**Readme instruction to review and update the Excel workbook about Key Population data and 2023-round Goals calibration, in the context of 2024-round HIV estimates**

Version 30 January, UNAIDS

**Purpose**

This workbook summarizes key population data used to calibrate the *Goals* transmission model for your country. The Goals model is built within the Spectrum platform with the purpose of estimating and projecting epidemics using different program and intervention coverage scenarios.

This transmission dynamic model helps efforts to respond to the HIV/AIDS epidemic by showing how the coverage of prevention, treatment and care services, and associated program funding allocated to different interventions and population groups relate to the achievement of national goals, such as reduction of HIV incidence and mortality. It does so both historically, as a means of impact evaluation, and looking forward by projecting and comparing scenarios that inform program service needs, and funding allocations, overall and by risk group, required to meet national and global HIV response targets.

Country Goals models are calibrated to both general population data from household surveys or antenatal care clinics, and key population data from biobehavioral surveys and surveillance. Every year, they are updated, building on the latest national Spectrum-AIM model, they closely match the latest official country estimates of HIV incidence and prevalence as published by UNAIDS each year.

UNAIDS began using the Goals model in 2023 to estimate the distribution and dynamics of new and prevalent HIV infections among key populations since 2010. (*J AIDS* Supplement 2024, Korenromp-EL, Sabin-KM, Stover-JS *et al*. <https://journals.lww.com/jaids/fulltext/2024/01011/new_hiv_infections_among_key_populations_and_their.5.aspx> )

Beginning with this 2024 round of HIV estimates, the review and updating of key population data becomes a critical element of the estimates process. Data entered into Goals, the Global AIDS Monitoring system and Spectrum will be used to create estimates of the national distribution of new HIV infections among different subpopulations. These analyses can be used to recalibrate the HIV response to communities where HIV transmission is on-going.

Your country's data updates and corrections will be used to recalibrate Goals models in 2024.

The workbook is simple. There is one sheet that requires the attention of country teams, called “*Summary KP*”.

The indicators required are HIV prevalence, population size estimates, and meta data such as the presumed denominator (e.g., adult men 15-49 years old) if a PSE is expressed as a %.

The required data are sorted by key population and their respective genders. For sex workers, please enter the data for female, male and transgender sex workers if available; and for PWID, please enter male and female PWID separately if available. If you only have these data pooled across all genders, please enter the data in the appropriate “all gender” lines.

*In case you update, i.e., overwrite an existing data point already used by Goals in 2023, please use formatting (e.g. change to a color shade and/or bright font) to highlight your change.*

**HIV prevalence block**

* Enter each available study for each key population on a new line. Key populations may be separated by gender. In this case, male sex workers, female sex workers and transgender sex workers are entered on separate lines. If data are aggregated across all genders, please enter on the line ’Sex Workers (FSW + MSW+TG-SW)’.
* Enter the year the survey was conducted, not when it was published.
* Write out the source of the data, as a full citation. Preferably, the source will include a link to the final report, or the report is shared by email to the regional UNAIDS Strategic Information Adviser or in the national estimates SharePoint folder. The report can be shared in any language.
* If the source was a secondary source like the KP Atlas, please note that.
* Enter the HIV prevalence, upper and lower confidence bounds and survey sample size for each survey.

**Population size estimate block**

Goals (and EPP) translate numerical size estimates to proportions and applies those proportions for the data collection year as well as years before and after, so that KP group sizes increase with overall adult population growth. The proportion needs to be calculated if you only have numerical estimates available. The worksheet will do this for you.

There is a block with the results of size estimates used in the most recent Goals model.

To obtain the necessary size estimate inputs, proceed to the **national size estimate data block.**

* Enter each size estimate for the relevant population on a separate line.
* Provide the year for which the estimate was made. Please do not include the year in which it was published.
* Enter the number estimated for the population.
* Enter the region/city for which the population was estimated.
* Enter the population denominator of the relevant gender and age group in the year of the study, for the region sampled, if available. (E.g., enter men aged 15-49 in the capitol city.)
* Enter the method used to derive the size estimate. For options and terminology, see [Guidelines on Estimating the Size of Populations Most at Risk to HIV (unaids.org)](https://data.unaids.org/pub/manual/2010/guidelines_popnestimationsize_en.pdf)
* Write out the source of the estimates as a full citation. Please share the link or copy of any reports of size estimate exercises, in any language.
* Please share any other details about the location or inclusion definitions used.

**Goals epidemic trend estimate and Feedback from users block**

Below the data entry fields, you will see 3 graphs, with the Goals historic prevalence trend estimate for FSW, MSM and PWID. Orange lines indicate the Goals representation; red diamonds with black vertical bars the individual data (point estimate and uncertainty bounds).

Countries which used the EPP-Concentrated model for their latest official Spectrum estimate will additionally see blue lines showing the latest Spectrum-EPP prevalence estimate for each key population if that had been included in the EPP configuration.

Between Goals and EPP, the prevalence estimate for the most recent year with data will typically align, but the historic shapes of the curves may differ.

To calculate confidence bounds on prevalence data fitted by Goals, prevalence data points with sample size unknown or unretrievable were assigned a sample size of N=300 per site/data point.

In case a country reported to UNAIDS prevalence for several sites but no national prevalence, the Goals fitting and graph data display took a sample-size-weighted average of relevant data points, excluding any data points with sample size not reported.

* You are asked to review the Goals prevalence trend and its fit to the national data, and to comment on that in column I (yellow cells).