

outline



overview



data pack structure



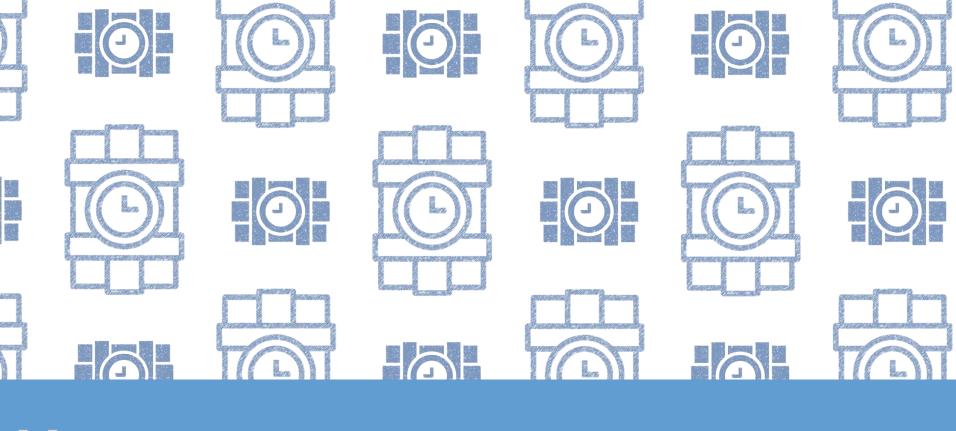
im and disagg allocation



ad hoc walk through



appendix: error checking features

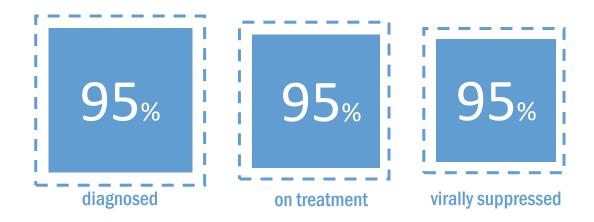




overview

what's the data pack

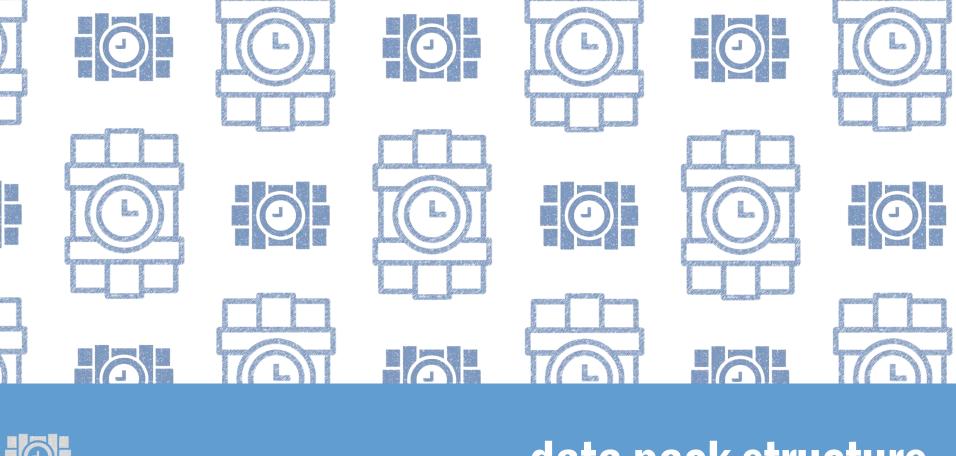
- excel-based targeting tool designed to help pepfar teams set targets in line with the 95-95-95 goals
- data packs are pre-populated with fy17 results, fy18 targets, plhiv estimates, and assumptions for a series of key indicators, mostly along the clinical cascade



timeline

Jan 10 – data pack release

TBD – disagg tool released



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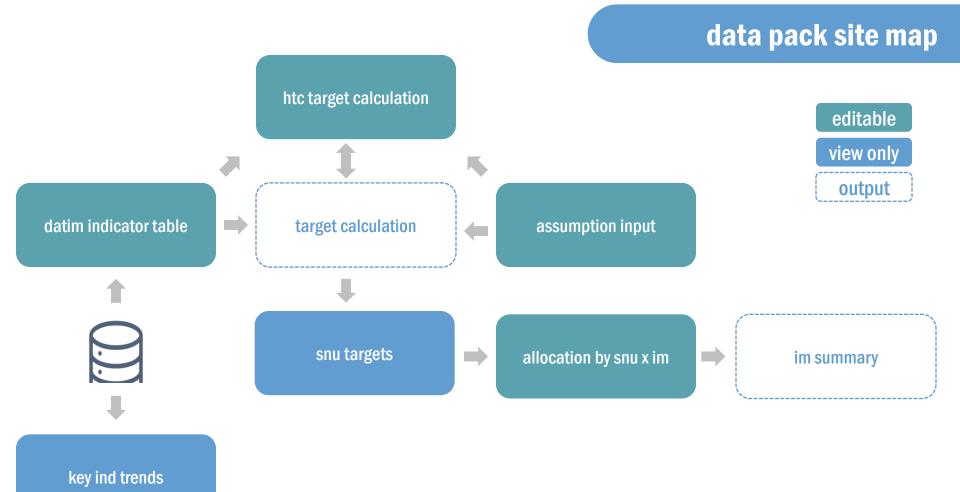
data pack structure

indicators

gend_gbv	ovc_hivstat	prep_new	tx_curr
hts_self	ovc_serv	prep_new	tx_new
hts_tst	pmtct_art	tb_art	tx_pvls
hts_tst_pos	pmtct_eid	tb_prev	tx_ret
kp_mat	pmtct_stat	tb_stat	vmmc_circ
kp_prev	pp_prev	tb_stat_pos	

108 total numerators and disaggregates targeted for

data pack process fact view datasets im x snu country team country team district level > level data pack adjustments adjustments targets targets site x im disagg country team 4 disagg allocation tool adjustments targets site level > datim targets



disagg tool site map

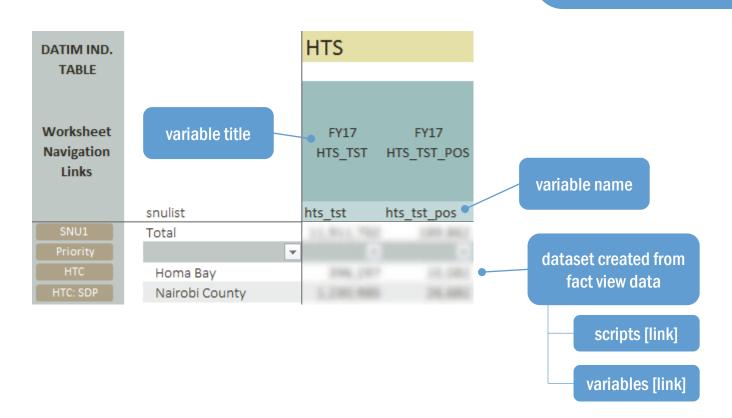
plhiv & pop [data pack] allocation by snu x im [data pack] indicator target calculation indicator allocation tabs [psnu level]

editable

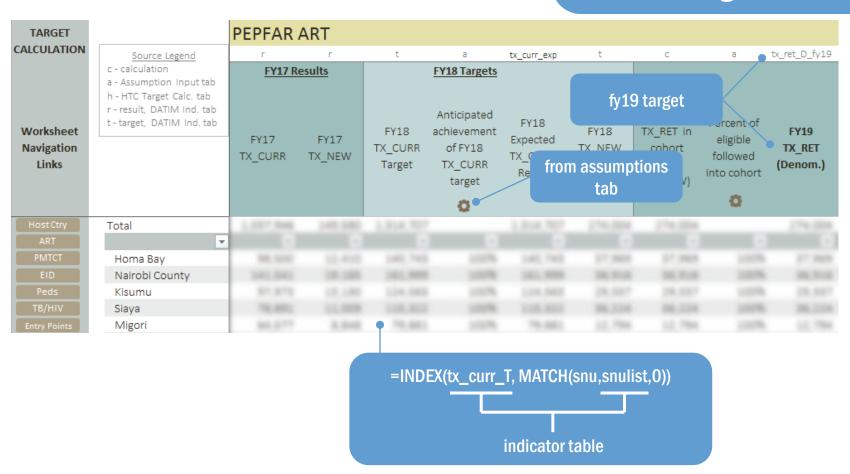
view only

output

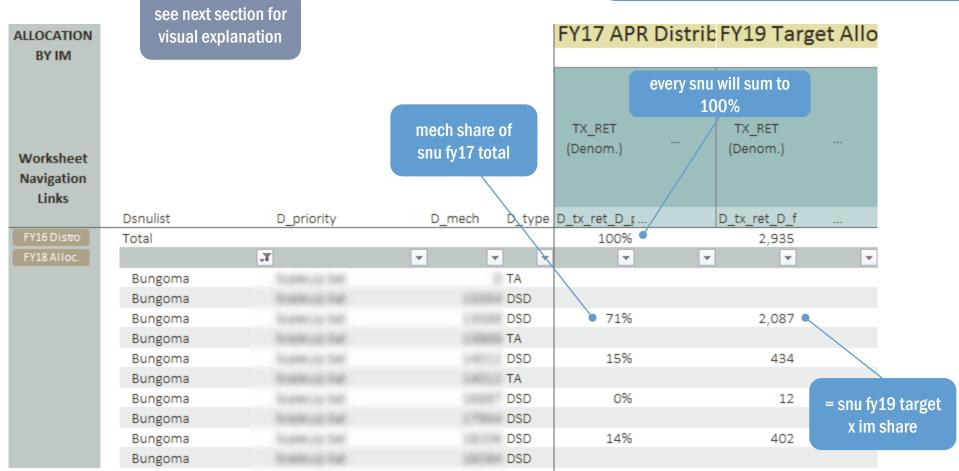
indicator table



target calculation



allocation by snu x im

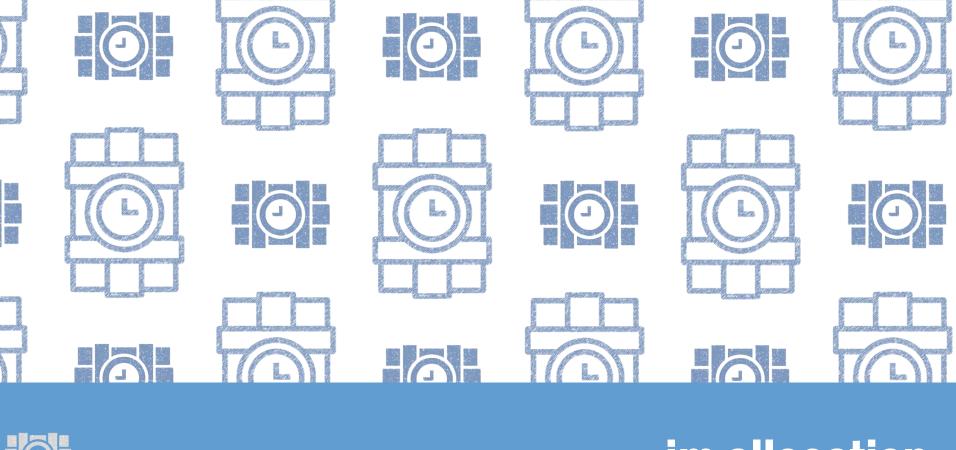


positives identify in snu

hts calculation

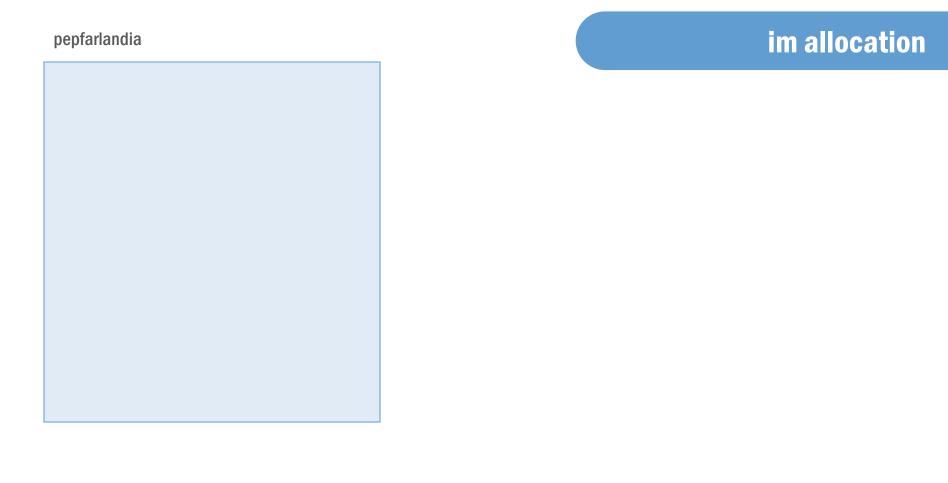
positives identify x modality psnu share ÷ positivity

	share of tests (sum to 100%)	positivity	total tests	
Š				
Ĉ N				
d				





im allocation

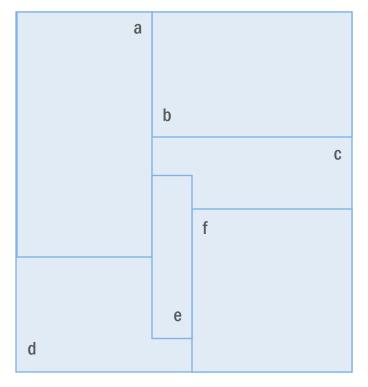


let's assume we're working in pepfarlandia

pepfarlandia

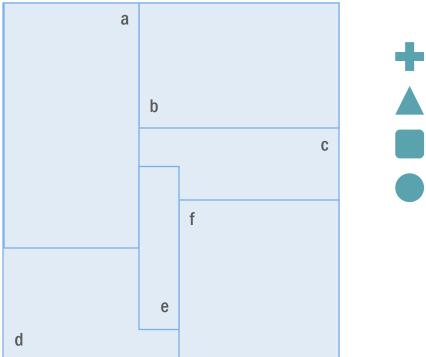


im allocation



which has six districts

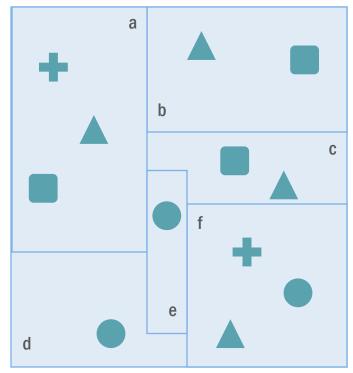
pepfarlandia



and four distinct IMs

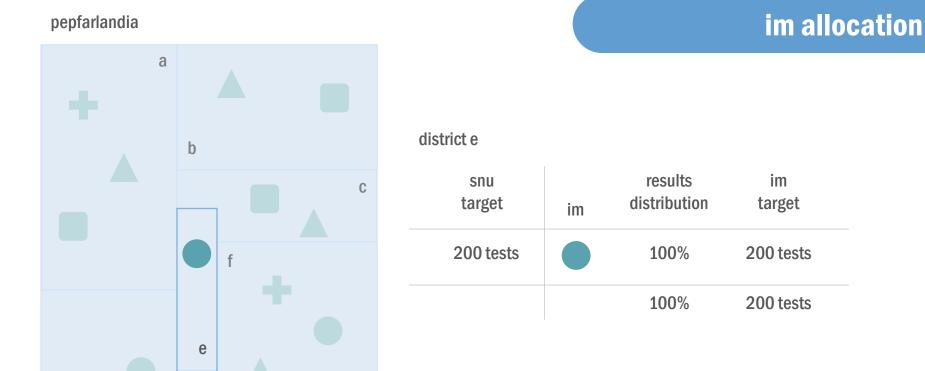
im allocation

pepfarlandia

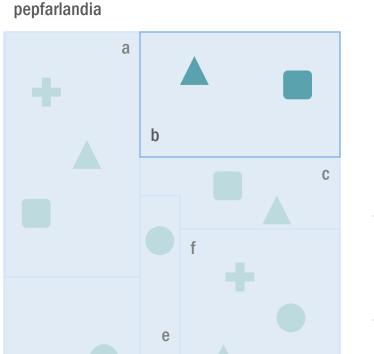


im allocation

working across the country



it's easy to figure things out with one mechanism in a snu



im allocation

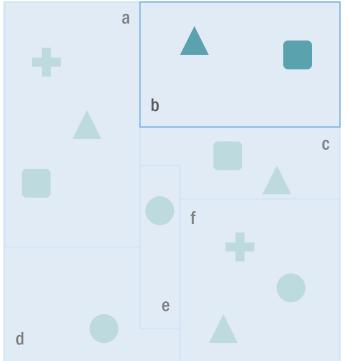
snu target	im	results distribution	im target
200 tooto		70%	560 tests
800 tests		30%	240 tests
		100%	800 tests

but is more challenging with multiple mechanisms

district b

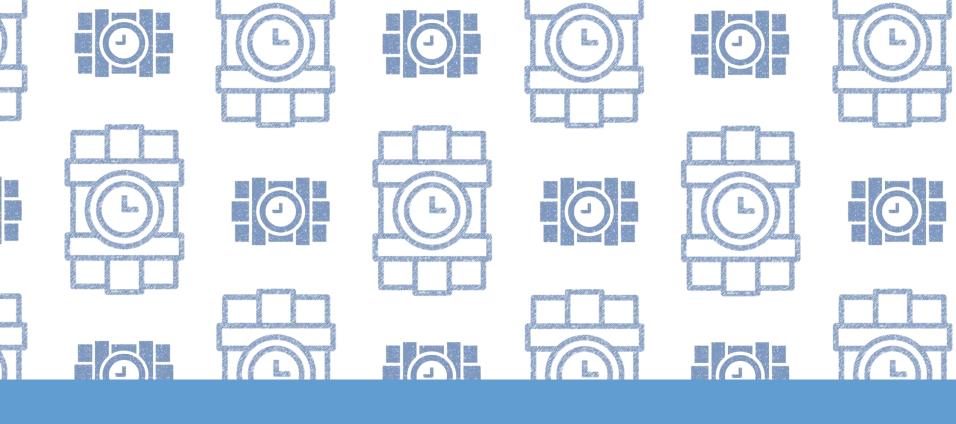
pepfarlandia im allocation

dictrict b



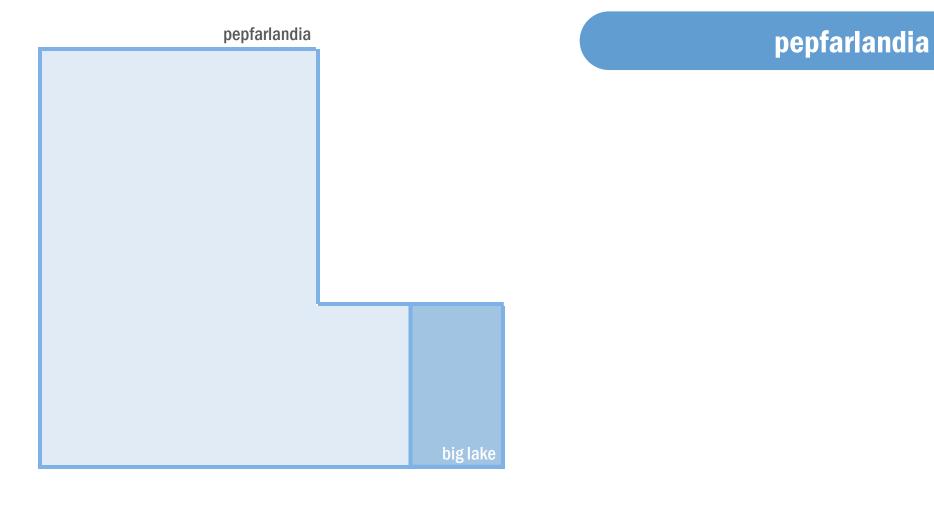
district b			
snu target	im	results distribution	im target
		70%	560 tests
800 tests		40%	320 tests
	*	-10%	-80 tests
		100%	800 tests

and more challenging with dedups





disagg allocation

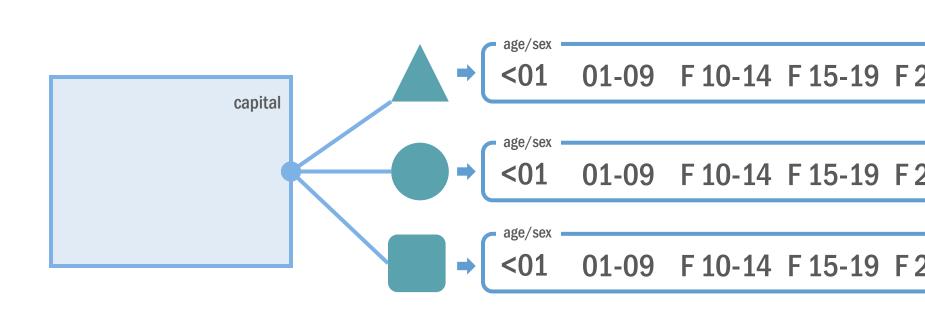


pepfarlandia dp targets at psnu level west ... fy19 tx_new ... plhiv 6,000 1,000 ... capital 3,000 400 ... west capital 4,000 600 ... south south big lake

pepfarlandia west 1011 - triangle project 2022 - infinite loop capital 3033 - inside the box south big lake

three partners

granularity



variables at play

pnsu x mechanism x indicator x type x disagg x categoryoptioncombo

disagg target table setup

	indicator	
-		

disagg target table setup

indicator

pnsu mechanism type

disagg target table setup

indicator

disagg categoryoption

pnsu mechanism type %

disagg target table setun

		alsagg target table setup
indicator	ı	
	fy17 distro	fy19 target
	disagg	disagg
	categoryoption	categoryoption
pnsu mechanism type	%	#

ind	lica	tor

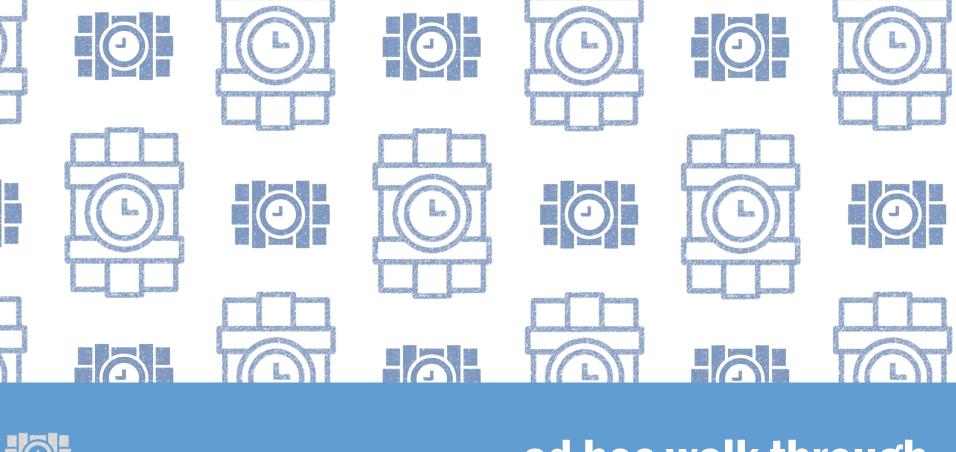
ca

fy17 distro disagg categoryoption fy19 dp numerator fy19 target
disagg
categoryoption

%

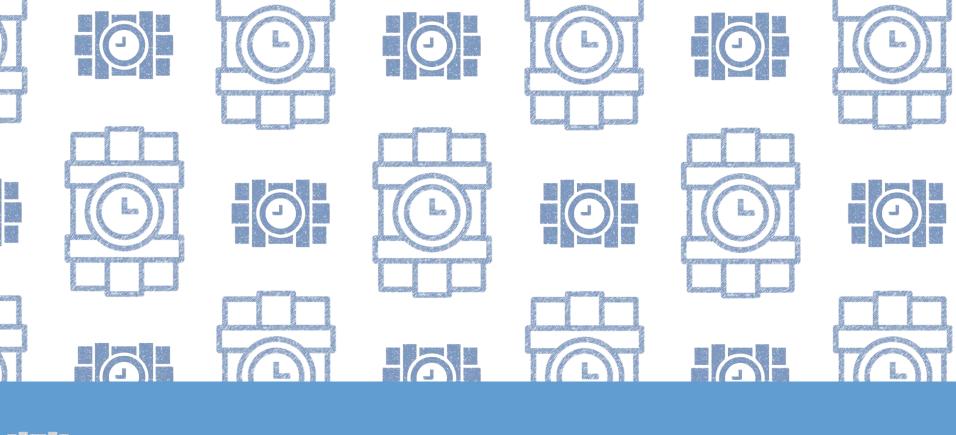
#

= % x #



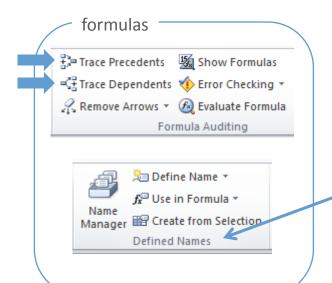
O

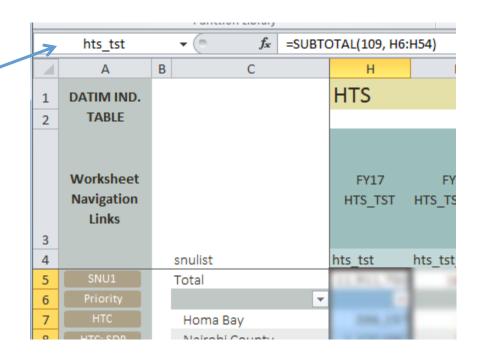
ad hoc walk through



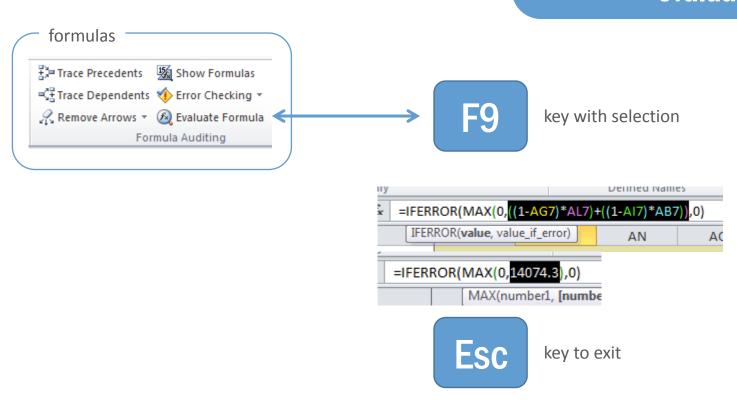
appendix: error checking features

cell tracing





evaluate formula



PMTCT DATIM IND. **TABLE** Worksheet FY17 **Navigation** PMTCT ARV AI Links snulist pmtct art Total ₩ Homa Bay Nairobi County Kisumu Siaya Migori Kakamega Mombasa Nakuru Kiambu

check data

```
filter(operatingunit == "Kenya", indicator == "PMTCT_ART",
           disaggregate=="Total Numerator") %>%
   group_by(psnu) %>%
   summarise_at(vars(fy2017apr), funs(sum(., na.rm = TRUE)))
# A tibble: 48 x 2
              psnu fy2017apr
            <chr>
                       <int>
 1 _Military Kenya
           Baringo
             Bomet
           Bungoma
            Busia
6 Elgeyo Marakwet
              Embu
 8
           Garissa
          Homa Bay
           Isiolo
     with 38 more rows
```

see list of how variables were created [link]

main formulas - max

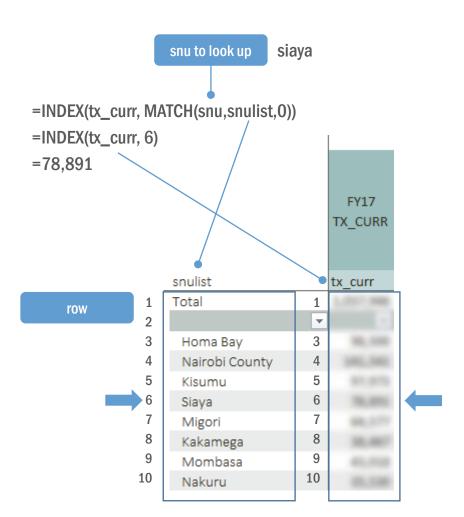
=IFERROR(MAX(0,((1-AG7)*AL7)+((1-AI7)*AB7)),0)

=IFERROR(MAX(0, value),0)

=IFERROR(| value ,0)

max allows us to ensure values are not negative

iferror changes #NA to a 0 or blank



main formulas - index-match

index-match allows us to find a value in a table based on the row and/or column reference.

match here is finding what row matches the selected snu. index then looks up the value in the 6th row of the tx_curr reference table

