

# An Index to Select Beneficiary Households for Interventions to Alleviate Food Insecurity

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# Rationale

Households with  
food insecurity

Government  
interventions

Alleviating poverty

To improve accuracy  
in resource allocation

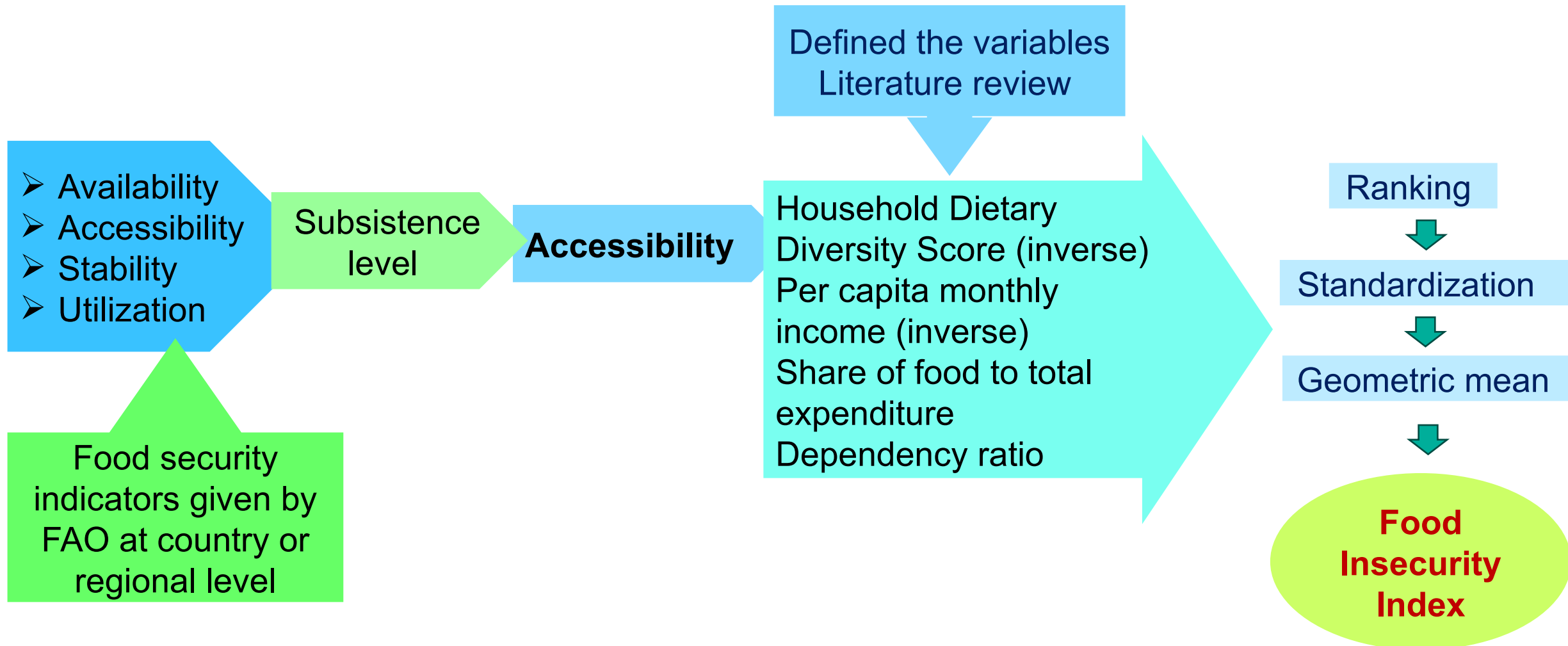
Selection of priority  
households is vital

**Food  
Insecurity  
Index**



# Method

## Approach and Calculation of Food Insecurity Index

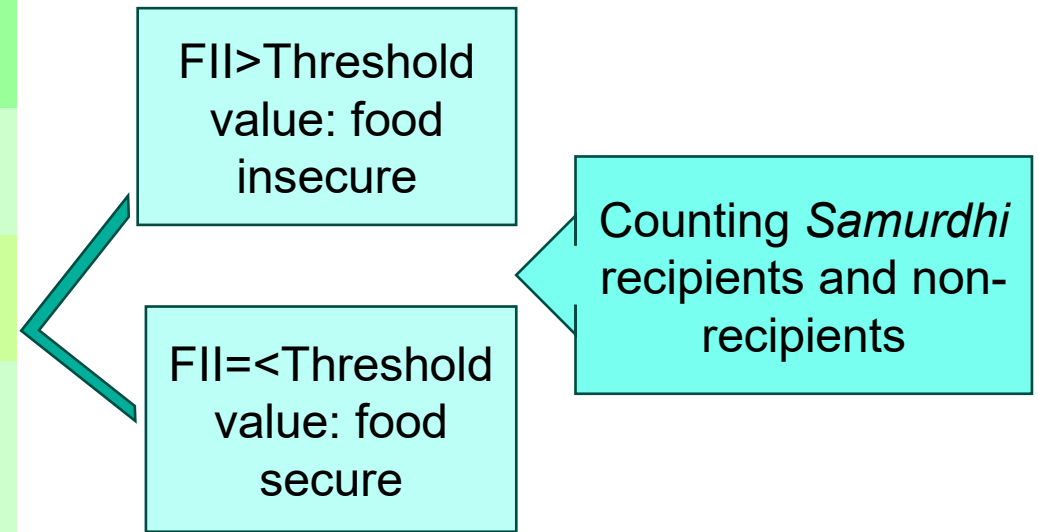


## Method

# Categorization of food-secure and food-insecure households and comparison with current implementation

Deriving of threshold value for Food Insecurity Index

Measurement	Theoretical Potential Value	Reference
HDDS	6	HDDS scale, INDDEX Project, 2018
Per capita monthly income	15,337 LKR	Poverty line, IPS, 2019
Share of food to total expenditure	0.65	Medium food insecure: 50-65", Smith and Subandoro, 2007
Dependency ratio	1	Author's assumption

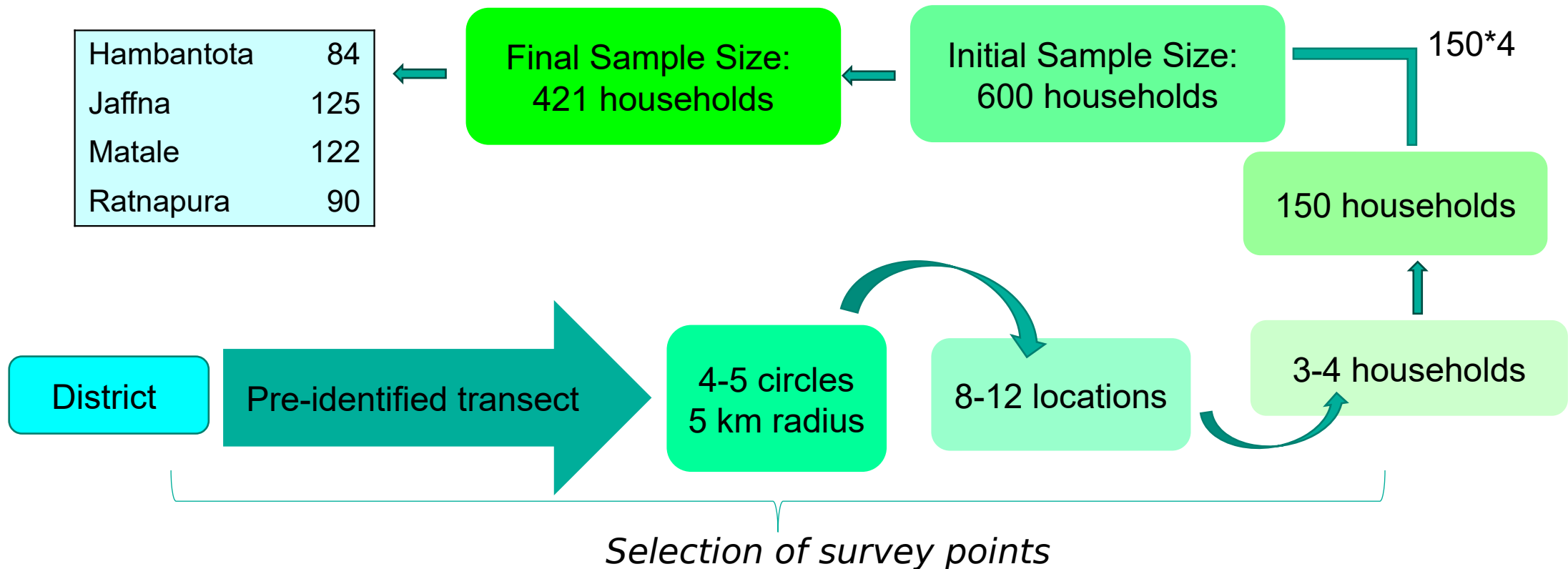


# Method

## Sample Selection

Data collection: Households survey

Sampling: Representation of different agro-ecological regions, climatic zones and vegetation pattern throughout the Sri Lanka



# Results

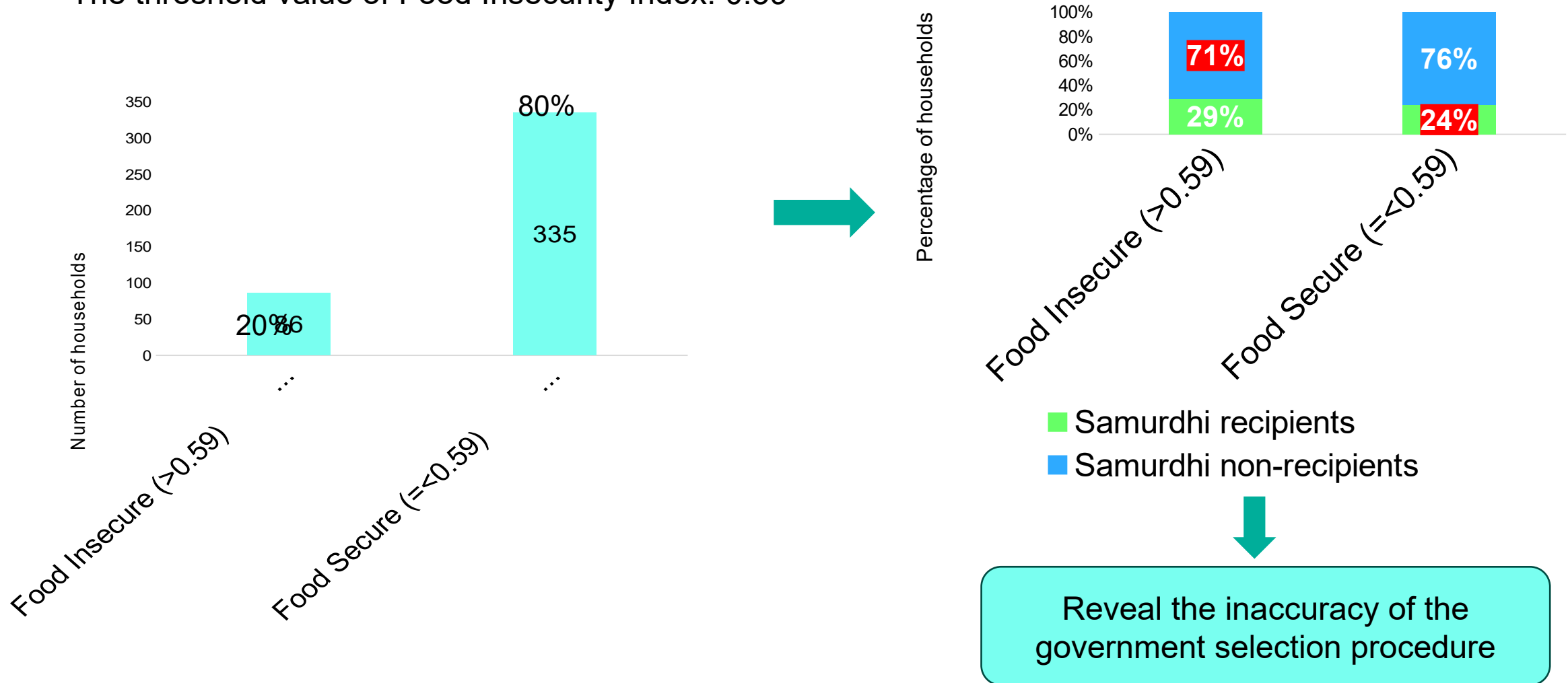
## Summary of the Food Insecurity Index

Index	Variable	Mean $\pm$ SD	Min	Max
<b>Accessibility</b>	Household Dietary Diversity Score	8.09 $\pm$ 1.46	5	12
	Per capita monthly income (LKR)	13,009 $\pm$ 19,072	0	275,000
	Share of food to total expenditure	0.51 $\pm$ 0.18	0.01	1
	Dependency ratio	0.76 $\pm$ 0.66	0	4
<b>Food Insecurity Index*</b>		<b>0.43<math>\pm</math>0.19</b>	<b>0.05</b>	<b>0.98</b>

\*Maximum possible range: 0 - 1

# Results

The threshold value of Food Insecurity Index: 0.59





# Implications

Need to adopt a **robust procedure in implementing national level interventions**

*i.e.*, selection of target groups for subsidies

## The derived index

based on variety of predictor variables

Need to employ **appropriate and easily accessible parameters**

to generalize the present approach at the ground level



Approach for enhancing household food-security  
would be more effective with the appropriate  
resource allocation

