What does the HFI model do?

HFI uses dynamic epidemiological-economic-finance analyses for NCDs in different settings. They assess the possible outcomes of cost-effective, high-impact interventions and identify the investments needed to help reduce the global health and economic burden of NCDs.

The HFI model will allow for analyses to be delineated based on:

- Disease epidemiology, demographics, geography, utilization rates of public/private care
- Impact per socio-economic or vulnerable sub-population
- Short, medium or long term intervention-to-impact lag
- Health versus economic versus financial returns (or a combination thereof)

The model built will be parameterized using data from WHO, DCP3 and IHME, as well as data sources derived from partners/clients, as appropriate.

These data include but are not limited to:

- Prevalence, mortality and life-years lost due to NCDs
- Out-of-pocket and health expenditures on NCD treatments
- Reduction of labor force productivity due to NCDs
- Demographics, population age structure and size of labor force
- Other associated costs

The model will cover a multi-year time horizon to predict the epidemiological and economic impacts of the chosen interventions.

Analyses will include:

- Direct cost modeling
- Indirect cost modeling
- Extended cost-effectiveness analyses
- Econometric and macroeconomic analyses
- Social impact and ROI calculations

The outputs of the model will include a reduction in disease prevalence, a reduction in life years lost due to the disease, the health gains per dollar spent and the cost per quality-adjusted-life-year.

The model will further take into account the dimensions of equity, age, as well as factors such as revenue generation and volume-based and catchment area based considerations.

These outputs over the time horizon will allow HFI to estimate the current and future investments needed to reach the desired outcome of reducing the burden of the NCD being modeled.
THE HFI MODEL - A UNIQUE ENDS TO ENDS SOLUTION TO EDUCATE THE NCD INVESTMENT THESIS

The model backbone will be packaged as a user-friendly application that includes data inputs, model and desired outputs (i.e. via R-shiny application), and easy-to-understand impact metrics.

The algorithm will further allow for estimates of investment needs and forecasting of what investment impacts will be.

Based on investor/client needs, HFI will suggest packaging/development of deal flow (private) or financing instrument/"intervention".

THE HFI MODEL MATCHES INTERVENTION WITH INVESTOR

Uniquely, HFI will generate analyses and outputs to be fit for purpose and specific clients, rather than traditional hard-to-understand ROIs that conflate health and economic impacts, thereby lacking in appeal, interpretability, and/or actionability by social impact investors, philanthropy, and public sector audience.

The model will allow the user to change parameter values of the model from the front end and then explore the changes of outputs, etc.

HFI MODEL FORESCALTS TIMEFRAME AND ROI

The model will allow HFI to forecast investment staging, and over what time period they can expect a return on investment or the desired social/health impact to be reached.

HFI BRIDGES THE PUBLIC-PRIVATE SECTOR DIVIDE

HFI works and partners with governments, implementers, foundations, bilaterals, public-private partnerships, health-focused private sector companies, social impact investors, and venture philanthropy.

HFI - THE ONE STOP SOLUTION TO DRIVE NCD INVESTMENT VALUE

HFI offers end-to-end solutions — from analysis and guidance on NCD-related investments, towards supporting the right deal structure and bringing together the right partners.

We offer an algorithm, decision framework, and guidance on highest health, social, and financial impact related to chronic disease investments.