DTM
MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs April 13th, 2020)

SITREP # 46
14-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

1,736,968
cumulative movements tracked by DTM flow monitoring points (FMP)

40,665 ▼
Movements tracked in the past 24 hrs

10,196 (R)
43,797 (N)
Average movement per day during restricted (R) and unrestricted (N) periods
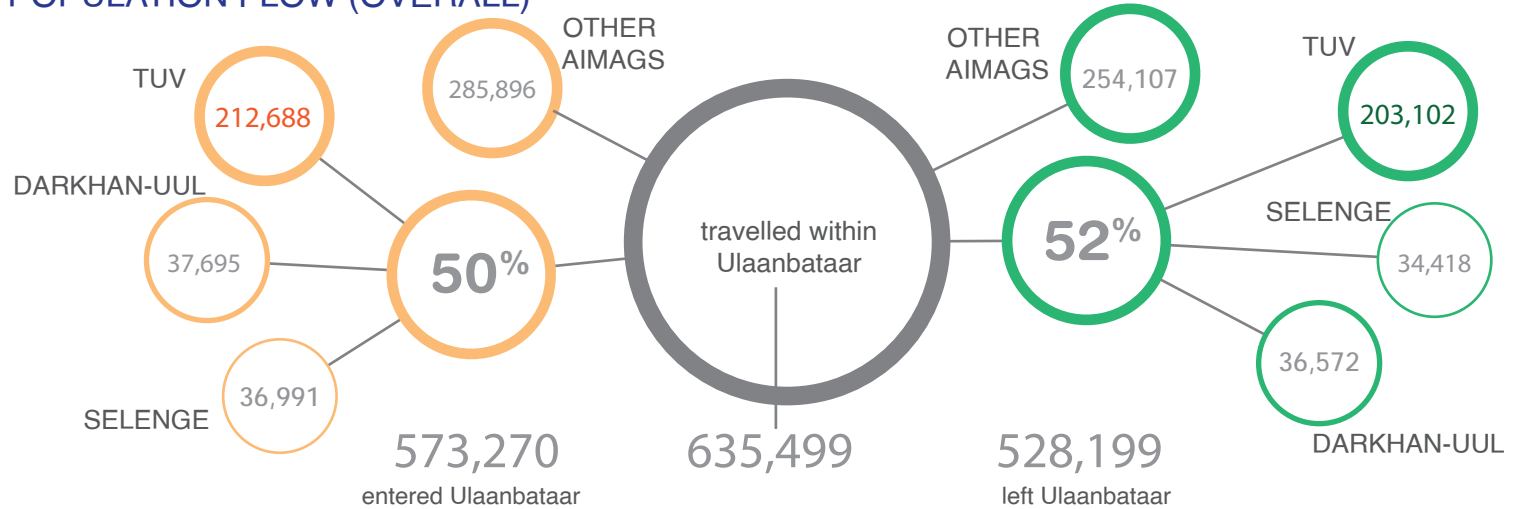
DEMOGRAPHICS

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

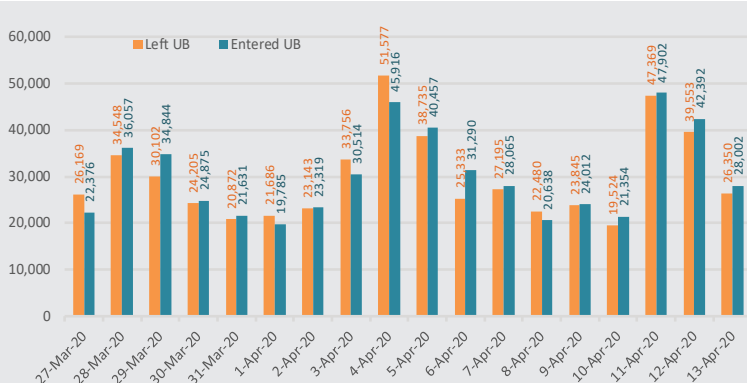**51%** / **53%** MEN
31% / **31%** WOMEN
10% / **9%** BOYS
8% / **7%** GIRLS

POPULATION FLOW (OVERALL)

TUV 212,688
OTHER AIMAGS 285,896
DARKHAN-UUL 37,695
SELENGE 36,991

50%

travelled within Ulaanbataar

52%

OTHER AIMAGS 254,107
TUV 203,102
SELENGE 34,418
DARKHAN-UUL 36,572

573,270 entered Ulaanbataar
635,499
528,199 left Ulaanbataar

MOVEMENT TRENDS

Left UB / Entered UB

Date	Left UB	Entered UB
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
6-Apr-20	26,333	31,290
7-Apr-20	27,195	28,065
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

MOVEMENT THROUGH CHECKPOINTS

Checkpoint	OVERALL			13-Apr-20		
	TOTAL	IN	OUT	TOTAL	IN	OUT
Baruunturuun	350,570	167,883	182,687	3,043	1,211	1,832
Ulziit	265,359	136,249	129,110	4,768	2,396	2,372
Nalaikh	521,334	261,591	259,743	5,995	3,005	2,990
Morin	373,378	186,836	186,542	10,510	5,256	5,254
Emeelt	585,619	318,064	267,555	22,569	12,263	10,306
Gunt	275,820	137,998	137,822	7,467	3,871	3,596
Total	2,372,080	1,208,621	1,163,459	54,352	28,002	26,350

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MOVEMENT IN TO ULAANBATAAR
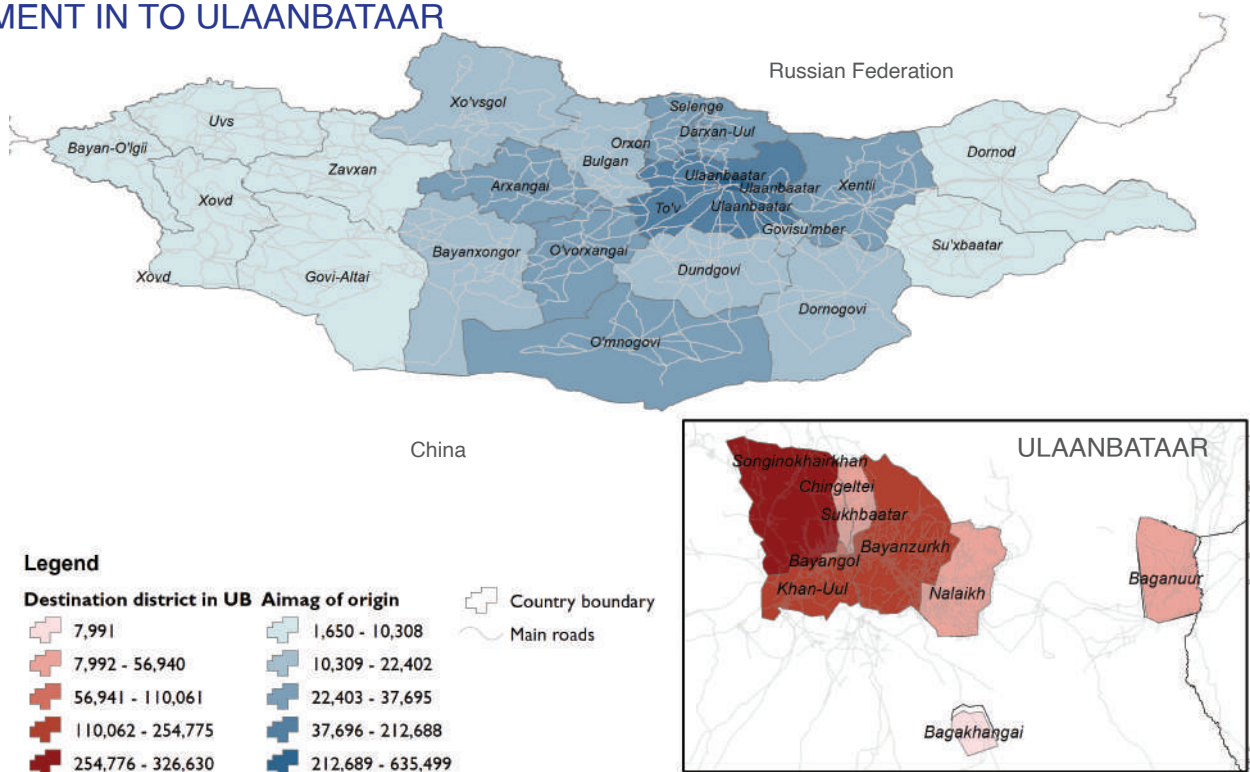
Russian Federation

China

ULAANBATAAR

Legend

Destination district in UB
- 7,991
- 7,992 - 56,940
- 56,941 - 110,061
- 110,062 - 254,775
- 254,776 - 326,630

Aimag of origin
- 1,650 - 10,308
- 10,309 - 22,402
- 22,403 - 37,695
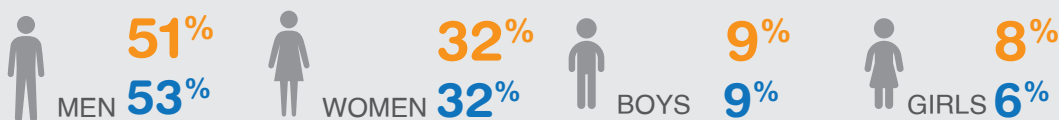- 37,696 - 212,688
- 212,689 - 635,499

- Country boundary
- Main roads

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

DEMOGRAPHICS

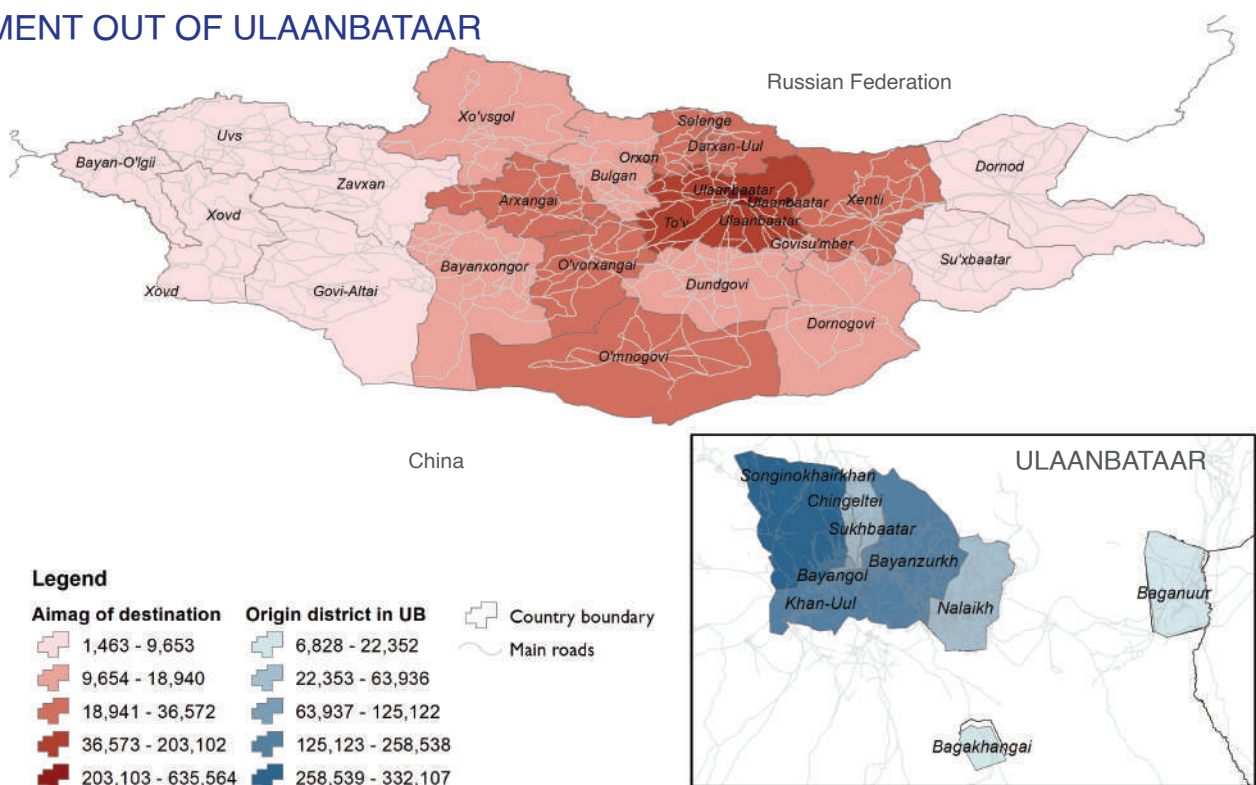XX% - Overall
XX% - Past 24 hrs

	Overall	Past 24 hrs
MEN	51%	53%
WOMEN	32%	32%
BOYS	9%	9%
GIRLS	8%	6%

of destination	?	Bagakhangai	Baganuur	Bayangol	Bayanzurkh	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Ulaanbaatar	2,360	6,396	21,069	38,821	82,829	26,618	184,059	50,481	196,424	26,442	635,499
Arkhangai	123	12	55	5,058	6,410	2,027	3,187	141	9,912	1,768	28,693
Bayankhongor	60	10	48	1,988	2,905	970	1,461	124	5,363	964	13,893
Bayan-Ulgii	14	-	-	205	391	75	91	12	710	152	1,650
Bulgan	166	22	39	4,117	5,389	1,537	2,886	84	6,838	1,324	22,402
Darkhan-Uul	218	34	108	5,927	7,329	1,936	4,186	299	15,307	2,351	37,695
Dornod	74	17	10	1,089	4,692	698	1,074	52	1,120	836	9,662
Dornogobi	91	18	55	2,913	6,446	843	2,037	153	2,243	1,243	16,042
Dundgobi	84	13	27	2,794	6,385	1,023	3,359	52	3,385	1,426	18,548
Gobi-Altai	39	11	31	788	1,437	355	622	27	2,384	388	6,082
Gobisumber	63	9	51	1,859	6,248	588	1,285	126	1,223	934	12,386
Khentii	106	8	20	2,361	13,639	1,307	2,212	148	2,327	1,902	24,030
Khovd	7	-	12	677	1,231	283	696	43	2,514	198	5,661
Khuvsgul	73	25	85	2,631	3,497	937	1,816	76	5,111	1,073	15,324
Orkhon	110	4	103	5,034	5,866	1,311	3,732	176	7,868	1,824	26,028
Selenge	143	34	160	8,178	8,680	2,583	4,431	333	9,718	2,731	36,991
Sukhbaatar	58	18	26	751	4,541	402	648	62	719	613	7,838
Tuv	1,005	177	575	32,828	45,783	14,762	37,471	3,252	61,177	15,658	212,688
Umnugobi	121	7	56	3,428	6,335	1,176	6,025	110	5,887	1,610	24,755
Uvurkhangai	142	51	85	5,121	7,009	1,974	4,364	178	12,559	1,829	33,312
Zavkhan	58	10	20	1,713	2,710	562	1,193	59	3,190	793	10,308
Uvs	21	5	18	796	1,609	351	658	89	2,639	357	6,543
?	48	8	20	377	774	107	380	184	618	223	2,739
TOTAL	5,184	6,889	22,673	129,454	232,135	62,425	267,873	56,261	359,236	66,639	1,208,769

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

Aimag of destination
- 1,463 - 9,653
- 9,654 - 18,940
- 18,941 - 36,572
- 36,573 - 203,102
- 203,103 - 635,564

Origin district in UB
- 6,828 - 22,352
- 22,353 - 63,936
- 63,937 - 125,122
- 125,123 - 258,538
- 258,539 - 332,107

- 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	52%	31%	9%	7%

UB District of origin / Aimag of destination	?	Bagakhangai	Bayanzurkh	Baganuur	Bayangol	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Arkhangai	313	15	4,821	37	3,645	1,615	2,435	148	8,592	1,396	23,017
Bayankhongor	86	18	1,937	78	1,478	690	1,242	75	4,774	675	11,053
Bayan-Ulgii	-	-	354	-	265	57	101	4	587	95	1,463
Bulgan	203	1	4,240	42	3,182	1,409	2,280	40	6,413	1,130	18,940
Darkhan-Uul	117	13	6,097	97	4,961	1,807	3,662	230	17,588	2,000	36,572
Dornod	69	8	5,176	2	928	651	1,073	56	987	703	9,653
Dornogobi	69	5	7,406	100	2,934	1,097	2,348	125	2,313	1,166	17,563
Dundgobi	74	17	6,158	70	2,370	1,049	3,364	78	3,702	1,432	18,314
Gobi-Altai	31	9	928	18	380	233	486	49	2,305	232	4,671
Gobisumber	53	-	5,922	48	1,540	601	1,060	89	1,181	707	11,201
Khentii	122	12	13,260	27	2,221	1,145	1,819	121	1,954	1,638	22,319
Khovd	15	-	933	7	473	161	486	44	2,101	225	4,445
Khuvsgul	67	7	2,438	16	1,488	699	1,377	54	5,061	683	11,890
Orkhon	117	9	4,648	92	4,338	1,323	3,136	144	8,628	1,367	23,802
Selenge	69	19	7,385	157	7,385	2,262	4,029	396	10,410	2,306	34,418
Sukhbaatar	49	6	4,657	13	550	400	688	31	790	672	7,856
Tuv	1,133	129	44,000	617	30,387	13,927	34,808	2,933	60,440	14,728	203,102
Umnugobi	89	20	7,233	98	3,747	1,583	6,398	123	6,426	2,054	27,771
Uvs	26	7	867	22	410	228	403	36	1,728	222	3,949
Uvurkhangai	211	44	5,009	79	3,844	1,349	3,320	88	10,765	1,463	26,172
Zavkhan	70	11	1,623	17	924	403	749	75	2,924	416	7,212
?	137	10	673	51	279	144	304	260	776	182	2,816
TOTAL	**3,120**	**360**	**135,765**	**1,688**	**77,729**	**32,833**	**75,568**	**5,199**	**160,445**	**35,492**	**528,199**