

Integrated Health Tool for planning and costing (IHT)

Tuberculosis module



Demographics and HIV

Department for HIV, Tuberculosis, Hepatitis and Sexually Transmitted Infections

Last updated: **March 2026**



World Health
Organization



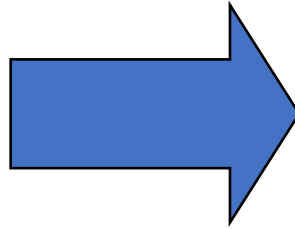
**Integrated
Health Tool**
for planning and costing



Demographics in the TB module of IHT

Data Inputs*

- ☐ Population by age and sex in the base year
- ☐ Fertility
- ☐ Age-specific fertility rates
- ☐ Life expectancy
- ☐ Model life tables (Mortality)
- ☐ Migration



Results

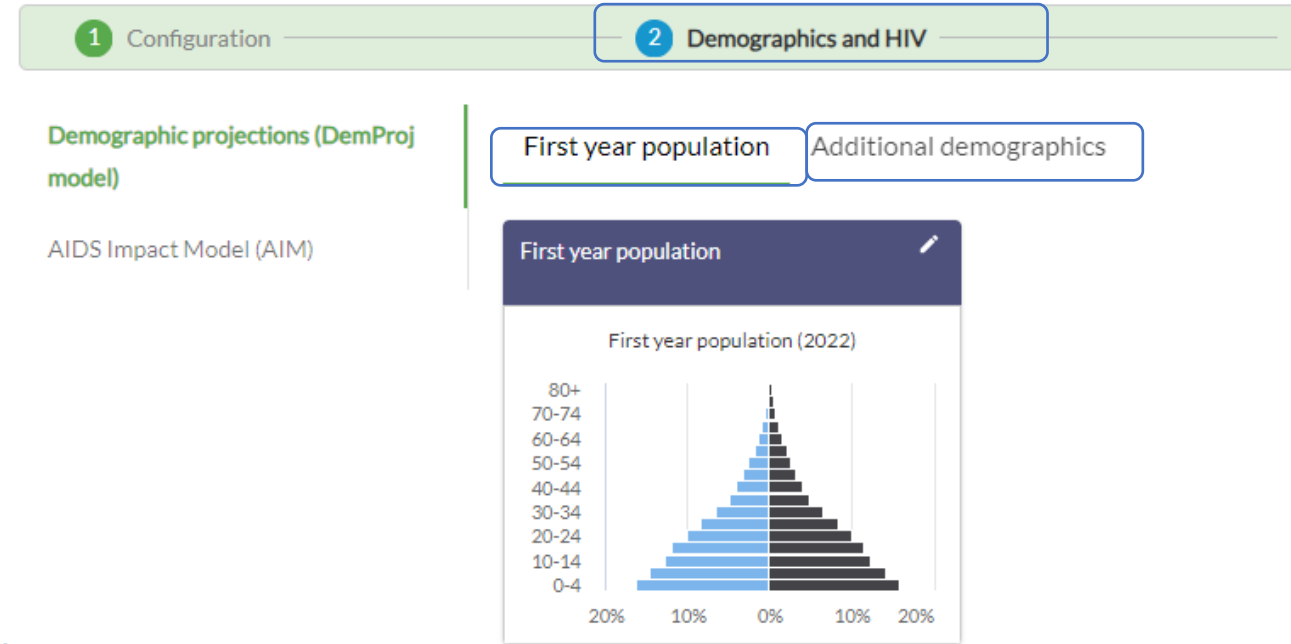
- ☐ Population by age, sex, and year
- ☐ Births
- ☐ Deaths
- ☐ Other demographic indicators

$$\text{Population} = \text{Population} + \text{Births} - \text{Deaths} + \text{Net Migration}$$

*Default data drawn from UN World Population Prospects

Demographics: access

- **Open** your IHT file created in <https://tb.integratedhealthtool.org/>
- **Go to “2. Demographics and HIV”** in horizontal menu bar
- Review default in **“First year population”** and **“Additional demographics”** pages



Source: TB module of IHT: access to “2.Demographics and HIV

Updating demographic data

“Demographics” can be informed by external set of population estimates updated by the user (*i.e. replacing UNPD, World Population Prospects 2022*)

- **User edits** First year population or International migration
- **Demographics module** recalculates
- **Demographics and HIV Results** show result of user edits & calculations

First year population

Display first year population as:

Single ages 

First year population (2022)

Age	Male	Female
0	733,794	721,506
1	715,533	704,432
2	705,104	694,205
3	697,871	687,802
4	694,164	685,897
5	687,592	680,594
6	684,615	678,184
7	676,749	671,920

International migration

Net migration

Male age distribution

Total net migrants per year

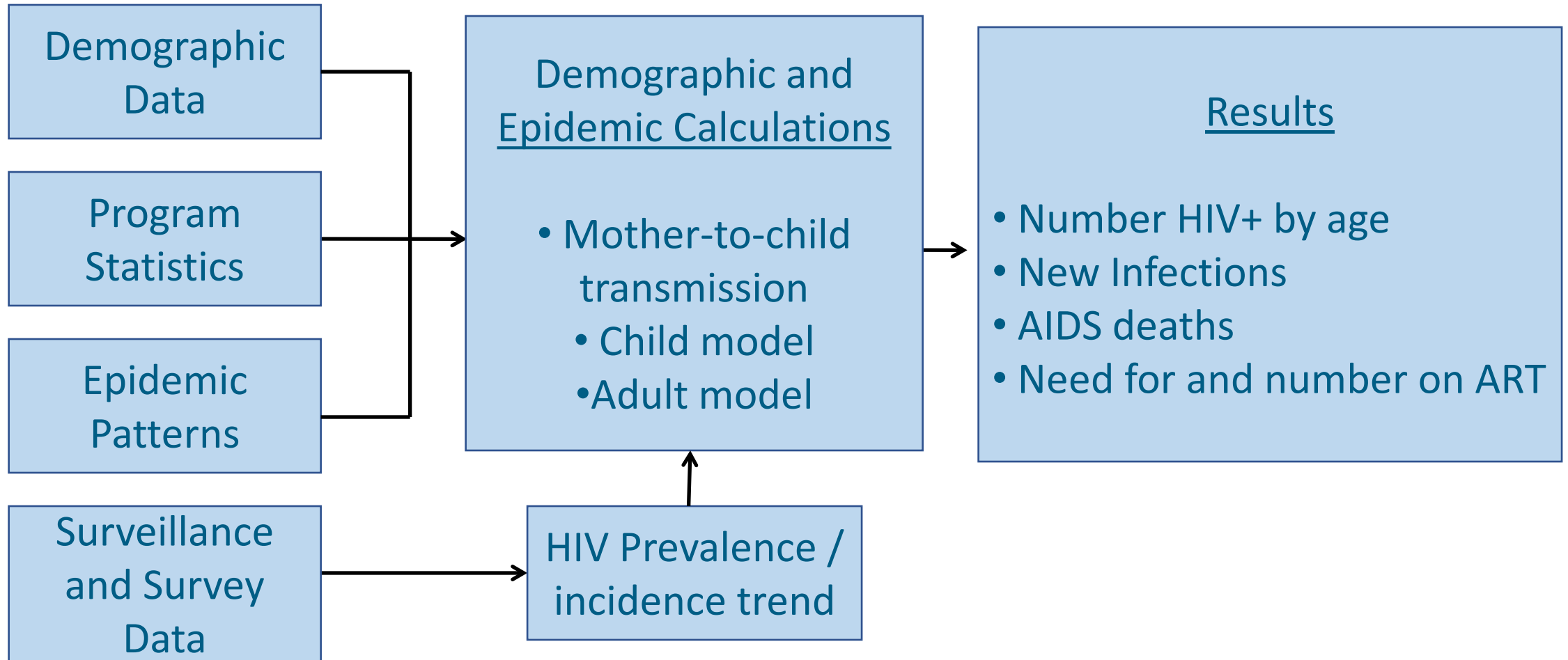
	2022	2023
Male	-6,082.0	-6,082.0
Female	-3,915.0	-3,915.0

Source: TB module of IHT: access to “2.Demographics and HIV

HIV/AIDS estimates in the TB module of IHT

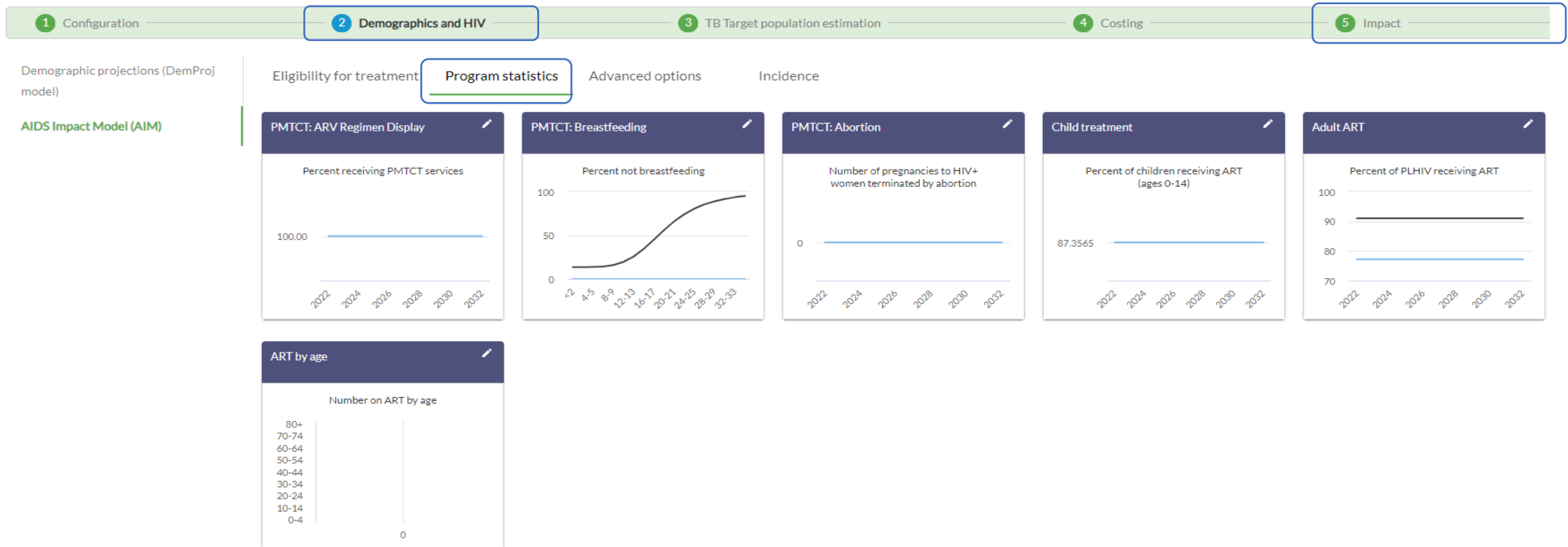
- **“HIV” module is also part of IHT** and integrated within the TB module of IHT.
- **“HIV” uses the AIM (AIDS Impact Model, UNAIDS)** model to forecasting HIV population estimates. It models annual estimates of key HIV indicators by sex, single age and single year.
- **Data inputs are pre-populated with default values** from HIV program data and epidemic projections (UNAIDS, annual).
- **Data outputs are generated for** the “TB Target population estimation” component (e.g., new infections, people living with HIV by age, AIDS deaths, ART coverage).

AIM (AIDS Impact Model) structure



Default data for the HIV impact model

- “HIV” population is pre-populated if AIM files are publicly available and user reads/reviews
- A few countries do not publish AIM estimates and data will be completed by user



Source: TB module of IHT: access to “2.Demographics and HIV

HIV component: access

- **Open** your TB module of IHT file created in <https://tb.integratedhealthtool.org>
- **Go to “2. Demographics and HIV”**
- **Review** defaults in “**Eligibility for treatment**”, “**Program statistics**” and “**Incidence**” pages
 - **Minimum review tasks:** data inputs completed for ART coverage for adults and children*, PMTCT coverage, and incidence

HIV component: edit data

- User edits directly in relevant cells
- HIV model recalculates
- Updated estimates will be reflected in “TB target population estimates” disaggregated by age, ART status and severity of (HIV) illness

Adult ART

Select method of ART coverage entry

Number or percent

Specify the number on ART or the percentage of those in need on ART

	2022	2023	2024	2025	2026
Number of adults receiving ART					
Male	-	-	-	-	-
Female	-	-	-	-	-
Total	-	-	-	-	-
Percent of PLHIV receiving ART					
Male	77.21%	77.21%	77.21%	77.21%	77.21%
Female	91.05%	91.05%	91.05%	91.05%	91.05%
Calculated number of PLHIV					
Male	571,872	567,629	563,430	559,295	555,033
Female	1,018,...	1,028,...	1,039,...	1,050,...	1,061,...
Total	1,590,...	1,596,...	1,602,...	1,609,...	1,616,...
Percent who interrupt ART each year	0.00%	0.00%	0.00%	0.00%	0.00%
Number initiating ART					
Male	0	0	0	0	0
Female	0	0	0	0	0
Total	0	0	0	0	0
Re-engaged	0	0	0	0	0

☐ Adjust program data for under / over count based on quality assessment

Load from ADR

Apply default interruption rate

Source: TB module of IHT/ “2.Demographics and HIV/Program statistics/Adult ART

Summary

- **Demographics and HIV** components generate demographic projections and HIV data required for the “TB target population estimation” for the various TB intervention packages being considered.
- **They can be accessed from** the TB module of IHT’s horizontal menu: “2. Demographics and HIV”.
- **Default data** can be updated by the user by overwriting data in cells.
- **Minimum data review tasks** are to review the total population, ART coverage for adults and children, PMTCT coverage, and incidence.