DTM
MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs May 31st, 2020)

SITREP # 90
01-June-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 June 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

3,458,342
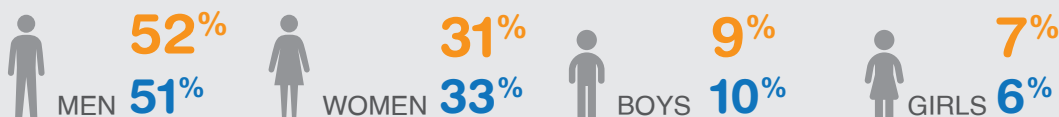cumulative movements tracked by DTM flow monitoring points (FMP)

139,210
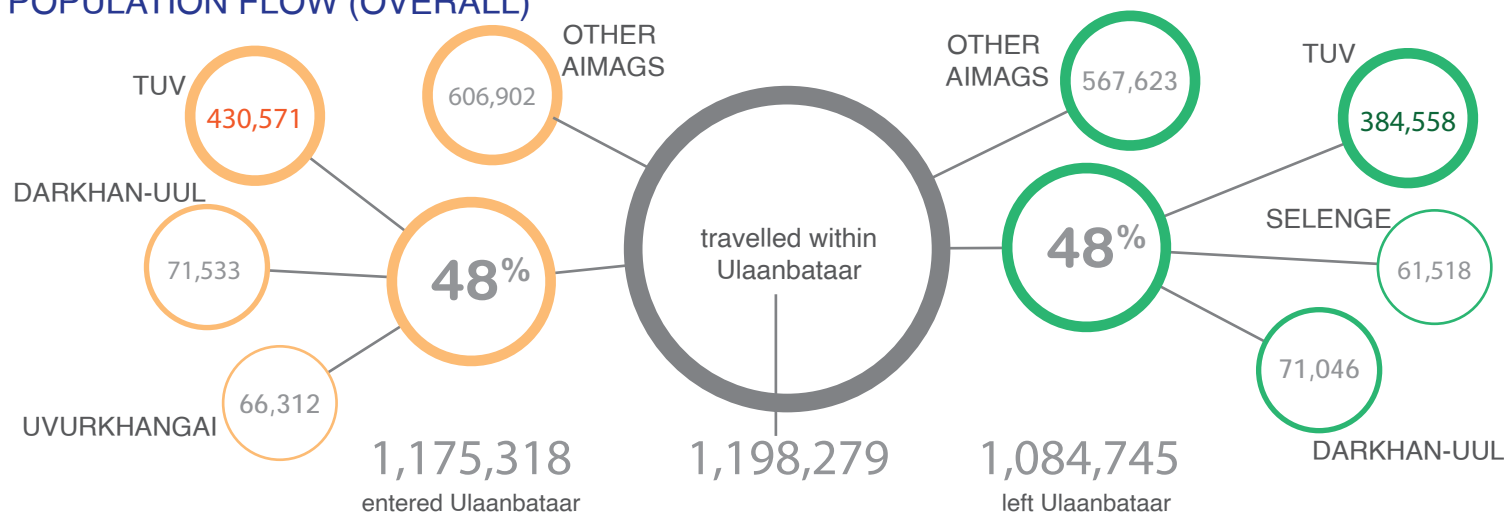Movements tracked from May 27th to 31st May

13,110 (R)
40,733 (N)
Average movement per day during restricted (R) and unrestricted (N) periods

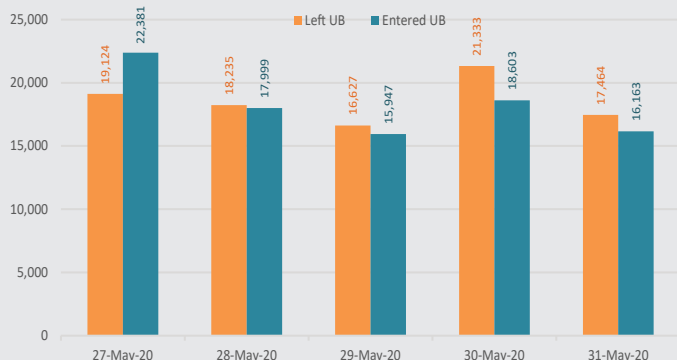## DEMOGRAPHICS

XX% - Overall
XX% - Past 24 hrs

MEN 52% / 51%
WOMEN 31% / 33%
BOYS 9% / 10%
GIRLS 7% / 6%

POPULATION FLOW (OVERALL)

TUV 430,571
OTHER AIMAGS 606,902
DARKHAN-UUL 71,533
UVURKHANGAI 66,312

48%

travelled within Ulaanbataar

48%

OTHER AIMAGS 567,623
TUV 384,558
SELENGE 61,518
DARKHAN-UUL 71,046

1,175,318
entered Ulaanbataar

1,198,279

1,084,745
left Ulaanbataar

MOVEMENT TRENDS

Legend: Left UB / Entered UB

Date	Left UB	Entered UB
27-May-20	19,124	22,381
28-May-20	18,235	17,999
29-May-20	16,627	15,947
30-May-20	21,333	18,603
31-May-20	17,464	16,163

MOVEMENT THROUGH CHECKPOINTS

Checkpoint	OVERALL			31-May-20		
	TOTAL	IN	OUT	TOTAL	IN	OUT
Baruunturuun	402,017	191,320	210,697	0	0	0
Ulziit	497,885	263,835	234,050	5,415	2,582	2,833
Nalaikh	1,034,098	514,079	520,019	4,249	2,048	2,201
Morin	861,307	430,676	430,631	12,486	6,249	6,237
Emeelt	1,238,105	661,986	576,119	7,805	3,782	4,023
Gunt	622,149	311,255	310,894	3,672	1,502	2,170
Total	4,655,561	2,373,151	2,282,410	33,627	16,163	17,464

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MOVEMENT IN TO ULAANBATAAR
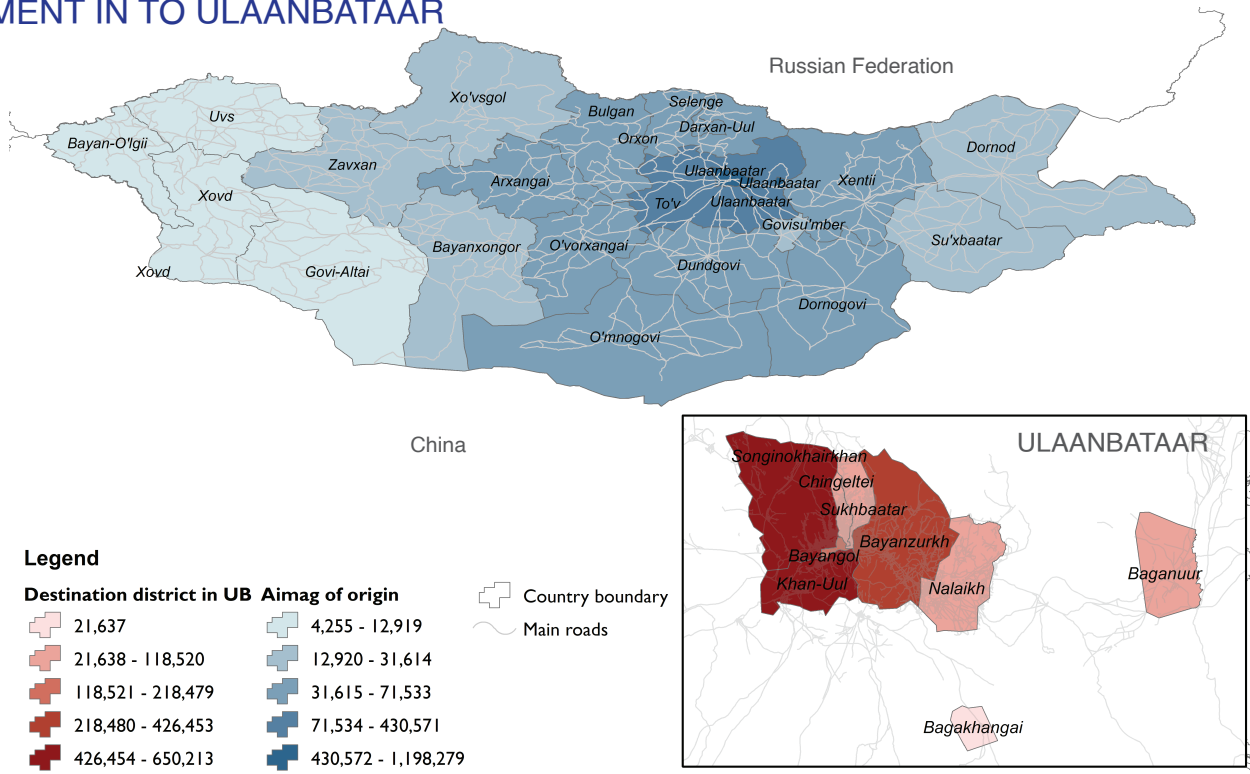
Russian Federation

China

ULAANBATAAR

Legend

Destination district in UB
- 21,637
- 21,638 - 118,520
- 118,521 - 218,479
- 218,480 - 426,453
- 426,454 - 650,213

Aimag of origin
- 4,255 - 12,919
- 12,920 - 31,614
- 31,615 - 71,533
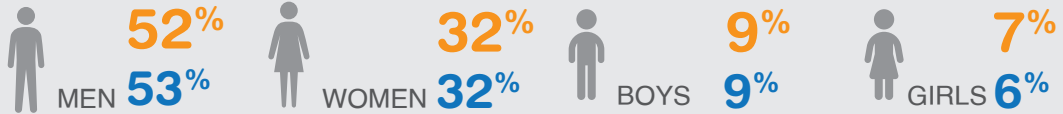- 71,534 - 430,571
- 430,572 - 1,198,279

- Country boundary
- Main roads

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

DEMOGRAPHICS

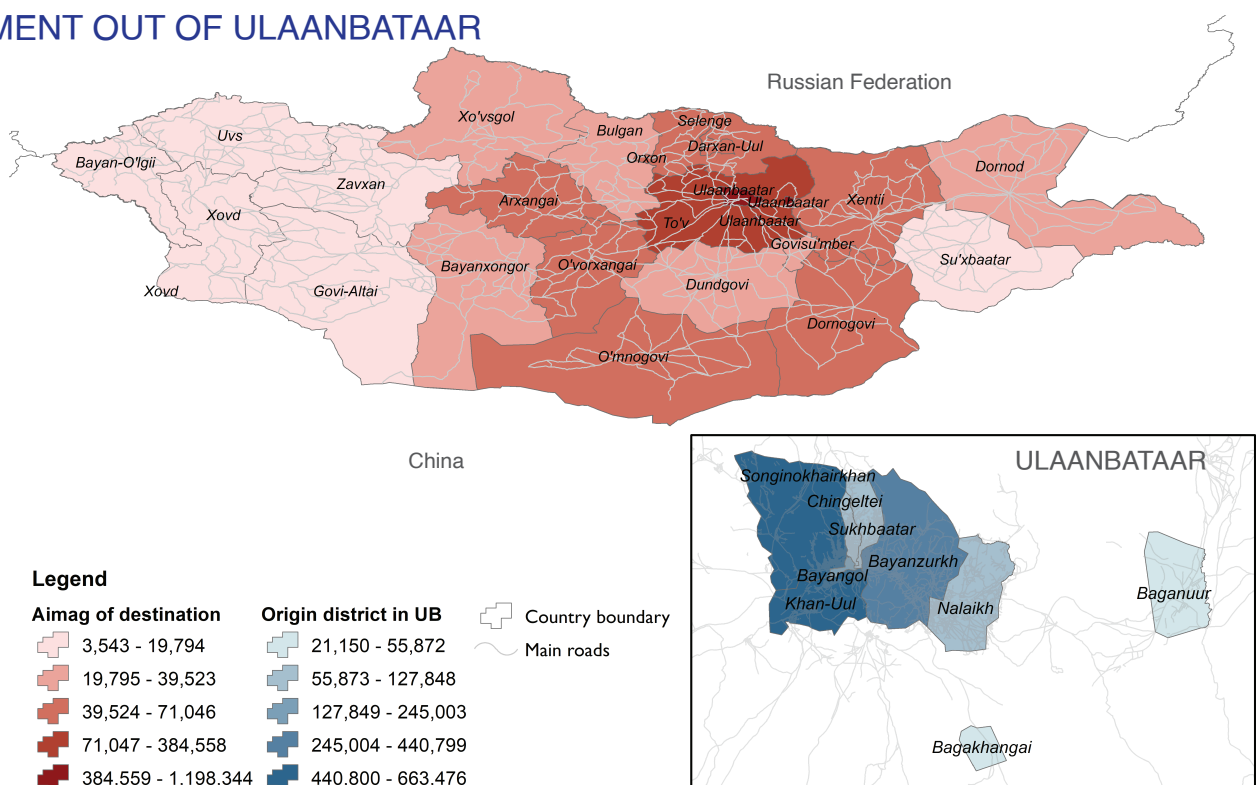XX% - Overall
XX% - Past 24 hrs

	MEN	WOMEN	BOYS	GIRLS
Overall	52%	32%	9%	7%
Past 24 hrs	53%	32%	9%	6%

of destination	?	Bagakhangai	Baganuur	Bayangol	Bayanzurkh	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Ulaanbaatar	6,955	19,958	51,584	69,045	138,749	57,314	406,808	65,231	335,600	47,035	1,198,279
Arkhangai	266	34	82	9,511	11,899	4,056	6,177	256	21,438	3,254	56,973
Bayankhongor	155	25	74	3,638	5,852	1,787	3,021	215	11,656	1,899	28,322
Bayan-Ulgii	23	5	1	516	919	182	209	55	2,041	304	4,255
Bulgan	261	28	88	7,495	10,060	3,113	5,442	140	14,003	2,618	43,248
Darkhan-Uul	344	67	196	10,644	12,928	3,559	7,695	432	31,195	4,473	71,533
Dornod	143	37	23	2,223	11,382	1,410	2,512	191	2,278	1,904	22,103
Dornogobi	429	79	186	7,880	17,207	2,317	5,458	753	4,983	3,404	42,696
Dundgobi	285	23	123	5,754	14,320	2,322	7,661	255	7,524	3,038	41,305
Gobi-Altai	54	30	39	1,384	2,502	713	1,197	54	5,463	676	12,112
Gobisumber	347	37	175	4,283	15,281	1,217	2,952	658	2,728	1,957	29,635
Khentii	327	61	59	5,139	32,573	2,940	4,846	703	4,920	4,010	55,578
Khovd	18	2	20	1,246	2,167	511	1,211	58	6,199	425	11,857
Khuvsgul	150	38	117	4,610	6,822	1,973	3,225	189	12,462	2,028	31,614
Orkhon	261	7	152	10,089	10,945	2,475	7,039	285	16,385	3,202	50,840
Selenge	248	49	256	15,381	14,957	4,573	7,690	460	17,098	4,757	65,469
Sukhbaatar	114	44	74	1,679	10,720	1,034	1,679	249	1,637	1,441	18,671
Tuv	2,384	405	1,662	62,797	93,662	28,913	75,414	15,350	119,420	30,564	430,571
Umnugobi	250	12	205	7,374	13,773	2,515	14,024	323	11,478	3,414	53,368
Uvurkhangai	334	69	146	9,133	13,330	3,671	8,455	331	27,118	3,725	66,312
Zavkhan	89	50	29	2,881	4,908	1,108	2,131	93	7,077	1,349	19,715
Uvs	44	11	27	1,428	2,776	621	1,317	121	5,925	649	12,919
?	106	30	480	690	1,591	220	1,017	425	1,269	394	6,222
TOTAL	13,587	21,101	55,798	244,820	449,323	128,544	577,180	86,827	669,897	126,520	2,373,597

DTM

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MOVEMENT OUT OF ULAANBATAAR

Russian Federation

China

ULAANBATAAR

Legend

Aimag of destination
- 3,543 - 19,794
- 19,795 - 39,523
- 39,524 - 71,046
- 71,047 - 384,558
- 384,559 - 1,198,344

Origin district in UB
- 21,150 - 55,872
- 55,873 - 127,848
- 127,849 - 245,003
- 245,004 - 440,799
- 440,800 - 663,476

- Country boundary
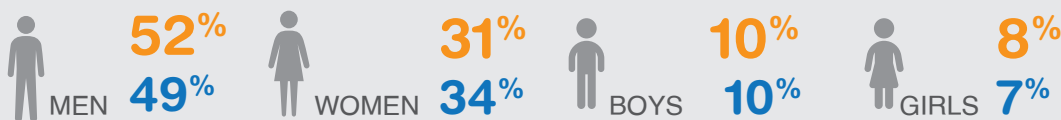- Main roads

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DEMOGRAPHICS
XX% - Overall
XX% - Past 24 hrs

	Overall	Past 24 hrs
MEN	52%	49%
WOMEN	31%	34%
BOYS	10%	10%
GIRLS	8%	7%

Aimag of destination \ UB District of origin	?	Bagakhangai	Bayanzurkh	Baganuur	Bayangol	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Arkhangai	437	57	9,990	93	7,267	3,296	5,008	260	18,321	3,145	47,874
Bayankhongor	128	27	4,382	96	3,283	1,487	2,795	143	10,552	1,667	24,560
Bayan-Ulgii	4	1	890	-	564	181	208	29	1,446	220	3,543
Bulgan	353	3	8,096	71	6,056	2,525	4,515	91	12,487	2,324	36,521
Darkhan-Uul	262	45	11,281	211	9,371	3,408	7,075	500	34,281	4,612	71,046
Dornod	166	33	13,337	56	2,412	1,368	2,609	420	2,102	1,815	24,318
Dornogobi	420	38	19,613	303	7,932	2,649	6,174	704	5,076	3,106	46,015
Dundgobi	155	23	13,755	172	4,955	2,071	7,670	205	7,517	3,000	39,523
Gobi-Altai	40	13	1,978	66	1,100	579	1,091	89	5,497	611	11,064
Gobisumber	249	44	14,866	174	3,707	1,266	2,877	618	2,645	1,623	28,069
Khentii	351	75	34,000	90	5,043	2,814	4,773	894	4,417	3,965	56,422
Khovd	31	5	1,922	19	1,079	374	991	76	4,851	528	9,876
Khuvsgul	106	11	5,327	47	3,517	1,509	2,814	105	11,305	1,698	26,439
Orkhon	220	16	9,152	186	8,661	2,385	6,225	248	16,852	2,854	46,799
Selenge	201	43	13,113	270	14,012	4,310	6,953	542	17,728	4,346	61,518
Sukhbaatar	148	29	11,656	82	1,629	941	1,711	277	1,649	1,672	19,794
Tuv	2,026	288	86,733	1,715	54,023	25,929	67,238	13,842	105,281	27,483	384,558
Umnugobi	125	39	14,369	256	7,259	3,006	14,433	363	11,788	4,088	55,726
Uvs	65	10	2,205	33	1,338	598	1,277	79	4,671	690	10,966
Uvurkhangai	297	59	10,207	152	7,865	2,957	6,972	248	22,706	3,252	54,715
Zavkhan	77	17	4,036	29	2,440	969	1,864	115	7,109	1,012	17,668
?	369	33	1,641	107	782	389	1,396	588	1,934	492	7,731
TOTAL	6,230	909	292,549	4,228	154,295	65,011	156,669	20,436	310,215	74,203	1,084,745