DTM
MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs April 6th, 2020)

SITREP # 39
07-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

1,425,044
cumulative movements tracked by DTM flow monitoring points (FMP)

42,184 ↓
Movements tracked in the past 24 hrs

10,196 (R)
43,612 (N)
Average movement per day during restricted (R) and unrestricted (N) periods

DEMOGRAPHICS

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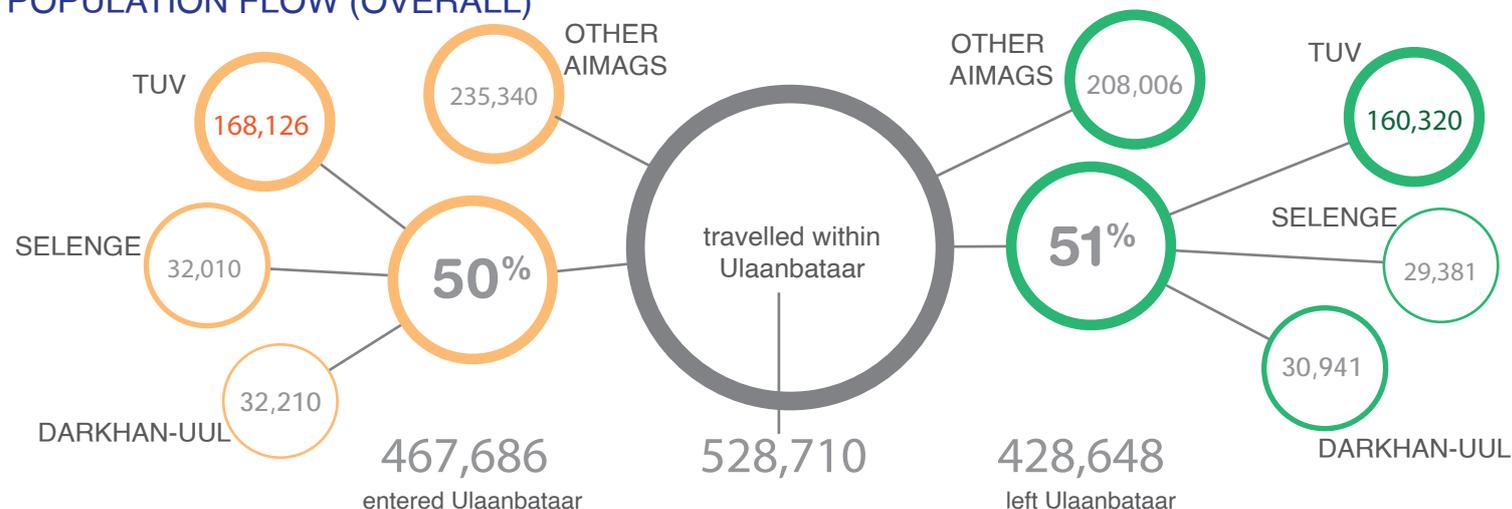XX% - **Past 24 hrs**

MEN **51%** / **52%**
WOMEN **31%** / **31%**
BOYS **10%** / **10%**
GIRLS **8%** / **7%**

POPULATION FLOW (OVERALL)

TUV 168,126
OTHER AIMAGS 235,340
SELENGE 32,010
DARKHAN-UUL 32,210

50%

travelled within Ulaanbataar
528,710

OTHER AIMAGS 208,006
TUV 160,320
SELENGE 29,381
DARKHAN-UUL 30,941

51%

467,686 entered Ulaanbataar

428,648 left Ulaanbataar

MOVEMENT TRENDS

Left UB | Entered UB

Date	Left UB	Entered UB
20-Mar-20	29,650	25,067
21-Mar-20	25,625	20,722
22-Mar-20	35,371	33,652
23-Mar-20	26,381	25,308
24-Mar-20	26,635	28,625
25-Mar-20	23,864	24,871
26-Mar-20	30,182	29,001
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	25,333	31,290

MOVEMENT THROUGH CHECKPOINTS

Checkpoint	OVERALL			6-Apr-20		
	TOTAL	IN	OUT	TOTAL	IN	OUT
Emeelt	311,452	150,134	161,318	2,080	1,277	803
Baruunturuun	207,564	105,399	102,165	4,084	2,523	1,561
Nalaikh	435,520	218,145	217,375	14,013	6,903	7,110
Morin	304,117	152,248	151,869	5,771	2,892	2,879
Ulziit	487,824	266,492	221,332	23,023	13,808	9,215
Gunt	206,922	103,838	103,084	7,652	3,887	3,765
Total	1,953,399	996,256	957,143	56,623	31,290	25,333

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MOVEMENT IN TO ULAANBATAAR
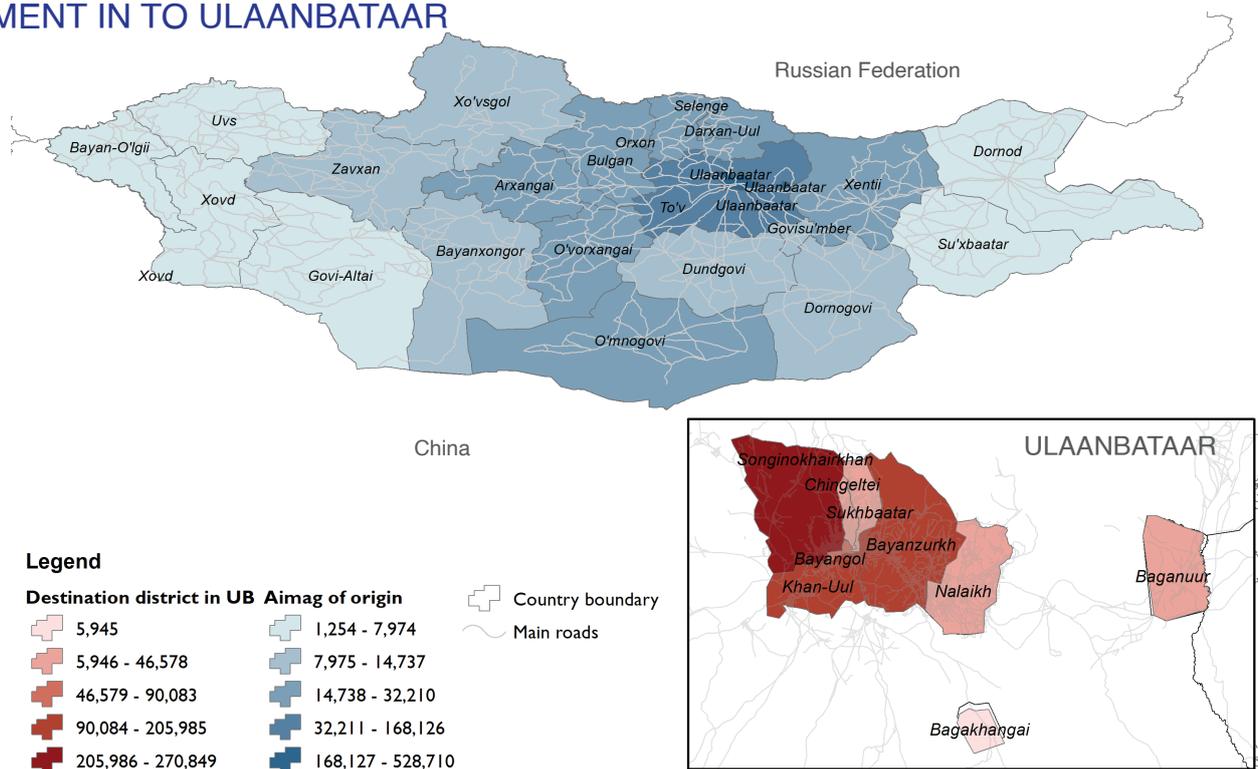
Russian Federation

China

ULAANBATAAR

Legend

Destination district in UB
- 5,945
- 5,946 - 46,578
- 46,579 - 90,083
- 90,084 - 205,985
- 205,986 - 270,849

Aimag of origin
- 1,254 - 7,974
- 7,975 - 14,737
- 14,738 - 32,210
- 32,211 - 168,126
- 168,127 - 528,710

- Country boundary
- Main roads

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

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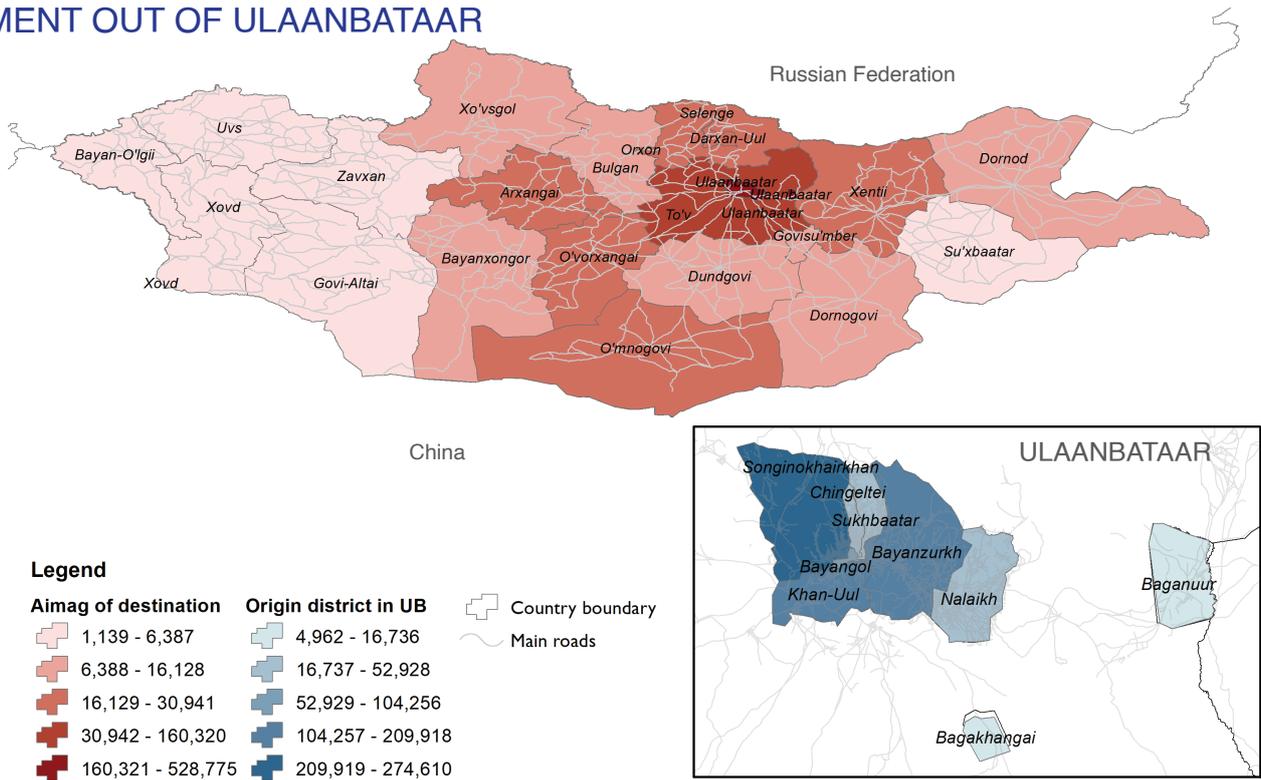XX% - **Overall**
XX% - **Past 24 hrs**

	MEN	WOMEN	BOYS	GIRLS
Overall	51%	32%	9%	8%
Past 24 hrs	52%	31%	10%	7%

of destination	?	Bagakhangai	Baganuur	Bayangol	Bayanzurkh	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Ulaanbaatar	1,769	4,635	15,825	32,639	72,162	22,162	151,145	44,334	161,670	22,369	528,710
Arkhangai	110	12	49	4,367	5,555	1,768	2,708	132	8,588	1,549	24,838
Bayankhongor	54	10	38	1,603	2,535	800	1,183	93	4,329	864	11,509
Bayan-Ulgii	10	-	-	170	303	47	70	10	524	120	1,254
Bulgan	153	18	35	3,472	4,607	1,368	2,439	68	5,720	1,151	19,031
Darkhan-Uul	197	34	97	5,150	6,250	1,706	3,605	279	12,872	2,020	32,210
Dornod	57	5	10	893	3,862	581	859	33	973	701	7,974
Dornogobi	52	14	27	2,252	4,972	621	1,499	73	1,799	953	12,262
Dundgobi	65	3	17	2,238	5,028	810	2,689	17	2,728	1,142	14,737
Gobi-Altai	23	11	31	658	1,227	315	486	25	1,980	352	5,108
Gobisumber	28	5	30	1,538	4,875	489	961	67	979	756	9,728
Khentii	60	6	20	1,973	10,860	1,172	1,791	61	1,926	1,467	19,336
Khovd	5	-	12	566	1,038	252	585	40	1,921	147	4,566
Khuvsgul	61	25	71	2,374	3,055	776	1,567	62	4,332	887	13,210
Orkhon	95	4	70	4,143	4,986	1,139	3,159	169	6,573	1,589	21,927
Selenge	120	26	112	7,029	7,444	2,237	3,759	300	8,646	2,337	32,010
Sukhbaatar	42	7	23	612	3,615	297	485	45	573	483	6,182
Tuv	771	133	367	26,571	36,097	11,799	29,057	1,383	49,485	12,463	168,126
Umnugobi	90	5	34	2,703	4,840	921	4,643	65	4,614	1,128	19,043
Uvurkhangai	129	51	70	4,415	5,878	1,795	3,749	157	10,359	1,549	28,152
Zavkhan	44	10	12	1,370	2,281	509	1,009	45	2,749	693	8,722
Uvs	18	5	18	637	1,361	321	576	89	2,203	296	5,524
?	34	4	14	292	629	98	317	151	536	162	2,237
TOTAL	**3,987**	**5,023**	**16,982**	**107,665**	**193,460**	**51,983**	**218,341**	**47,698**	**296,079**	**55,178**	**996,396**

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MOVEMENT OUT OF ULAANBATAAR

Russian Federation

China

ULAANBATAAR

Legend

Aimag of destination
- 1,139 - 6,387
- 6,388 - 16,128
- 16,129 - 30,941
- 30,942 - 160,320
- 160,321 - 528,775

Origin district in UB
- 4,962 - 16,736
- 16,737 - 52,928
- 52,929 - 104,256
- 104,257 - 209,918
- 209,919 - 274,610

- Country boundary
- Main roads

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DEMOGRAPHICS
XX% - Overall
XX% - Past 24 hrs

| | 51% / 51% | | 30% / 31% | | 10% / 10% | | 9% / 8% |

Aimag of destination \ UB District of origin	?	Bagakhangai	Bayanzurkh	Baganuur	Bayangol	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Arkhangai	293	8	4,030	36	3,010	1,374	2,059	122	7,231	1,210	19,373
Bayankhongor	85	3	1,483	68	1,197	566	978	60	3,913	575	8,928
Bayan-Ulgii	-	-	296	-	202	43	75	1	455	67	1,139
Bulgan	197	1	3,505	23	2,732	1,276	1,945	25	5,471	953	16,128
Darkhan-Uul	111	13	5,162	66	4,247	1,541	3,117	214	14,799	1,671	30,941
Dornod	46	8	4,328	2	749	586	901	30	833	571	8,054
Dornogobi	51	5	6,021	49	2,327	907	1,795	43	1,927	907	14,032
Dundgobi	59	17	4,990	42	1,895	893	2,675	40	2,976	1,169	14,756
Gobi-Altai	31	9	765	18	315	206	391	43	1,863	185	3,826
Gobisumber	34	-	4,635	16	1,185	522	865	54	1,004	585	8,900
Khentii	90	8	10,791	19	1,789	1,010	1,423	47	1,677	1,321	18,175
Khovd	11	-	763	7	397	133	379	38	1,604	166	3,498
Khuvsgul	58	3	1,972	16	1,211	513	1,131	52	4,028	538	9,522
Orkhon	113	9	3,855	85	3,627	1,127	2,681	129	7,271	1,217	20,114
Selenge	64	15	6,268	129	6,200	1,899	3,442	353	9,074	1,937	29,381
Sukhbaatar	28	6	3,707	2	459	348	567	20	679	571	6,387
Tuv	966	84	34,119	424	24,234	11,033	27,218	1,422	49,238	11,582	160,320
Umnugobi	56	15	5,853	80	3,051	1,285	5,367	105	5,506	1,797	23,115
Uvs	26	7	655	18	297	195	326	29	1,306	172	3,031
Uvurkhangai	208	24	4,090	53	3,190	1,128	2,687	62	8,821	1,244	21,507
Zavkhan	70	5	1,201	14	730	325	585	52	2,280	322	5,584
?	73	1	450	37	193	115	195	210	553	110	1,937
TOTAL	2,670	241	108,939	1,204	63,237	27,025	60,802	3,151	132,509	28,870	428,648