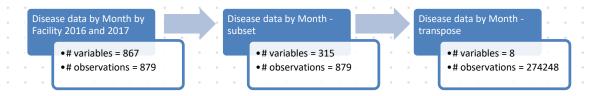


#### Disease Data by Month by Facility 2016 and 2017:

 Subset the columns – subset columns which gives information on the number of patients visiting a health facility due to a disease

	10	- 10	9	0.	- 10
List of selected variables					
hmis # of opd attendance	9	u	0	8	g/
hmis # of pregnant women tested hiv positive	×	×	-	*	
hmis # of 15 - 49 age group tested hiv positive	ü	0	0	0	0
hmis hiv confirmed positive (15-19 years) new case	0	10	0	0	io.
hmis acute respiratory infections - new cases (u5)	0	9	0	20.	0
hmis cholera - confirmed new cases	0	10			
hmis diarrhoea non - bloody -new cases (under5)	li l	0	0		- 60
hmis dysentery - new cases	0				
hmis ear infections - new cases					
hmis malaria ‰ÛÒ new case (under 5)					
hmis malaria- new cases (5 & above)					
hmis malnutrition ‰ÛÒ new case (under 5)	·				
hmis measles - confirmed new cases					

2. Re-shape the table



Detailed Quality Report:





#### Master List Free Service Health Facilities in Malawi

Dataset Info:

Number of variables = 22

Number of Observations = 9496

Columns	Variable Type	Missing or N/A values	Missing Percentage				
Village	Text	6	0.063				
GVH	Text	12	0.12				
Name	Text	. 44	0.46				
Phone	Numeric	108	1,13				
Email	Email	9239	97.29				
Facility Code	Numeric	8643	91.01				
2018 Catchment	Numeric	8959	94.34				
2017 Catchment	Numeric	9218	97.07				
2016 Catchment	Numeric	9389	98.87				
2015 Catchment	Numeric	8928	94.01				

Facility Type	Facilities count	No. of facilities that have code	No. of facilities that don't have code				
Dispensary	86	78	8				
Health Centre	542	539	3				
Health Post	151	151	0				
Hospital	85	85	0				
Outreach	5090 .	0	5090				
Village Clinic	3542	0	3542				
Total	9496	853	8643				

- \* Note:
- · Only Dispensary, Health Centre, Health Post and Hospital will be considered for the analysis
- · Facilities having Facility Code will be used to merge with Disease by Month data. Remaining will be dropped as they are Village Clinic or Outreach.

Summary Stats	2018 Catchment	2017 Catchment	2016 Catchment	2015 Catchment	
count	537	278	107	568	
mean	27039	28402	23762	27316	
std	24001	26715	12929	31805	
min	1129	1096	2179	2064	
25% quantile	13035	14319	14193	12327	
50% quantile	21189	22635	22844	20184	
75% quantile	34514	34361	31413	32870	
max	312657	301098	64375	518287	

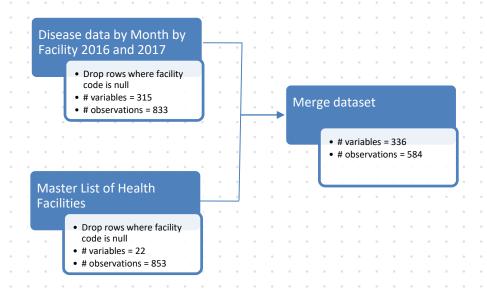
 The Catchment Population reduces for the year 2016 and then increases. Why??



<sup>\*</sup> Remaining 12 columns have complete Information

# Disease data by Month by Facility 2016 and 2017 & Master List Free Service Health Facilities in Malawi Merge

- Dataset Info:
- Total number of variables = 29
- Number of Observations = 182208



<sup>\*</sup> Facility Code is considered as an integer not a string. Eg Facility code '0102' will be considered as '102'

# Infosys be more

#### Number of cases Summary statistics for Merged data :

Summary Stats	Tot	tal_	_opd_	att	Total_cases				
count		è	ĕ	×	÷	- 584	*	- 584	
mean	er .	0		*		51631		21796	
std • •	*	0	- 10	16	-	55334	- 6	21445	
min · ·		0	-	-		. 0	6	- 0	
25% quantile	0				0	18023	9	- 8761	
50% quantile		0	-			37739	٠	16971	
75% quantile	0	0	0			62942		27756	
max	6	0	-0			438451	0	218611	

#### Catchment Population Summary statistics for Merged data :

Summary Stats		2015		2016		2017	2018
count	0	- 516	ü	- 98	10	248	477
mean	6	27815	ж	24361		29353	- 27974
std • •		32653	*	12665	0	27071	- 24442
min · · ·	0	2064	u	2179	-	2236	2088
25% quantile	0	12969	b	15366	a	16275	13975
50% quantile	0.	20671	0	23355	- e	23673	22137
75% quantile	10	33030	0	31883	q	35073	35683
max	÷	518287	×	64375	*	301098	312657

### **CH District Summary**

Dataset Info:

Number of variables = 22

Number of Observations = 30

**Detailed Quality Report:** 



District\_Summary.html

District Summary data is only available for the year 2017



# Population by SNU 2008-2030

Dataset Info:

Number of variables = 10

Number of Observations = 644

Number of Missing Observations = 0

Number of years = 2008 to 2030

Administrative level = District

Number of Districts = 28



#### Population Comparison between HRSL file and SNU 2015

HRSL districts					popula	ation			SNU districts				population	١.		Diffe	erence		
Balaka								386805.3554	Balaka					D	396411.1465				-9605.7911
Blantyre								492218.096	Blantyre						884497.4523				-392279.36
Chikwawa				٠				637354.6017	Chikwawa						533714.4561				103640.15
Chiradzulu								351983.2422	Chiradzulu						318322.5268				33660.715
Chitipa					ě	ii.	×	161107.5948	Chitipa .					is .	216911.8035				-55804.209
Dedza			· ·					747624.435	Dedza .						735410.7743			×	12213.661
Dowa	v				0	6		1326150.37	Dowa -						764414.2921	×			561736.08
Karonga	ě			6	ĕ	×	¥	294372.4176	Karonga .					6	337447.9156				-43075.498
Kasungu .	ě		×			ě	g	614334.1807	Kasungu .					0	826285.036				-211950.86
Likoma	0			o	0		10	3321.891527	Likoma 🏻					i.	10451.30058				-7129.4091
Lilongwe					0		9	1611607.391	Lilongwe -					0	1037293.593	0		0	574313.8
Machinga			0		0		0	887448.9479	Machinga					D.	608181.5293				279267.42
Mangochi	6	0			0	· ·	0	1453049.613	Mangochi			0		i.	1017070.243	·		o	435979.37
Mchinji -	y			×			ı	538054.3691	Mchinji =					5	- 589572.2272			0	-51517.858
Mulanje					0	×	×	796905.1685	Mulanje 🔹					b	- 572305.2639		0	÷	224599.9
Mwanza	¥		×	×	ü	ų.	ü	110867.9482	Mwanza 🔻	ö	4.	v		is-	104152.7271	4	6	ò	6715.2211
Mzimba	v	b	÷	*	ú	÷	ÿ	869155:1681	Mzimba 🔻		v		0 4:	ir	223740.3222				645414.85
Neno -	÷		-	- 6	ŭ	6	×	189639.1817	Neno -				6 6	6	150841.3436				38797.838
Nkhata Bay	9		v	15	0	v	10	180613.9947	Nkhata Bay	0				0	269068.7782	e e	0	6	-88454.783
Nkhotakota	*		ø	*	÷		ú	400922.4908	Nkhotakota					tr.	379474.447	÷		÷	21448.044
Nsanje					0		0	355808.215	Nsanje -	v				0	281552.4867	2	-	0	74255.728
Ntcheu	÷		0		0		0	693833.8637	Ntcheu -	0				0	572567.8665		0	0	121266
Ntchisi	×	0	0	b	0		0	1315368.575	Ntchisi •					0	285892.1923	0			1029476.4
Phalombe					0	0	e	460772:0919	Phalombe					0	373587.0056	۰		0	87185.086
Rumphi	v			o	0	v	0	183090.9836	Rumphi •	v		*		0	208615.8117	o	×	ø	-25524.828
Salima	¥		÷	*	÷	ŭ.	ĕ	408268.7417	Salima *	+		*		ii.	419448.3656		10	6	-11179.624
Thyolo	v		×	÷	ŭ		ĕ	744061.9688	Thyolo	÷	*			×	643836.0007	÷	*	÷	100225.97
Zomba			0	*	0		×	986456.0519	Zomba •	0	*			ü	138582.6181	10	- 1		847873.43

- Total population estimated by SNU for 2015 is 12899650 while HRSL (facebook) file shows 17201197.
- Population obtained using HRSL is close to the public information on population of 17.6 Million .



### Number of administrative levels in .shp administrative files

#### Details obtained using "adm-3" shp file

Administrative Level	#Counts
Administrative Level -1 (districts)	28
Administrative Level -2 (TA)	243
Administrative Level -3	3123

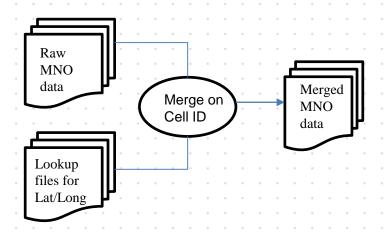


# MNO data (SMS)

Raw MNO Data	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	Consolidated for 7 days
# records	13807706	14349293	14612017	14132159	14578325	14637298	15060732	101177530
# columns	7	7	7	7	7	7	7	7
% null_records	0	0	0	0	0	0	0	0
# unique-originitating numbers	802229	823050	827078	811377	816335	834540	848513	2432914
# unique-receving numbers	1589425	1597154	1668109	1502943	1842691	1704991	1691751	4180774
# unique-LAC_ID	41	42	42	42	42	43	43	43.
# unique-Cell_ID	5647	5715	5715	5712	5734	5747	5738	5773



# MNO data (SMS) contd...



Merged Data	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	Consolidated for 7 days
# missing Lat/Long	50042	47341	46965	38941	49723	51219	51334	335565
% missing Lat/Long	0.36	0.33	0.32	0.28	0.34	0.35	0.34	0.33





Thank You



