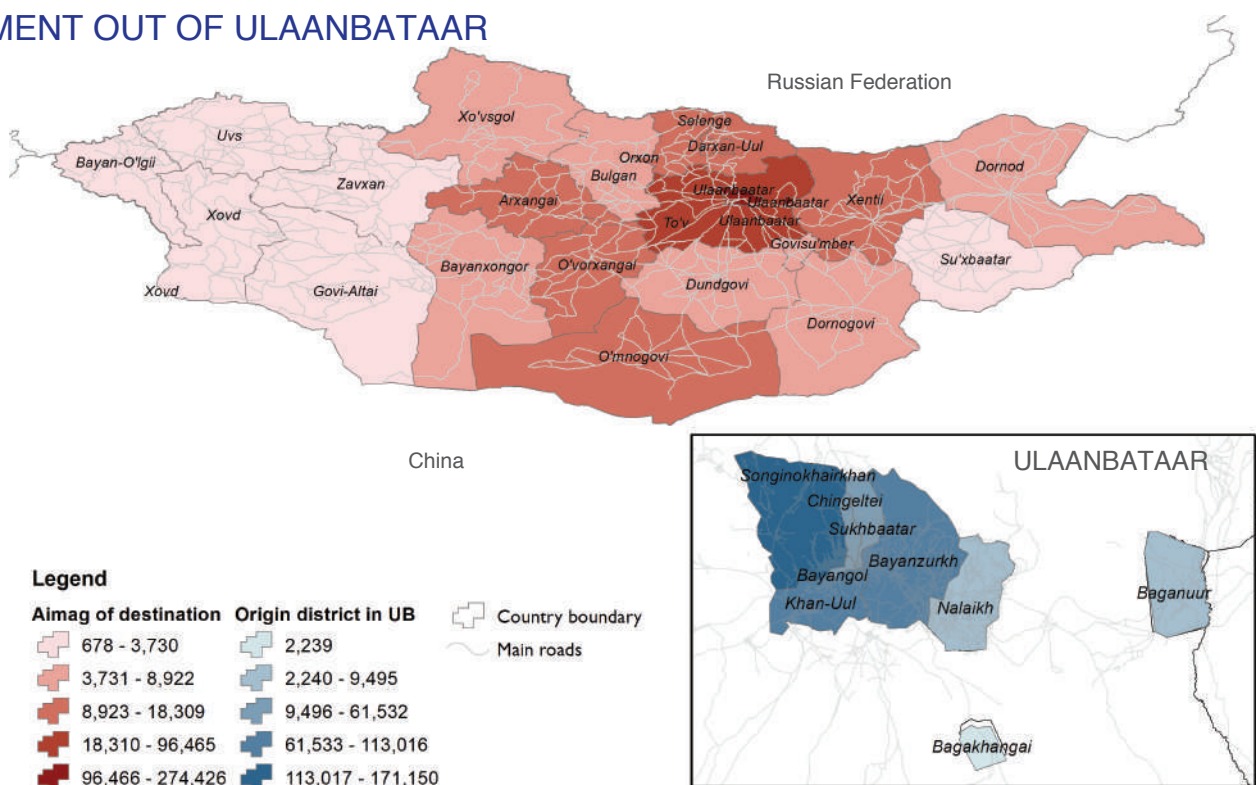XX% - Overall
XX% - Past 24 hrs

	Overall	Past 24 hrs
MEN	51%	48%
WOMEN	31%	32%
BOYS	10%	12%
GIRLS	8%	9%

UB district of destination / Aimag of origin	?	Bagakhangai	Baganuur	Bayangol	Bayanzurkh	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Ulaanbaatar	760	2,049	8,299	17,560	31,683	10,882	78,752	12,656	100,520	11,265	274,426
Arkhangai	49	10	24	2,866	3,692	1,222	1,771	82	5,584	1,039	16,339
Bayankhongor	34	1	23	1,031	1,639	504	784	75	2,810	545	7,446
Bayan-Ulgii	4	-	-	51	113	24	21	6	172	59	450
Bulgan	73	18	25	2,200	3,021	921	1,637	53	3,563	764	12,275
Darkhan-Uul	59	20	55	3,382	4,223	1,173	2,397	221	7,435	1,275	20,240
Dornod	7	3	-	518	2,206	376	455	7	630	455	4,657
Dornogobi	21	6	3	1,152	2,533	324	678	17	929	517	6,180
Dundgobi	30	-	5	1,332	2,835	529	1,552	6	1,746	681	8,716
Gobi-Altai	8	11	29	525	889	235	306	11	1,286	255	3,555
Gobisumber	18	3	12	831	2,723	252	525	5	569	465	5,403
Khentii	15	3	11	1,145	6,151	753	898	8	1,042	951	10,977
Khovd	5	-	9	368	703	168	404	38	1,031	99	2,825
Khuvsgul	30	18	56	1,694	2,176	581	1,070	43	2,582	655	8,905
Orkhon	53	-	36	2,507	3,320	782	1,983	122	4,142	1,036	13,981
Selenge	83	21	76	4,687	5,053	1,560	2,558	221	5,817	1,586	21,662
Sukhbaatar	17	4	14	392	2,202	165	250	15	341	270	3,670
Tuv	372	65	237	15,185	20,224	7,133	15,969	393	29,848	7,007	96,433
Umnugobi	49	5	25	1,452	2,485	491	2,314	34	2,543	599	9,997
Uvurkhangai	82	31	62	2,956	3,916	1,283	2,542	110	6,536	987	18,505
Zavkhan	24	3	4	1,008	1,672	373	707	27	1,692	447	5,957
Uvs	17	5	4	480	934	235	403	42	1,535	185	3,840
?	18	3	-	141	322	42	136	38	257	105	1,062
TOTAL	1,828	2,279	9,009	63,463	104,715	30,008	118,112	14,230	182,610	31,247	557,501

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Russian Federation

China

ULAANBATAAR

Legend

Aimag of destination
- 678 - 3,730
- 3,731 - 8,922
- 8,923 - 18,309
- 18,310 - 96,465
- 96,466 - 274,426

Origin district in UB
- 2,239
- 2,240 - 9,495
- 9,496 - 61,532
- 61,533 - 113,016
- 113,017 - 171,150

- Country boundary
- Main roads

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DEMOGRAPHICS
XX% - Overall
XX% - Past 24 hrs

| | 51% / 47% | 29% / 31% | 11% / 12% | 9% / 10% |

UB District of origin / Aimag of destination	?	Bagakhangai	Bayanzurkh	Baganuur	Bayangol	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Arkhangai	106	-	2,167	25	1,651	797	1,072	55	3,880	699	10,452
Bayankhongor	63	3	829	59	572	299	519	48	2,004	302	4,698
Bayan-Ulgii	-	-	175	-	155	23	24	-	274	27	678
Bulgan	75	1	1,999	18	1,552	674	1,019	20	3,002	562	8,922
Darkhan-Uul	44	11	3,130	42	2,600	935	1,778	146	8,594	1,029	18,309
Dornod	14	8	2,579	2	456	372	521	9	588	349	4,898
Dornogobi	47	-	3,531	23	1,405	555	997	1	1,102	516	8,177
Dundgobi	32	7	2,481	9	1,029	469	1,487	24	1,662	605	7,805
Gobi-Altai	21	9	301	17	159	99	172	6	969	96	1,849
Gobisumber	11	-	2,575	13	691	280	455	4	580	333	4,942
Khentii	30	4	6,412	8	1,132	646	822	4	1,012	874	10,944
Khovd	10	-	364	-	138	62	226	27	758	90	1,675
Khuvsgul	26	3	1,032	8	691	272	615	12	1,934	272	4,865
Orkhon	49	6	2,386	54	1,980	723	1,645	79	4,542	710	12,174
Selenge	27	12	3,895	96	3,830	1,195	2,119	245	5,562	1,131	18,112
Sukhbaatar	10	-	2,159	2	279	195	322	-	390	373	3,730
Tuv	395	52	19,689	194	14,886	6,772	16,926	375	30,341	6,835	96,465
Umnugobi	36	11	3,333	47	1,580	731	2,819	63	3,057	924	12,601
Uvs	15	7	330	-	122	90	171	25	600	83	1,443
Uvurkhangai	87	13	2,301	41	1,731	614	1,443	45	4,502	689	11,466
Zavkhan	25	5	626	12	360	143	253	19	1,121	128	2,692
?	44	-	137	13	90	64	93	27	329	40	837
TOTAL	1,167	152	62,431	683	37,089	16,010	35,498	1,234	76,803	16,667	247,734