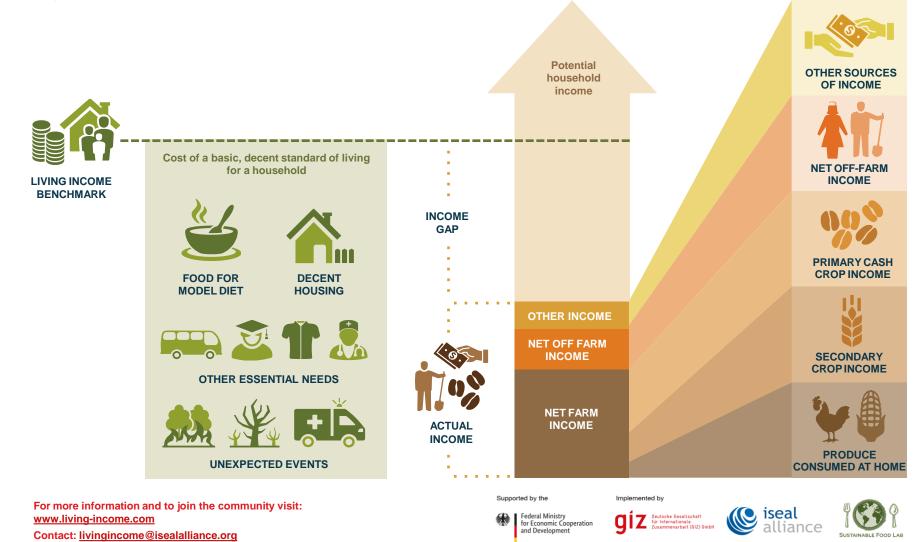
# Working towards a living income: Calculating living income reference prices

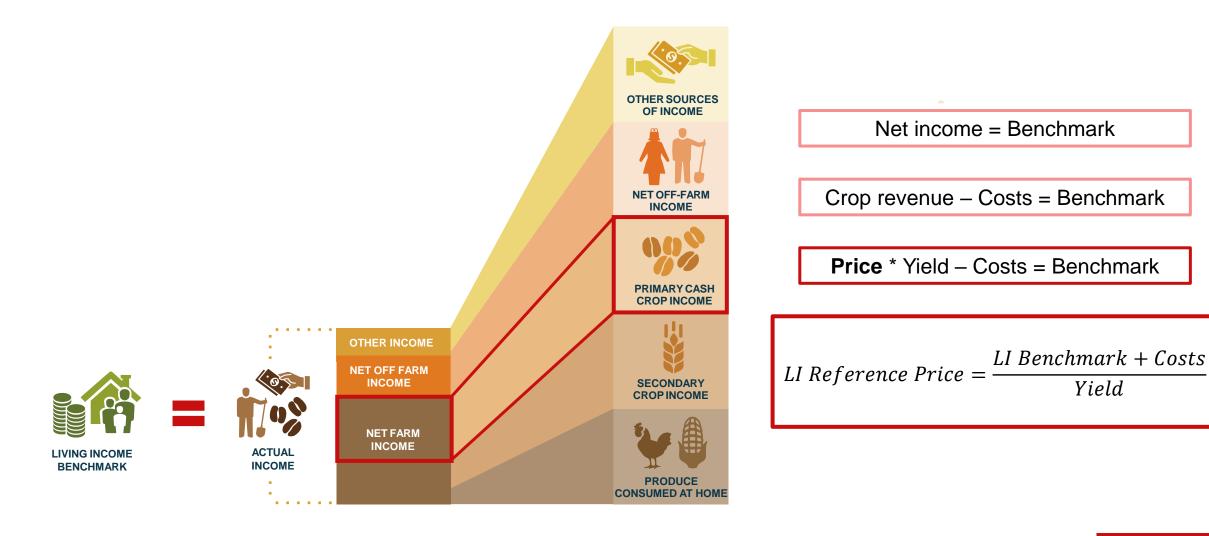
**Tim Loos** 

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

## **The Living Income Story**



#### Price as one piece of the puzzle

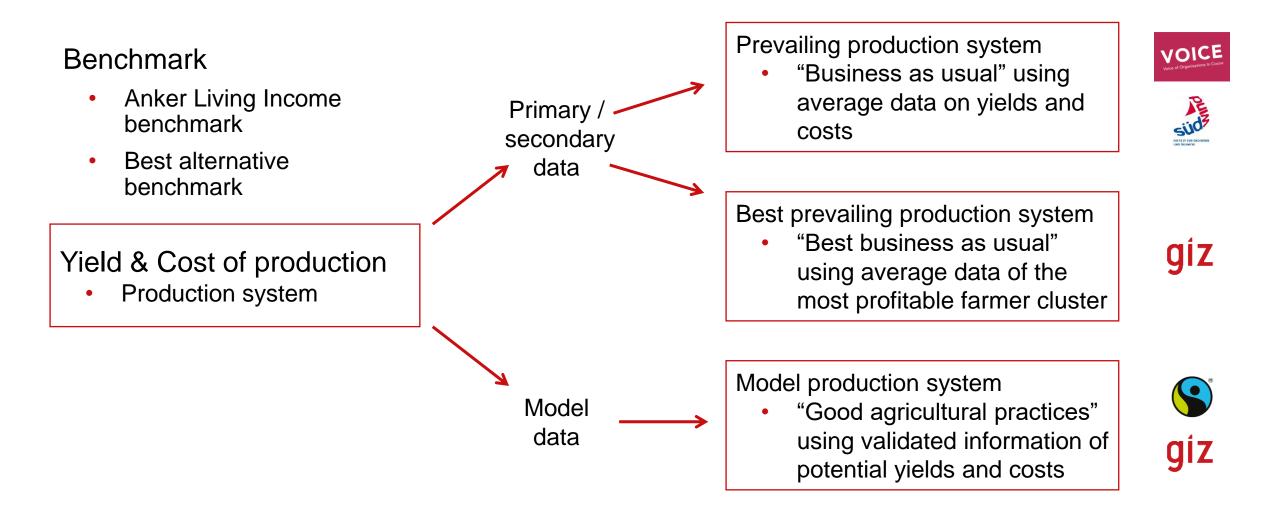


#### LI Benchmark + Costs **Calculation approaches** *LI Reference Price* = Yield Primary cash crop $LIRP = \frac{\frac{inc \ main \ crop}{total \ income} * \ LIB + C}{C}$ **OTHER SOURCES** contributes X % to **OF INCOME** household income Y $\rightarrow$ adjusting by income share **NET OFF-FARM** INCOME $LIRP = \frac{\frac{deployed \ HH \ labor}{available \ HH \ labor} * \ LIB + C$ **PRIMARY CASH CROP INCOME** Primary cash crop Y demands X % of household labor SECONDARY **CROPINCOME** $LIRP = \frac{LIB + C}{Y * fully employed land size}$ $\rightarrow$ adjusting by labor aspects **PRODUCE CONSUMED** AT HOME

## Data requirements

	Approach 1	Approach 2	Approach 3
Principle	Consider <b>income share</b> of focus product	Consider <b>labor share</b> invested in focus product	Consider <b>fully employed</b> <b>land size</b> with focus product
Data requirements			
Similarities	<ul><li>Benchmark</li><li>Yield levels</li><li>Production costs</li></ul>		
Differences	<ul> <li>Total HH income</li> <li>Income derived from focus product</li> </ul>	<ul> <li>HH labor capacity</li> <li>Labor input into focus product</li> </ul>	<ul> <li>HH labor capacity</li> <li>Land size that would fully absorbe HH labor</li> <li>Assumptions on other crops produced (labor demand)</li> </ul>

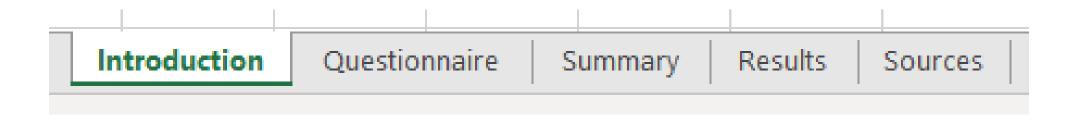
#### How to feed the equations?



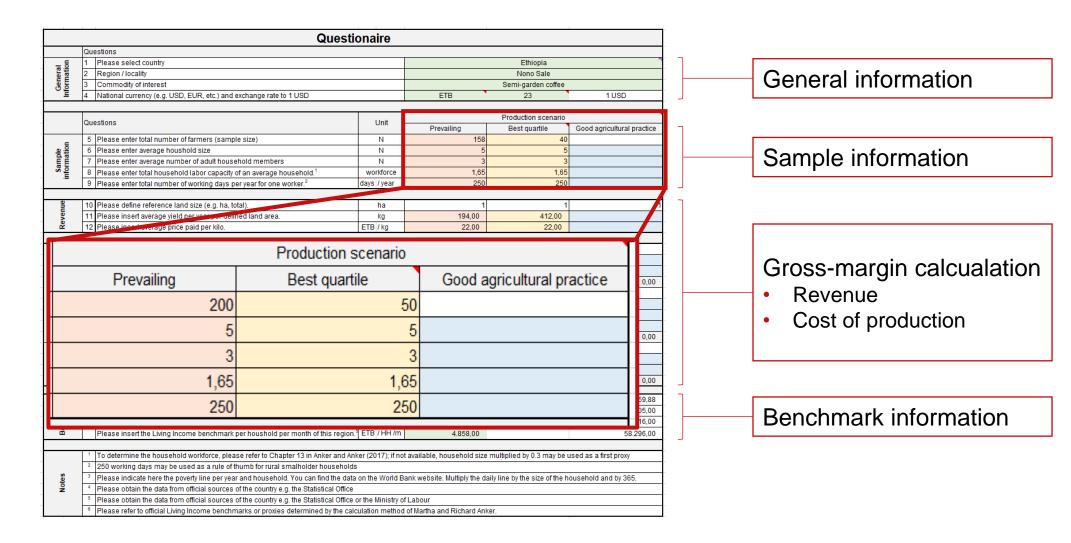
#### **Reference Price Calculator (v0.3)**

#### General information

- Excel-based tool to calculate reference prices for a given agricultural commodity (crop) in relation to different benchmarks, incl. Living Income
- Focus on calculation approach 1 (income share) and approach 2 (labor share)
- Gross margin calculations for three production scenarios
- Data input in "questionnaire" sheet
- Provides results table and figure on reference prices and price gaps



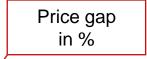
#### **Reference Price Calculator – questionnaire**



# **Reference Price Calculator – results (table)**

Example: Ethiopia, semi-garden coffee

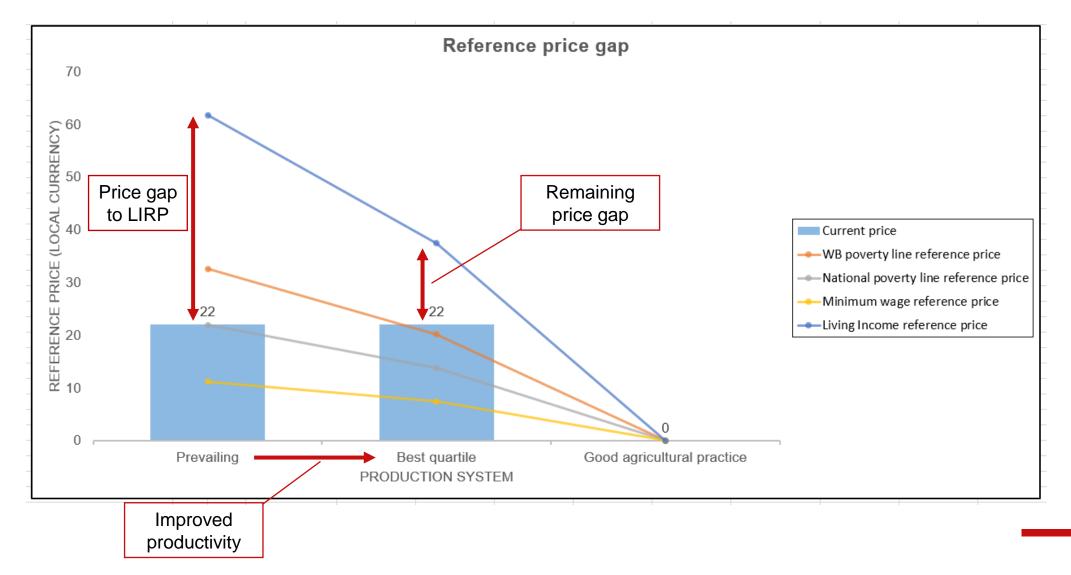
Reference price



Results												
Production system		Prevailing		Best quartile		Good agricultural practice		Benchmark				
Reference price for	Unit	Current price	Reference Price	%-difference	Current Price	Reference Price	%-difference	Current Price	Reference Price	%-difference	Household with a laborforce of	1 1 65
World Bank Poverty Line	ETB / kg	22,00	32,56	48%	22,00	20,09	-9%	0,00	#DIV/0!	#DIV/0!	29.459,88	
National Poverty Line	ETB / kg	22,00	21,87	-1%	22,00	13,76	-37%	0,00	#DIV/0!	#DIV/0!	18.905,00	
National Minimum Wage	ETB / kg	22,00	11,15	-49%	22,00	7,40	-66%	0,00	#DIV/0!	#DIV/0!	8.316,00	
Living Income	ETB / kg	22,00	61,74	181%	22,00	37,40	70%	0,00	#DIV/0!	#DIV/0!	58.296,00	
Notes: The benchmarks refer to the values			•	e labor force.								

Laborforce is estimated using 0.3 labor equivalents per household member

## **Reference Price Calculator – results figure**



giz

### **Reference Price Calculator (v0.3)**

Using the tool: how it promotes your work



- Refine pricing strategies adjusted to specific project context
- Understand the linkages between farm based interventions (GAP) and pricing strategies within a holistic living income approach

Let us collaborate to test and further develop the tool to make it practical and powerful



- The current beta version is available for testing
- Questions, suggestion and comments are most welcome!