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

SITREP # 11
09-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 National 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

359,002
cumulative movements tracked by DTM flow monitoring points (FMP)

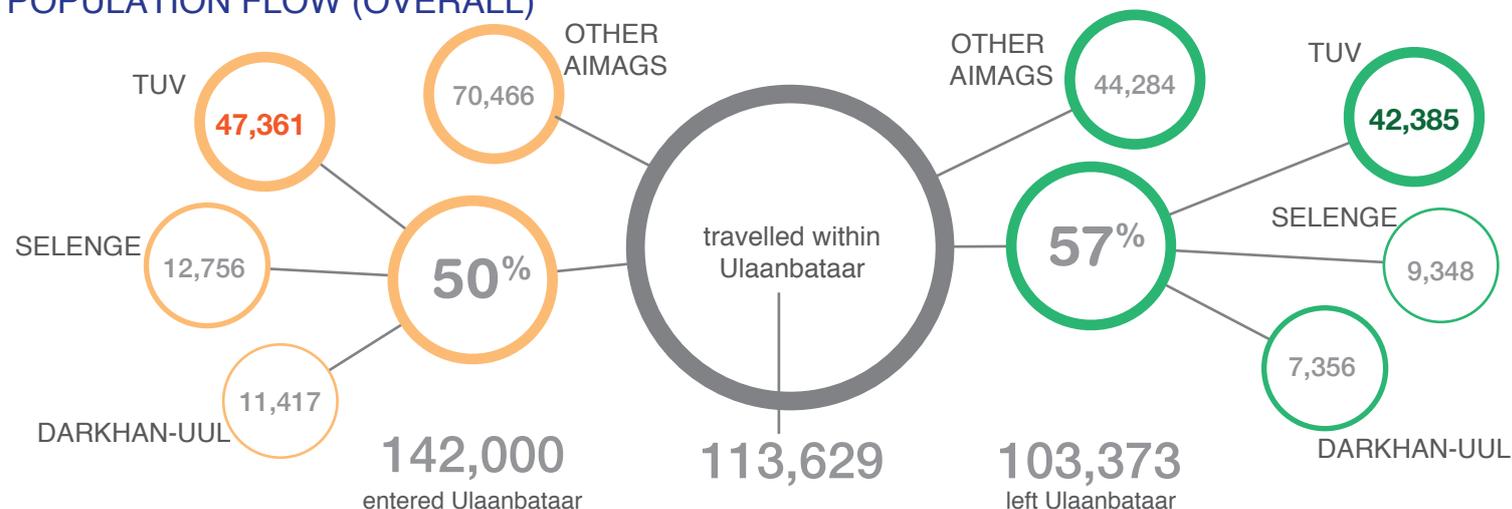**44,849**
Movements tracked in the past 24 hrs

270.290
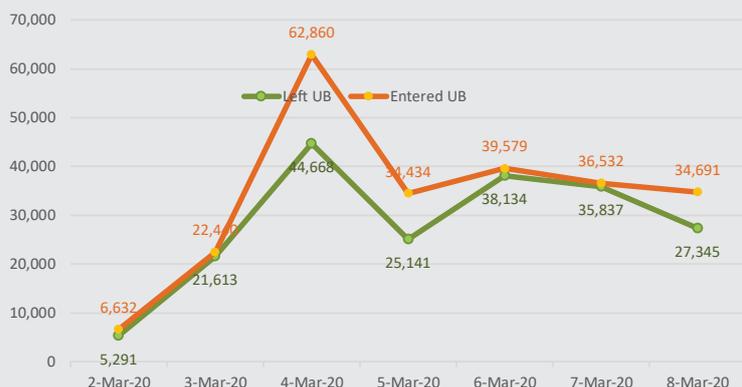Movements tracked from the day of lifting of movement restrictions

DEMOGRAPHICS

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

	MEN	WOMEN	BOYS	GIRLS
Overall	47%	31%	11%	10%
Past 24 hrs	46%	31%	12%	11%

POPULATION FLOW (OVERALL)

TUV **47,361**
OTHER AIMAGS 70,466
SELENGE 12,756
DARKHAN-UUL 11,417

50%

travelled within Ulaanbataar

57%

OTHER AIMAGS 44,284
TUV **42,385**
SELENGE 9,348
DARKHAN-UUL 7,356

142,000 entered Ulaanbataar

113,629

103,373 left Ulaanbataar

MOVEMENT TRENDS

Left UB — Entered UB

Entered UB: 6,632 (2-Mar-20), 22,440 (3-Mar-20), 62,860 (4-Mar-20), 34,434 (5-Mar-20), 39,579 (6-Mar-20), 36,532 (7-Mar-20), 34,691 (8-Mar-20)

Left UB: 5,291 (2-Mar-20), 21,613 (3-Mar-20), 44,668 (4-Mar-20), 25,141 (5-Mar-20), 38,134 (6-Mar-20), 35,837 (7-Mar-20), 27,345 (8-Mar-20)

MOVEMENT THROUGH CHECKPOINTS

Checkpoint	OVERALL			5-Mar-20		
	TOTAL	IN	OUT	TOTAL	IN	OUT
Emeelt	136,211	87,953	48,258	17,014	10,637	6,377
Baruuntu	107,853	53,987	53,866	17,335	9,335	8,000
Nalaikh	78,047	40,215	37,832	6,846	3,947	2,899
Morin	56,133	28,280	27,853	7,679	3,857	3,822
Gunt	52,230	27,488	24,742	7,055	3,787	3,268
Ulziit	51,928	25,935	25,993	6,107	3,128	2,979
Total	482,402	263,858	218,544	62,036	34,691	27,345

Please note that because of the intense movement this data might not reflect the total number of vehicles which passed the checkpoints in the report timeframe. The trends outlined in the report are valid and provide important insights for preparedness and response to COVID-19.

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MOVEMENT IN TO ULAANBATAAR

Russian Federation

China

ULAANBATAAR
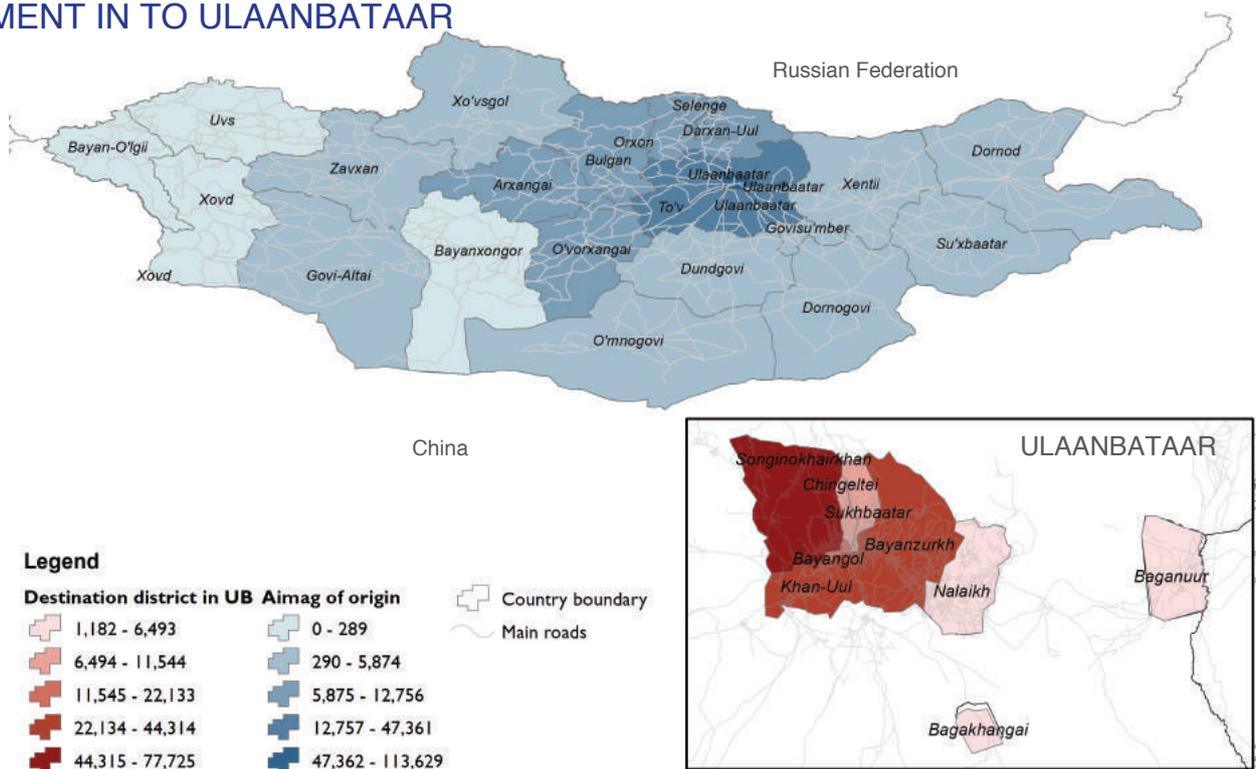
Legend

Destination district in UB
- 1,182 - 6,493
- 6,494 - 11,544
- 11,545 - 22,133
- 22,134 - 44,314
- 44,315 - 77,725

Aimag of origin
- 0 - 289
- 290 - 5,874
- 5,875 - 12,756
- 12,757 - 47,361
- 47,362 - 113,629

- Country boundary
- Main roads

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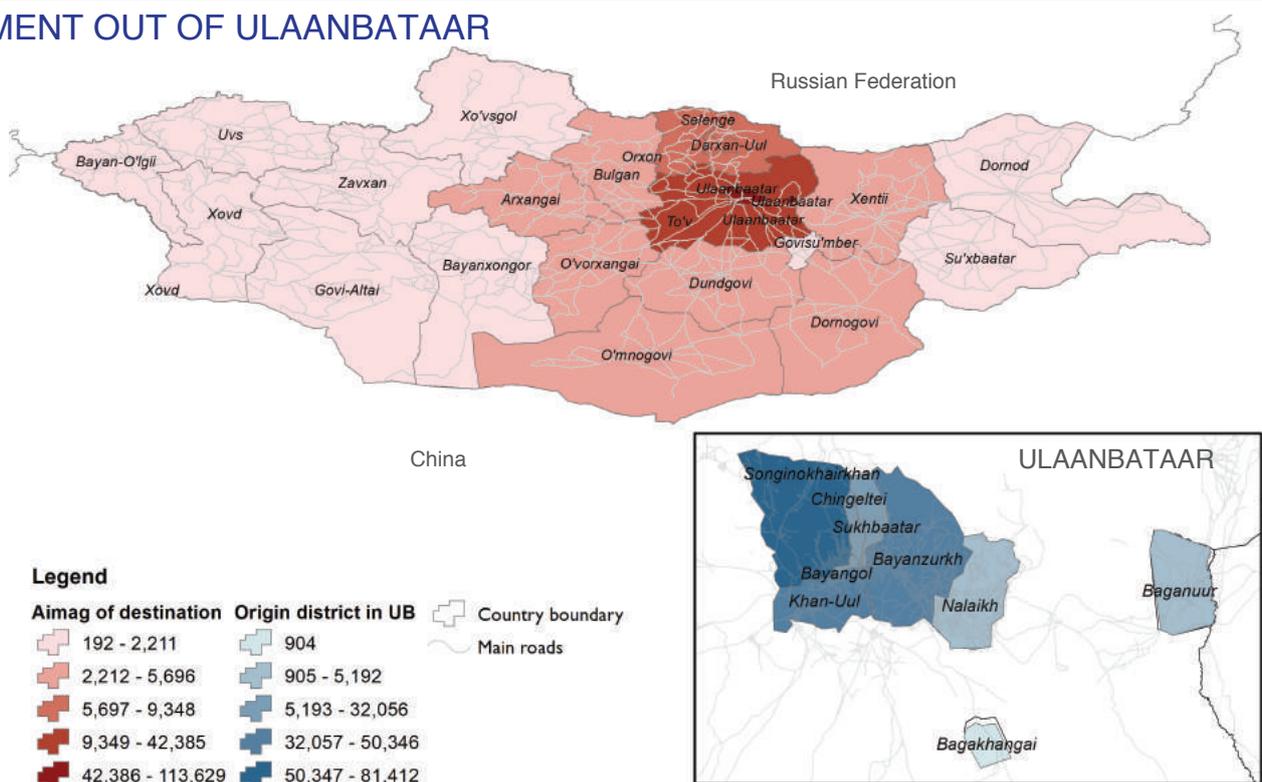
DEMOGRAPHICS
XX% - Overall
XX% - Past 24 hrs

	Overall	Past 24 hrs
MEN	47%	45%
WOMEN	32%	32%
BOYS	11%	12%
GIRLS	10%	11%

Aimag of origin \ UB district of destination	?	Bagakhangai	Baganuur	Bayangol	Bayanzurkh	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Ulaanbaatar	294	794	3,743	8,278	13,229	5,269	29,392	4,120	43,836	4,674	113,629
Arkhangai	26	3	20	1,775	2,401	737	1,034	51	3,052	673	9,772
Bayankhongor	-	-	-	24	32	16	13	5	165	9	264
Bayan-Ulgii	4	-	-	45	91	16	12	6	72	43	289
Bulgan	40	18	19	1,357	1,815	495	913	38	1,957	477	7,129
Darkhan-Uul	28	13	35	1,975	2,630	770	1,401	102	3,632	831	11,417
Dornod	1	3	-	277	1,125	196	202	-	333	272	2,409
Dornogobi	14	-	3	517	1,266	156	274	13	378	271	2,892
Dundgobi	18	-	-	636	1,311	268	849	-	920	318	4,320
Gobi-Altai	4	4	19	275	534	116	191	3	574	155	1,875
Gobisumber	14	3	10	425	1,302	140	276	2	268	275	2,715
Khentii	3	-	11	613	3,324	397	444	4	499	579	5,874
Khovd	-	-	-	25	23	21	15	-	198	2	284
Khuvsgul	12	12	43	1,102	1,386	329	577	16	1,506	422	5,405
Orkhon	22	-	10	1,332	1,946	455	1,136	67	2,060	663	7,691
Selenge	58	7	63	2,775	3,057	1,013	1,414	106	3,219	1,044	12,756
Sukhbaatar	2	-	5	242	1,162	97	124	2	170	154	1,958
Tuv	138	46	156	7,637	10,120	3,654	7,192	226	14,687	3,505	47,361
Umnugobi	12	1	8	518	807	121	758	13	729	191	3,158
Uvurkhangai	44	5	48	1,926	2,359	745	1,619	77	3,399	625	10,847
Zavkhan	10	-	4	566	995	213	442	7	705	253	3,195
?	12	3	-	66	95	6	41	-	121	45	389
TOTAL	756	912	4,197	32,386	51,010	15,230	48,319	4,858	82,480	15,481	255,629

Please note that because of the intense movement this data might not reflect the total number of vehicles which passed the checkpoints in the report timeframe. The trends outlined in the report are valid and provide important insights for preparedness and response to COVID-19.

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
- 192 - 2,211
- 2,212 - 5,696
- 5,697 - 9,348
- 9,349 - 42,385
- 42,386 - 113,629

Origin district in UB
- 904
- 905 - 5,192
- 5,193 - 32,056
- 32,057 - 50,346
- 50,347 - 81,412

Country boundary
Main roads

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DEMOGRAPHICS
XX% - Overall
XX% - Past 24 hrs

	Overall	Past 24 hrs
	49%	50%
	29%	29%
	12%	11%
	10%	10%

Aimag of destination \ UB District of origin	?	Bagakhangai	Bayanzurkh	Baganuur	Bayangol	Chingeltei	Khan-Uul	Nalaikh	Songinokhairkhan	Sukhbaatar	TOTAL
Arkhangai	83	-	665	5	519	316	339	20	1,503	198	3,648
Bayankhongor	53	-	273	41	248	97	204	5	589	74	1,584
Bayan-Ulgii	-	-	77	-	50	-	9	-	36	20	192
Bulgan	73	-	753	12	545	242	401	16	1,091	184	3,317
Darkhan-Uul	24	-	1,562	35	1,182	430	799	91	2,718	515	7,356
Dornod	5	-	933	-	206	151	208	4	224	166	1,897
Dornogobi	30	-	1,621	10	640	266	372	-	365	273	3,577
Dundgobi	7	-	997	5	400	189	534	19	688	240	3,079
Gobi-Altai	17	5	87	13	43	44	69	6	188	65	537
Gobisumber	8	-	1,161	13	306	111	180	-	256	176	2,211
Khentii	7	4	2,672	6	481	288	346	-	391	347	4,542
Khovd	5	-	113	-	42	20	96	23	151	19	469
Khuvsgul	12	-	356	3	269	98	193	-	533	119	1,583
Orkhon	25	6	1,248	33	849	373	723	54	2,024	361	5,696
Selenge	13	3	2,110	67	1,833	607	1,126	171	2,777	641	9,348
Sukhbaatar	3	-	749	2	104	82	136	-	106	108	1,290
Tuv	270	35	8,869	118	6,242	3,210	6,944	192	13,534	2,971	42,385
Umnugobi	6	6	1,227	28	587	290	1,033	20	1,179	356	4,732
Uvs	15	-	80	-	32	34	52	17	183	31	444
Uvurkhangai	79	-	918	10	624	257	514	11	1,398	293	4,104
Zavkhan	17	-	211	7	89	41	113	4	366	57	905
?	23	-	72	6	48	38	44	5	220	21	477
TOTAL	775	59	26,754	414	15,339	7,184	14,435	658	30,520	7,235	103,373

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