DTM
MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs April 15th, 2020)

SITREP # 48
16-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

1,809,081
cumulative movements tracked by DTM flow monitoring points (FMP)

44,852 ▲
Movements tracked in the past 24 hrs

10,196 (R)
43,389 (N)
Average movement per day during restricted (R) and unrestricted (N) periods

DEMOGRAPHICS

XX% - Overall
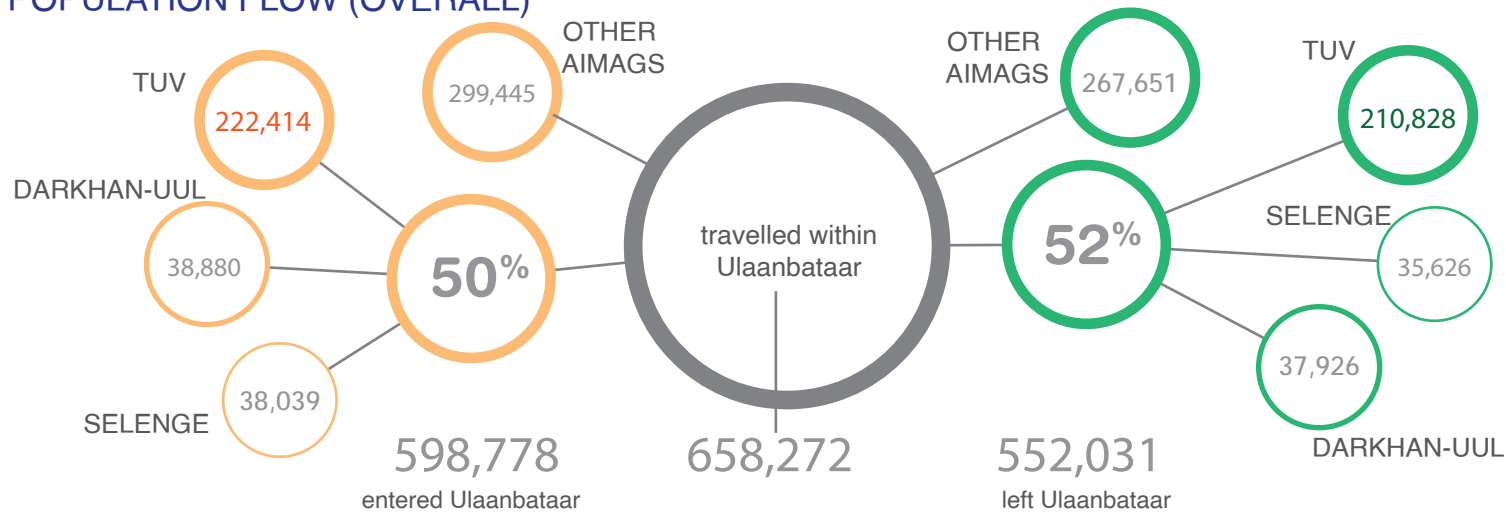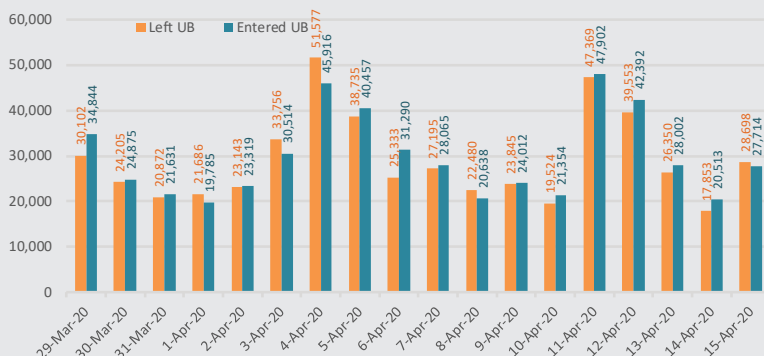XX% - Past 24 hrs

51% / **55%** MEN
31% / **31%** WOMEN
10% / **8%** BOYS
8% / **6%** GIRLS

POPULATION FLOW (OVERALL)

TUV **222,414**
OTHER AIMAGS 299,445
DARKHAN-UUL 38,880
SELENGE 38,039

50%

travelled within Ulaanbataar

OTHER AIMAGS 267,651
TUV **210,828**
SELENGE 35,626
DARKHAN-UUL 37,926

52%

598,778
entered Ulaanbataar

658,272

552,031
left Ulaanbataar

MOVEMENT TRENDS

MOVEMENT THROUGH CHECKPOINTS

Checkpoint	OVERALL			15-Apr-20		
	TOTAL	IN	OUT	TOTAL	IN	OUT
Baruunturuun	357,925	171,068	186,857	3,834	1,376	2,458
Ulziit	274,911	141,798	133,113	5,009	2,586	2,423
Nalaikh	542,805	273,210	269,595	11,107	6,295	4,812
Morin	389,198	194,755	194,443	7,516	3,764	3,752
Emeelt	611,891	330,897	280,994	23,900	11,297	12,603
Gunt	290,128	145,120	145,008	5,046	2,396	2,650
Total	2,466,858	1,256,848	1,210,010	56,412	27,714	28,698

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MOVEMENT IN TO ULAANBATAAR
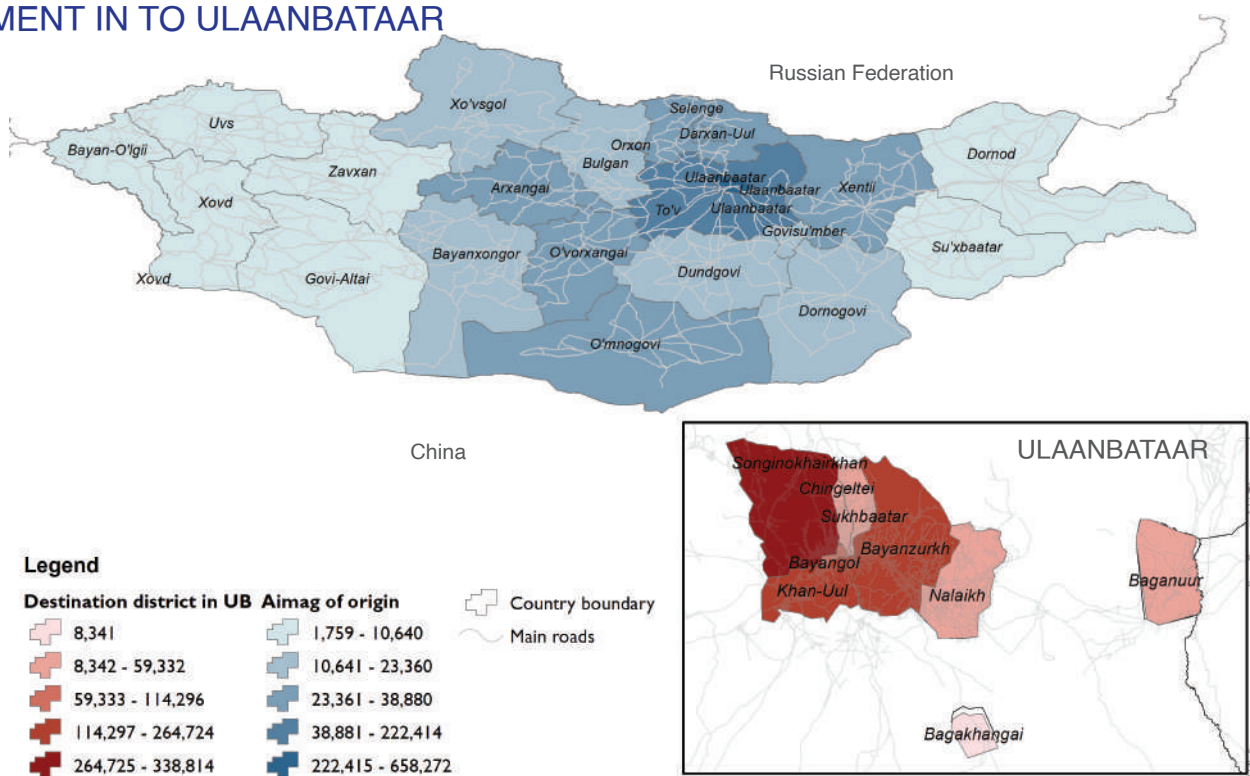
Russian Federation

China

ULAANBATAAR

Legend

Destination district in UB
- 8,341
- 8,342 - 59,332
- 59,333 - 114,296
- 114,297 - 264,724
- 264,725 - 338,814

Aimag of origin
- 1,759 - 10,640
- 10,641 - 23,360
- 23,361 - 38,880
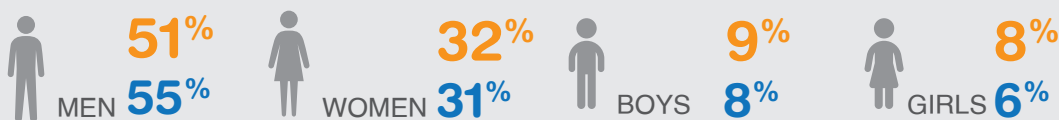- 38,881 - 222,414
- 222,415 - 658,272

- Country boundary
- Main roads

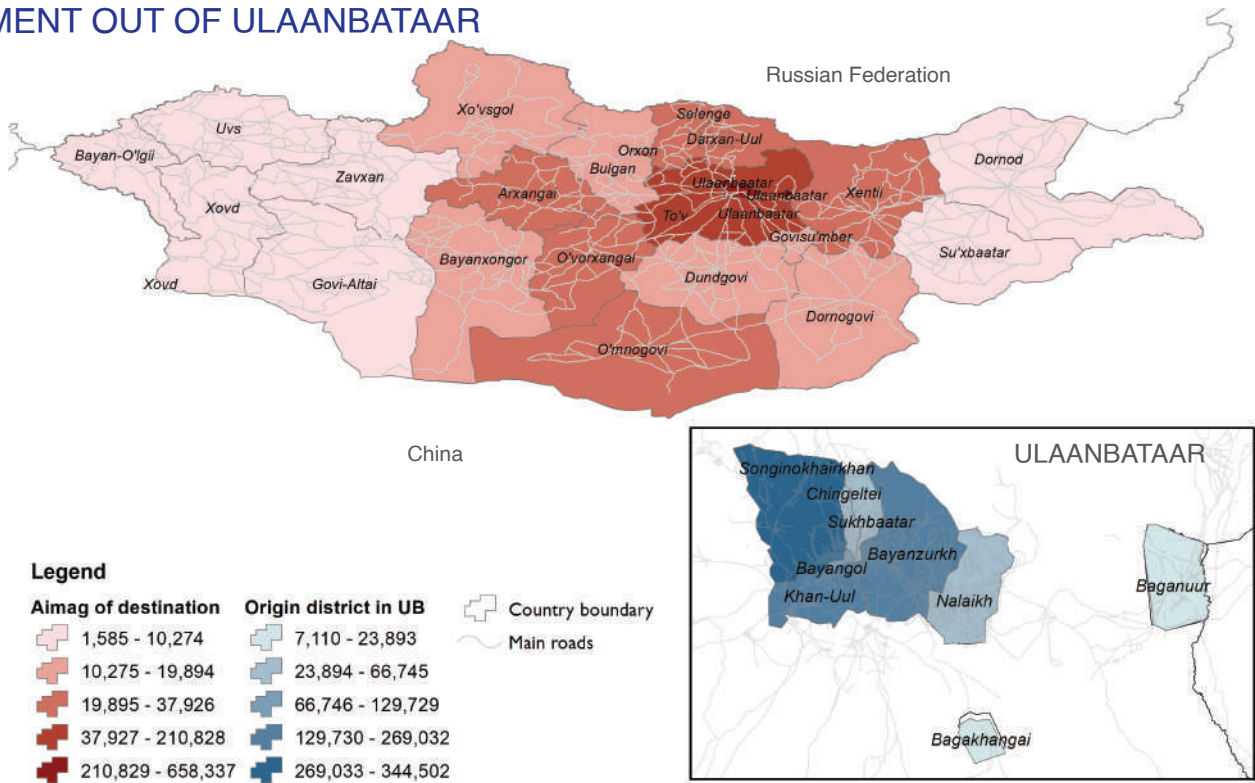The boundaries and names shown and the designation used on this map do not imply official endorsement or acceptance

DEMOGRAPHICS

XX% - Overall
XX% - Past 24 hrs

	Overall	Past 24 hrs
MEN	51%	55%
WOMEN	32%	31%
BOYS	9%	8%
GIRLS	8%	6%

of destination	?	Bagakhangai	Baganuur	Bayangol	Bayanzurkh	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Ulaanbaatar	2,612	6,644	22,523	40,235	85,402	27,633	191,258	51,160	203,250	27,555	658,272
Arkhangai	135	12	55	5,285	6,640	2,153	3,372	146	10,293	1,852	29,943
Bayankhongor	71	10	48	2,027	3,008	988	1,532	126	5,526	1,038	14,374
Bayan-Ulgii	14	-	-	219	404	76	95	19	764	168	1,759
Bulgan	168	22	42	4,305	5,588	1,613	2,996	96	7,139	1,391	23,360
Darkhan-Uul	223	34	108	6,080	7,556	1,991	4,290	299	15,886	2,413	38,880
Dornod	83	17	10	1,143	5,062	746	1,146	56	1,245	918	10,426
Dornogobi	100	21	63	3,041	6,884	885	2,119	177	2,366	1,287	16,943
Dundgobi	89	19	28	2,886	6,566	1,056	3,449	52	3,490	1,475	19,110
Gobi-Altai	39	11	31	833	1,503	379	643	29	2,579	407	6,454
Gobisumber	65	9	62	1,919	6,569	594	1,334	129	1,285	979	12,945
Khentii	107	8	22	2,495	14,586	1,406	2,370	181	2,477	2,011	25,663
Khovd	10	-	12	722	1,287	296	719	43	2,688	238	6,015
Khuvsgul	83	35	85	2,739	3,675	988	1,866	78	5,377	1,128	16,054
Orkhon	120	4	103	5,248	6,054	1,343	3,880	185	8,063	1,905	26,905
Selenge	144	34	160	8,431	8,901	2,650	4,569	334	10,012	2,804	38,039
Sukhbaatar	58	19	26	829	4,926	424	694	65	790	667	8,498
Tuv	1,057	188	628	34,043	48,000	15,464	39,219	3,654	63,825	16,336	222,414
Umnugobi	125	7	63	3,579	6,530	1,205	6,326	126	6,053	1,717	25,731
Uvurkhangai	159	53	92	5,309	7,369	2,065	4,547	187	13,267	1,893	34,941
Zavkhan	63	14	23	1,723	2,784	598	1,235	59	3,339	802	10,640
Uvs	28	5	21	827	1,674	380	681	89	2,776	373	6,854
?	59	8	32	384	785	108	396	188	631	239	2,830
TOTAL	**5,612**	**7,174**	**24,237**	**134,302**	**241,753**	**65,041**	**278,736**	**57,478**	**373,121**	**69,596**	**1,257,050**

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MOVEMENT OUT OF ULAANBATAAR

Russian Federation

China

ULAANBATAAR

Legend

Aimag of destination
- 1,585 - 10,274
- 10,275 - 19,894
- 19,895 - 37,926
- 37,927 - 210,828
- 210,829 - 658,337

Origin district in UB
- 7,110 - 23,893
- 23,894 - 66,745
- 66,746 - 129,729
- 129,730 - 269,032
- 269,033 - 344,502

- 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	53%	31%	9%	6%

UB District of origin / Aimag of destination	?	Bagakhangai	Bayanzurkh	Baganuur	Bayangol	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Arkhangai	323	35	5,094	49	3,757	1,712	2,553	151	9,048	1,492	24,214
Bayankhongor	89	21	2,065	78	1,628	754	1,326	78	5,127	700	11,866
Bayan-Ulgii	-	-	391	-	284	69	110	10	619	102	1,585
Bulgan	214	1	4,453	42	3,340	1,455	2,399	43	6,784	1,163	19,894
Darkhan-Uul	117	13	6,288	97	5,131	1,868	3,771	230	18,307	2,104	37,926
Dornod	73	8	5,500	2	1,000	691	1,146	78	1,044	732	10,274
Dornogobi	129	5	7,586	101	3,065	1,133	2,407	132	2,377	1,225	18,160
Dundgobi	82	17	6,408	70	2,434	1,070	3,461	88	3,852	1,480	18,962
Gobi-Altai	31	9	998	25	423	243	507	59	2,460	243	4,998
Gobisumber	84	6	6,098	51	1,593	628	1,090	94	1,195	722	11,561
Khentii	138	12	14,119	27	2,288	1,237	1,881	162	2,056	1,771	23,691
Khovd	24	-	1,006	9	518	170	517	49	2,295	237	4,825
Khuvsgul	70	7	2,623	16	1,640	753	1,446	58	5,405	730	12,748
Orkhon	124	9	4,836	102	4,548	1,356	3,291	146	9,038	1,428	24,878
Selenge	75	19	7,585	162	7,723	2,316	4,161	403	10,795	2,387	35,626
Sukhbaatar	59	6	4,985	14	581	420	718	45	829	692	8,349
Tuv	1,198	135	45,458	651	31,377	14,522	36,024	3,265	62,871	15,327	210,828
Umnugobi	89	20	7,529	101	3,914	1,658	6,753	136	6,614	2,175	28,989
Uvs	26	7	919	25	456	256	441	39	1,854	249	4,272
Uvurkhangai	211	44	5,263	85	4,042	1,437	3,501	92	11,492	1,524	27,691
Zavkhan	70	11	1,744	19	1,020	418	816	75	3,112	432	7,717
?	160	13	696	52	298	150	325	284	805	194	2,977
TOTAL	3,386	398	141,644	1,778	81,060	34,316	78,644	5,717	167,979	37,109	552,031