DTM
MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs March 17th, 2020)

SITREP # 20
18-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

577,627
cumulative movements tracked by DTM flow monitoring points (FMP)

55,037 ▼
Movements tracked in the past 24 hrs

10,196 (R)
47,485 (N)
Average movement per day during restricted (R) and unrestricted (N) periods

DEMOGRAPHICS

XX% - Overall
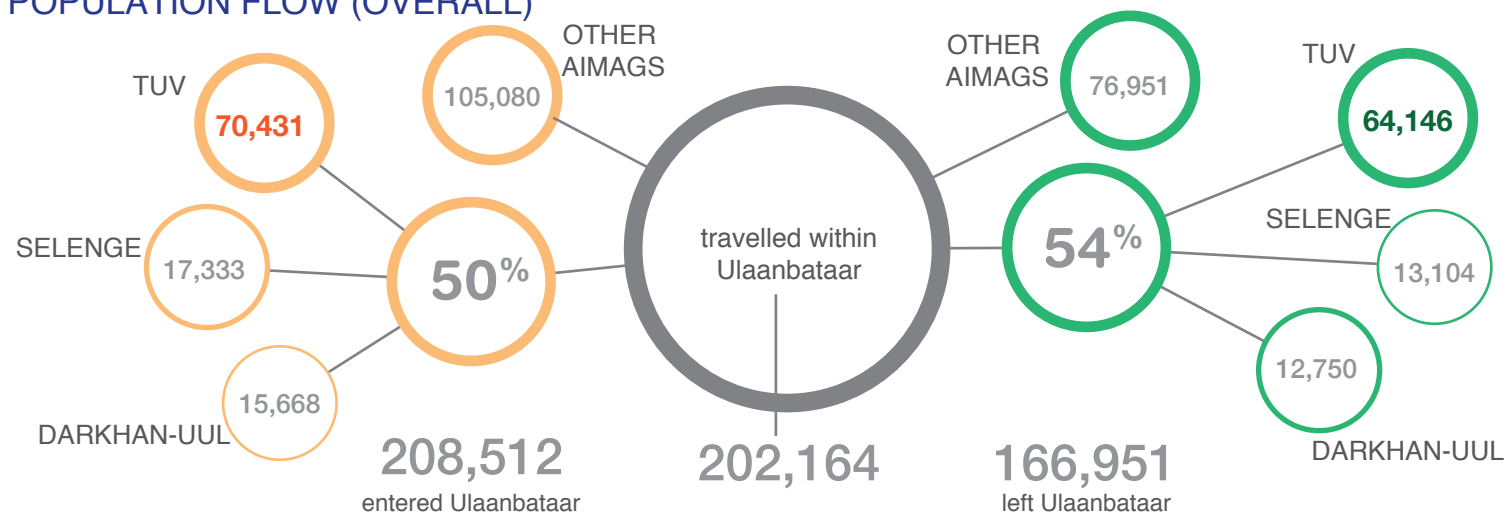XX% - Past 24 hrs

MEN **50%** / **54%**
WOMEN **31%** / **30%**
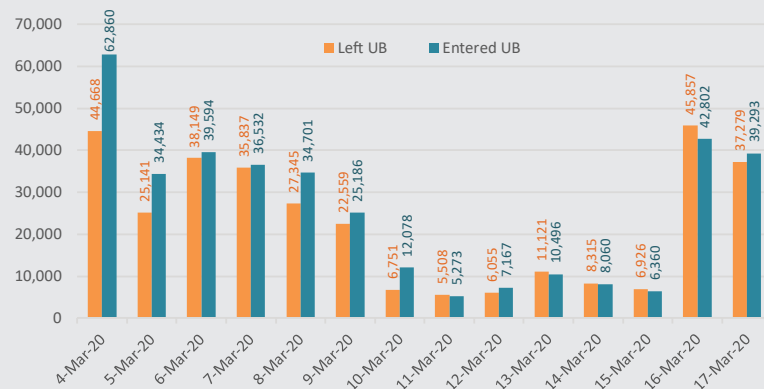BOYS **10%** / **9%**
GIRLS **9%** / **7%**

POPULATION FLOW (OVERALL)

TUV **70,431**
OTHER AIMAGS 105,080
SELENGE 17,333
DARKHAN-UUL 15,668
50%

travelled within Ulaanbataar
202,164

OTHER AIMAGS 76,951
TUV **64,146**
SELENGE 13,104
DARKHAN-UUL 12,750
54%

208,512 entered Ulaanbataar

166,951 left Ulaanbataar

MOVEMENT TRENDS

Legend: ■ Left UB ■ Entered UB

Date	Left UB	Entered UB
4-Mar-20	44,668	62,860
5-Mar-20	25,141	34,434
6-Mar-20	38,149	39,594
7-Mar-20	35,837	36,532
8-Mar-20	27,345	34,701
9-Mar-20	22,559	25,186
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

MOVEMENT THROUGH CHECKPOINTS

Checkpoint	OVERALL			17-Mar-20		
	TOTAL	IN	OUT	TOTAL	IN	OUT
Emeelt	227,153	137,111	90,042	30,703	16,609	14,094
Baruunturuun	153,965	76,862	77,103	7,450	3,570	3,880
Nalaikh	136,491	69,669	66,822	11,723	6,211	5,512
Morin	106,983	53,657	53,326	8,938	4,435	4,503
Ulziit	89,721	43,861	45,860	8,695	3,882	4,813
Gunt	75,215	39,438	35,777	9,063	4,586	4,477
Total	789,528	420,598	368,930	76,572	39,293	37,279

DTM

MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs March 17th, 2020)

SITREP # 20
18-Mar-2020
12:00 (GMT+8)

MOVEMENT IN TO ULAANBATAAR
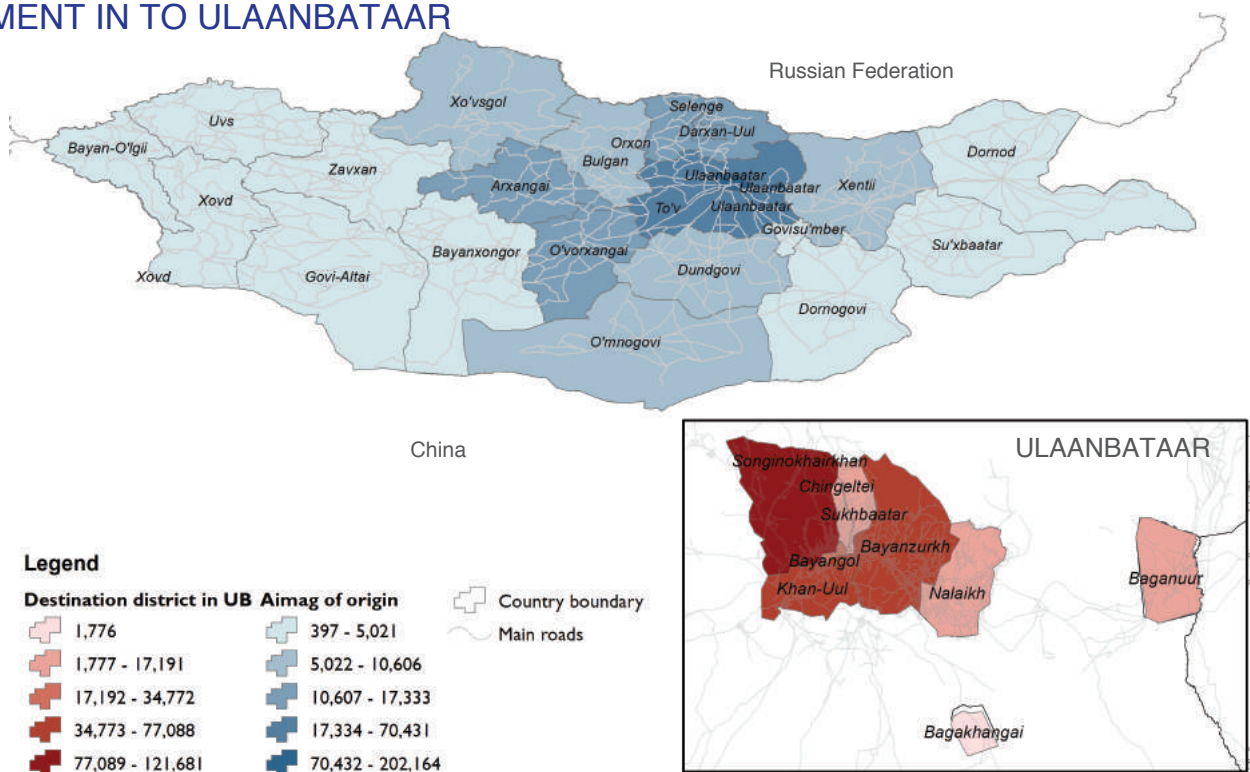
Russian Federation

China

ULAANBATAAR

Legend

Destination district in UB
- 1,776
- 1,777 - 17,191
- 17,192 - 34,772
- 34,773 - 77,088
- 77,089 - 121,681

Aimag of origin
- 397 - 5,021
- 5,022 - 10,606
- 10,607 - 17,333
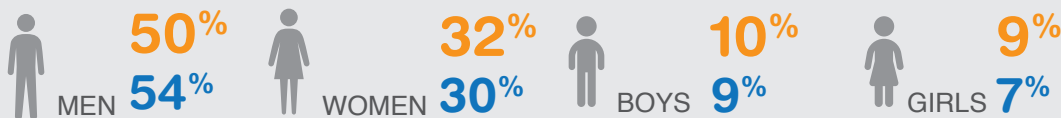- 17,334 - 70,431
- 70,432 - 202,164

Country boundary
Main roads

The boundaries and names shown and the designation used on this map do not imply official endorsement or acceptance
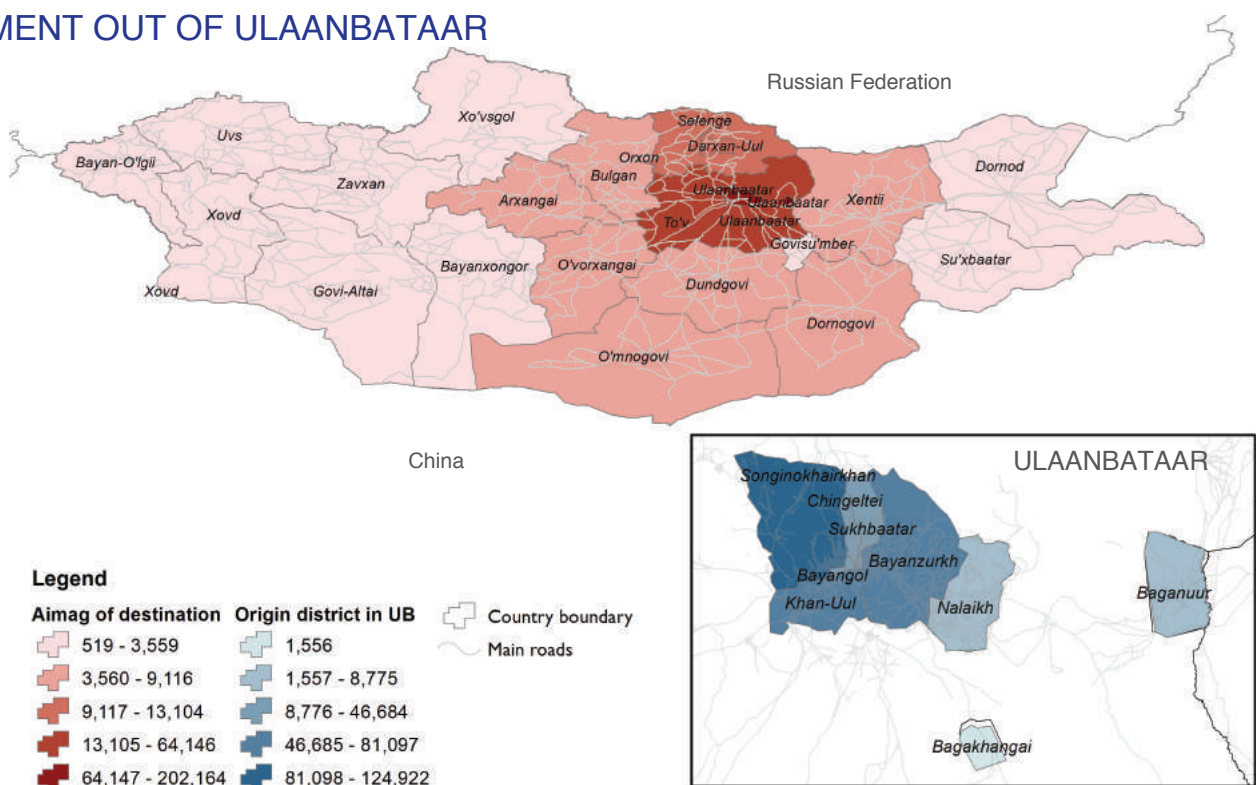
DEMOGRAPHICS
XX% - **Overall**
XX% - **Past 24 hrs**

	MEN	WOMEN	BOYS	GIRLS
Overall	50%	32%	10%	9%
Past 24 hrs	54%	30%	9%	7%

Aimag of origin \ UB district of destination	?	Bagakhangai	Baganuur	Bayangol	Bayanzurkh	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Ulaanbaatar	559	1,396	5,735	13,279	23,133	8,488	57,049	10,270	73,978	8,277	202,164
Arkhangai	33	5	24	2,358	3,090	1,007	1,354	67	4,614	846	13,398
Bayankhongor	-	-	-	41	44	24	18	5	467	9	608
Bayan-Ulgii	4	-	-	46	102	20	21	6	152	53	404
Bulgan	53	18	24	1,874	2,422	745	1,305	46	2,889	664	10,040
Darkhan-Uul	40	18	51	2,728	3,329	970	1,889	197	5,355	1,091	15,668
Dornod	7	3	-	396	1,824	277	340	7	525	407	3,786
Dornogobi	20	6	3	930	1,992	251	519	13	673	416	4,823
Dundgobi	21	-	5	991	2,009	428	1,210	4	1,337	514	6,519
Gobi-Altai	4	11	29	473	794	194	273	11	1,009	220	3,018
Gobisumber	16	3	12	628	2,038	208	406	5	401	374	4,091
Khentii	13	3	11	934	5,023	585	710	8	805	808	8,900
Khovd	-	-	-	32	30	21	69	-	243	2	397
Khuvsgul	24	16	49	1,446	1,825	500	823	37	2,118	540	7,378
Orkhon	41	-	13	1,903	2,634	602	1,511	104	2,914	884	10,606
Selenge	69	8	69	3,743	4,086	1,299	2,009	166	4,512	1,372	17,333
Sukhbaatar	8	-	14	324	1,852	133	214	15	271	239	3,070
Tuv	243	57	176	11,380	14,706	5,324	11,109	286	21,947	5,203	70,431
Umnugobi	21	2	20	1,000	1,624	286	1,510	26	1,539	403	6,431
Uvurkhangai	67	19	62	2,439	3,265	1,056	2,126	94	5,117	836	15,081
Zavkhan	18	-	4	887	1,447	318	631	24	1,329	363	5,021
?	18	3	-	125	292	36	111	34	200	100	919
TOTAL	1,279	1,568	6,301	47,957	77,561	22,772	85,207	11,425	132,395	23,621	410,086

DTM
MONGOLIA : COVID-19 PREPAREDNESS
FLOW MONITORING AT MAJOR CHECKPOINTS OF ULAANBAATAR
(Data collected: 08:00 hrs Feb 27th - 24:00 hrs March 17th, 2020)

SITREP # 20
18-Mar-2020
12:00 (GMT+8)

MOVEMENT OUT OF ULAANBATAAR

Russian Federation

Xo'vsgol
Uvs
Bayan-O'lgii
Zavxan
Arxangai
Selenge
Darxan-Uul
Orxon
Bulgan
Ulaanbaatar
To'v
Xentii
Dornod
Govisu'mber
Su'xbaatar
Xovd
Govi-Altai
Bayanxongor
O'vorxangai
Dundgovi
Dornogovi
O'mnogovi

China

Legend

Aimag of destination
- 519 - 3,559
- 3,560 - 9,116
- 9,117 - 13,104
- 13,105 - 64,146
- 64,147 - 202,164

Origin district in UB
- 1,556
- 1,557 - 8,775
- 8,776 - 46,684
- 46,685 - 81,097
- 81,098 - 124,922

- Country boundary
- Main roads

ULAANBATAAR

Songinokhairkhan
Chingeltei
Sukhbaatar
Bayangol
Bayanzurkh
Khan-Uul
Nalaikh
Baganuur
Bagakhangai

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
	51%	54%
	29%	29%
	11%	9%
	9%	8%

UB District of origin / Aimag of destination	?	Bagakhangai	Bayanzurkh	Baganuur	Bayangol	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Arkhangai	95	-	1,287	25	939	505	548	35	2,604	362	6,400
Bayankhongor	58	3	496	50	400	171	352	12	1,277	172	2,991
Bayan-Ulgii	-	-	143	-	119	17	24	-	194	22	519
Bulgan	73	1	1,244	18	941	431	649	20	2,033	289	5,699
Darkhan-Uul	30	-	2,265	40	1,867	695	1,207	120	5,787	739	12,750
Dornod	11	-	1,860	2	297	274	382	9	448	276	3,559
Dornogobi	41	-	2,702	17	1,029	435	637	1	785	402	6,049
Dundgobi	27	-	1,610	5	689	321	983	21	1,136	393	5,185
Gobi-Altai	21	9	180	17	128	66	127	6	633	75	1,262
Gobisumber	8	-	1,795	13	452	197	294	-	409	252	3,420
Khentii	19	4	4,396	6	828	475	555	2	687	589	7,561
Khovd	5	-	266	-	99	39	152	27	505	59	1,152
Khuvsgul	18	-	637	6	424	182	344	4	1,132	187	2,934
Orkhon	35	6	1,706	46	1,314	536	1,071	63	3,040	533	8,350
Selenge	15	5	2,859	80	2,737	854	1,557	215	3,939	843	13,104
Sukhbaatar	10	-	1,418	2	182	117	198	-	190	238	2,355
Tuv	322	44	13,138	146	9,610	4,715	10,842	261	20,601	4,467	64,146
Umnugobi	35	7	2,315	39	1,177	517	1,881	55	2,380	710	9,116
Uvs	15	-	189	-	77	61	98	25	389	44	898
Uvurkhangai	82	4	1,537	18	1,071	436	861	26	2,805	423	7,263
Zavkhan	23	5	414	12	191	82	165	7	635	89	1,623
?	33	-	93	13	63	41	58	27	255	32	615
TOTAL	976	88	42,550	555	24,634	11,167	22,985	936	51,864	11,196	166,951