



Presentation Outline

– **POVERTY**

- Measuring poverty
- Consumption aggregate
- Poverty lines
- Poverty rates and poverty gap

– **INEQUALITY**

- Gini Coefficient
- Lorenz Curve

Measuring poverty



- The measure of welfare adopted to assess population living standards is based on household consumption expenditures.
- The main welfare measure, the **consumption aggregate**, was constructed by adding up expenditures of four expenditure components:
 - (i) food expenditures;
 - (ii) non-food, non-durable expenditures;
 - (iii) expenditures on durables; and
 - (iv) expenditures on housing.



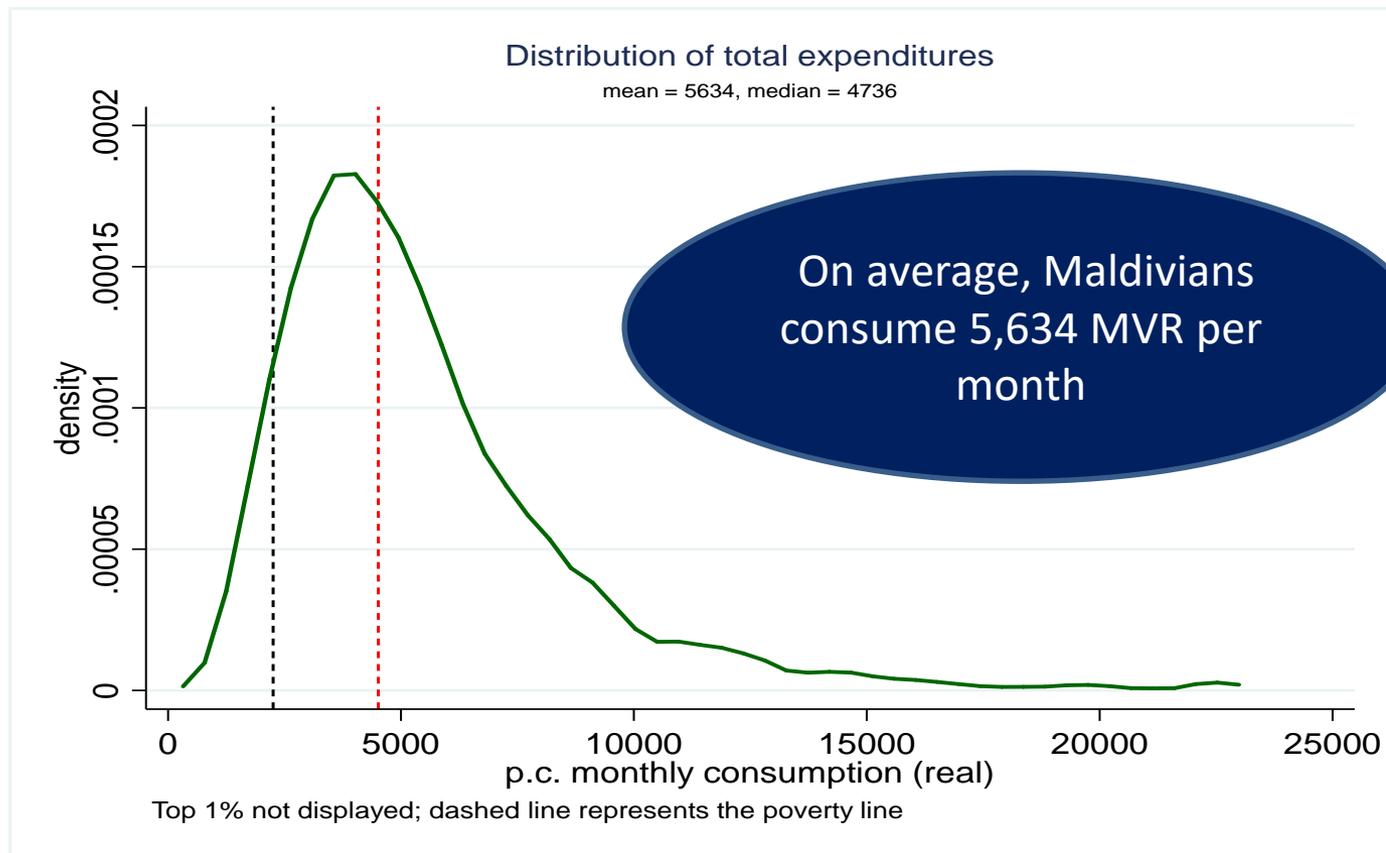
Approach used- where to set the poverty line

- Poverty lines in the Maldives are estimated using a relative approach.
- It is defined in respect to half the median expenditure of the entire population.
- An individual is considered as poor if their level of consumption expenditures is not sufficient to satisfy basic needs,
 - or in other words, if their consumption expenditure falls below the minimum threshold identified by the poverty line.



Distribution of per capita exp.

Distribution of total p.c. monthly expenditures, Maldives



Poverty Lines Used



Poverty Line	Poverty line (Desc)	MVR
National Poverty Line	Half the median of total expenditure	MVR 74
High Poverty Line	Median of total expenditure	MVR 148
International Poverty Line	Upper middle- income poverty line	MVR 70



Poverty head count rate

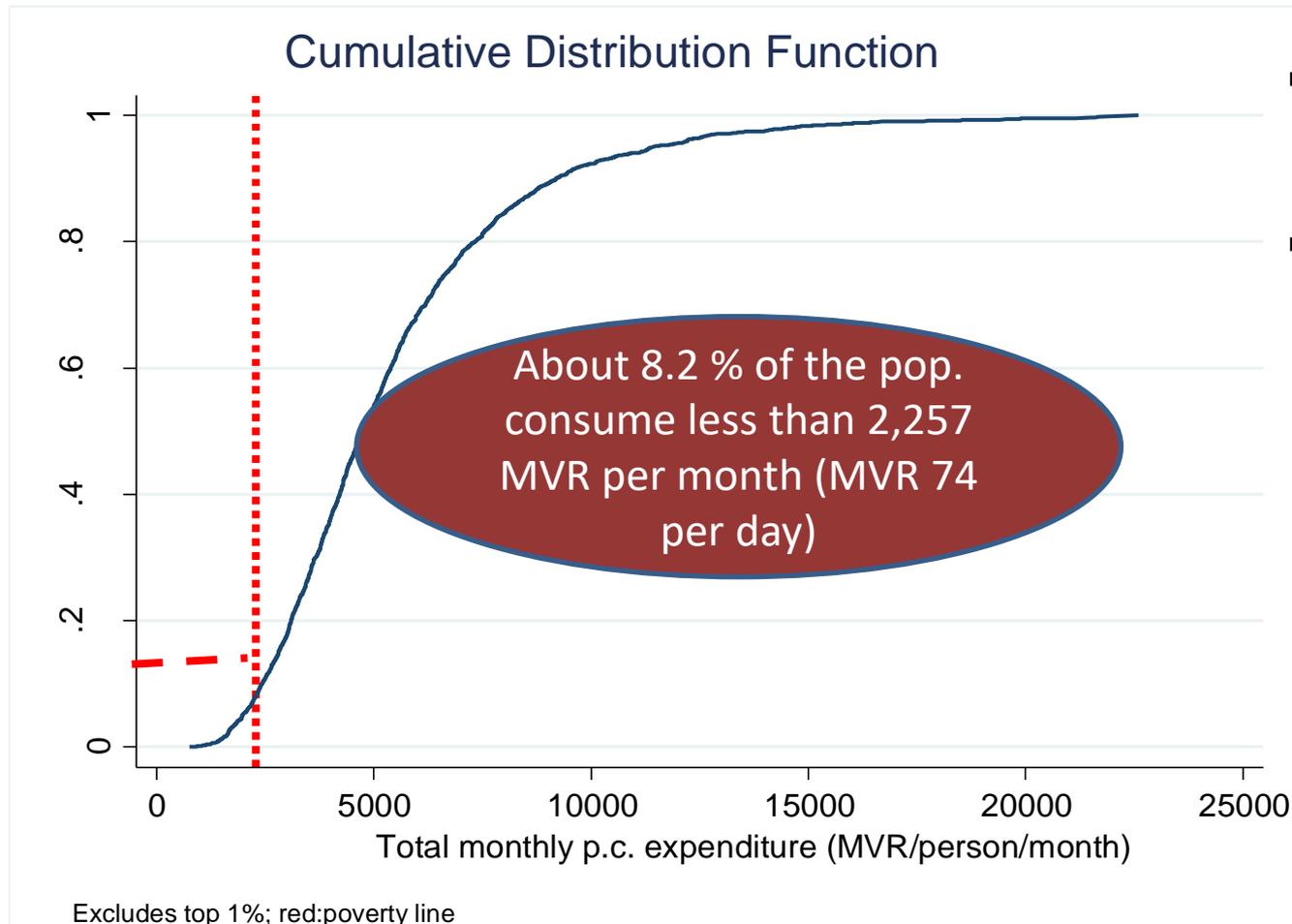
Poverty is unequally distributed across the Maldives with higher poverty rates in the Atolls outside of Male'

POVERTY LINE	POVERTY RATE	POVERTY GAP
HALF THE MEDIAN OF TOTAL EXPENDITURES (MVR 74)	8.2%	1.6%
UPPER MIDDLE-INCOME (MVR 70)	6.6%	1.3%

- Most commonly used measure to display poverty incidence
- Identifies the share of population that lives below the poverty line
- Measured by comparing consumption of each household or individual to the poverty line.



Cumulative Distribution total per capita monthly expenditures



- The steep CDF is a cause of concern
- thus vulnerable to fall into poverty if their household situation changes



Poverty Gap

POVERTY LINE	POVERTY RATE	POVERTY GAP
NATIONAL POVERTY LINE - HALF THE MEDIAN OF TOTAL EXPENDITURES (MVR 74)	8.2%	1.6%
UPPER MIDDLE-INCOME (MVR 70)	6.6%	1.3%

- The poverty headcount rate only shows the proportion of the population that lives below and above a certain threshold but it is not able to show changes that occur near the threshold.
- The poverty gap index measures the depth of poverty by determining the gap between the actual state of an individual and the poverty line.



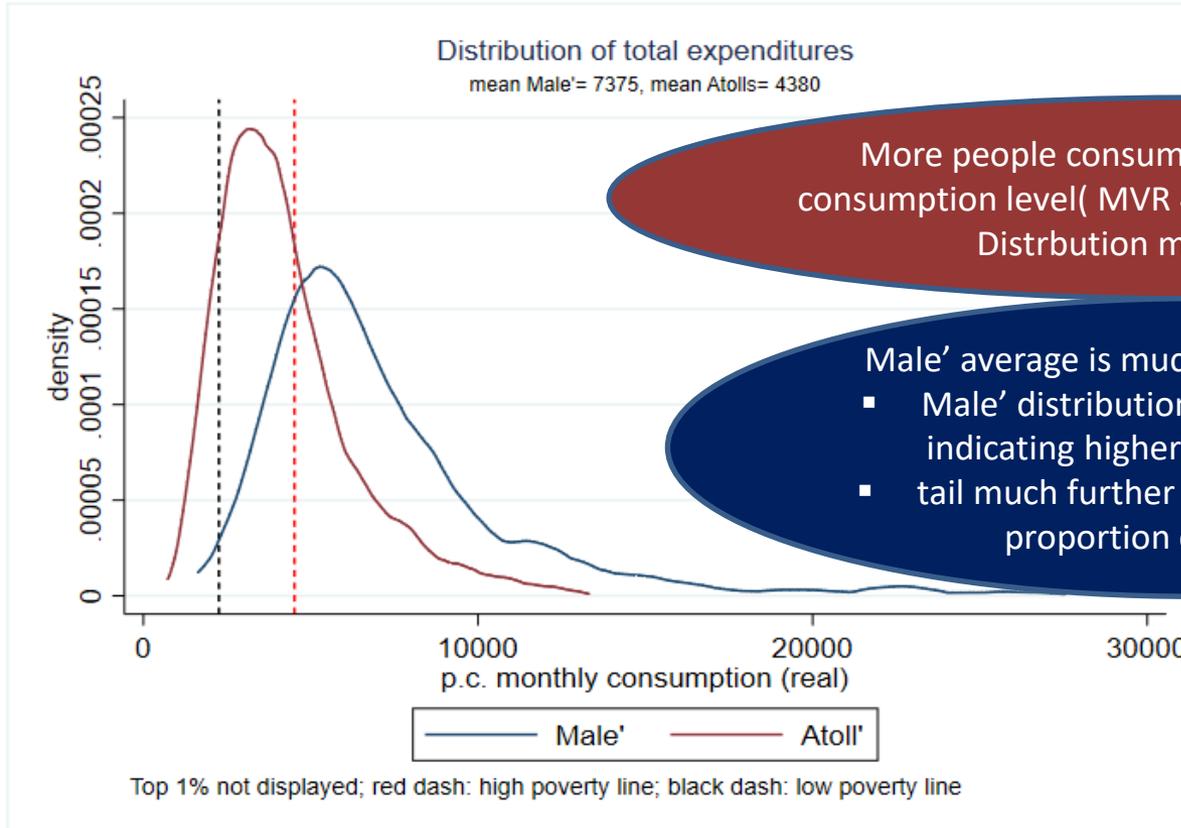
Poverty Gap – budget needed

- Poverty gap index provides a measure of the aggregate size of the monetary transfer required to bring the poor out of poverty, assuming perfect targeting were possible.
- Given a national population of 378,691 in 2016, and using the poverty line of 2,257 MVR per capita per month (MVR 74 per person per day), a poverty gap index of 1.6 % of the poverty line, implies that **an average transfer of 37 MVR per person per month would be needed to eliminate poverty** (total budget of **1.14 million MVR per month**).



Distrbn. p.c. exp. Male' vs Atolls

Large differences in per capita expenditures in Male' and the Atolls



More people consume around the average consumption level (MVR 4380) compared to Male'.
Distribution much narrower

- Male' average is much higher at MVR 7375
- Male' distribution is shifted to the right, indicating higher levels of consumption
- tail much further to the right show small proportion of consumes a lot



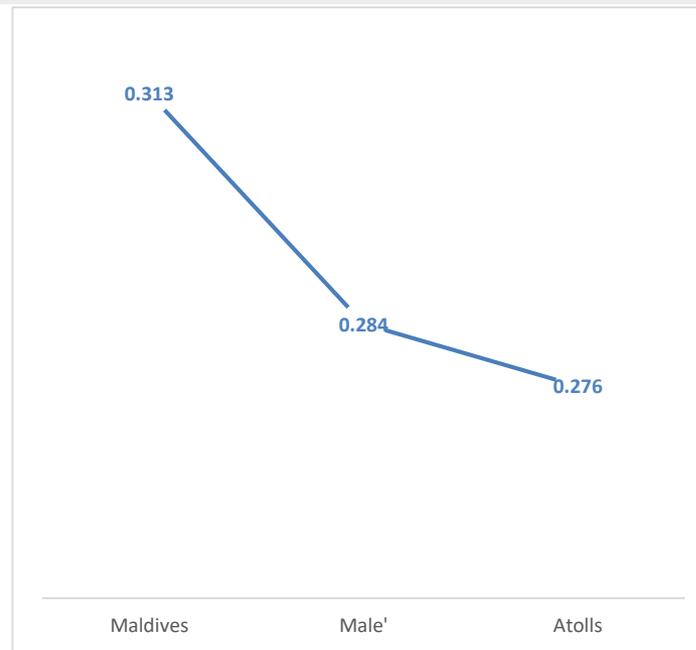
Poverty rates Male' vs Atolls

POVERTY LINE	TOTAL	MALE'	ATOLLS
NATIONAL POVERTY LINE (HALF THE MEDIAN OF TOTAL EXPENDITURES) MVR 74	8.2%	1.7%	12.8%
UPPER MIDDLE-INCOME MVR 70	6.6%	1.5%	10.4%

- Poverty is high in Atolls compared to Male'
- Measured by comparing consumption of each household or individual to the poverty line.



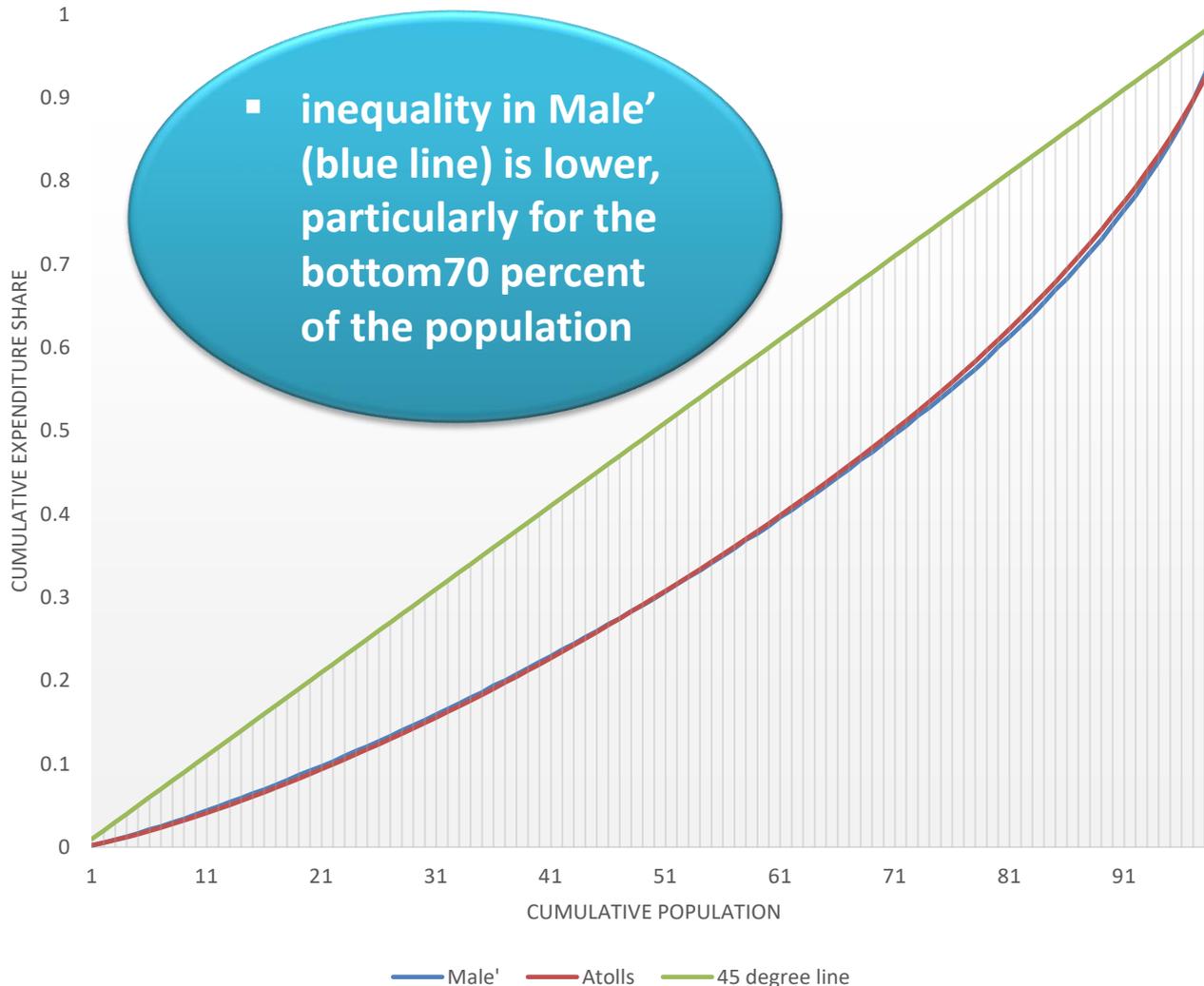
Gini Coefficient



- Gini index measures the extent to which the distribution of consumption among individuals or households differs from a perfectly equal one.
- A value of 0 represents absolute equality with everybody consuming the same amount, a value of 1 absolute inequality, where all consumption is concentrated in one person.



Lorenz Curve



■ inequality in Male' (blue line) is lower, particularly for the bottom 70 percent of the population

Lorenz curve, the expenditure shares for the complete continuum—from poorest 0 percent to the richest 100 percent for the country
If consumption were equally distributed across, we would have perfect equality, which is represented by the 45-degree line.



IMPROVEMENT TO POVERTY MEASUREMENT IN FUTURE

- The methodology used in poverty measurement is always updated with the latest improvement.
- The poverty line in the Maldives uses a relative concept, which means that the poverty line is set relative to the median expenditure of all Maldivians.
- This means that relative poverty is redefined every time new data becomes available as the median expenditure changes.
- As the measure to which poverty is compared to (e.g., median consumption expenditure) is revised upwards, so is the poverty line. For example, if everyone's consumption doubles, the level of poverty remains the same using a relative concept.
- Due to this absolute poverty line has become the preferred choice of poverty measurement in many countries as it is fixed in terms of the level of well-being. In absolute poverty measurement, the poverty line is set in reference to a bundle of consumption that has a fixed purchasing power chosen to cover basic needs.



IMPROVEMENT TO POVERTY MEASUREMENT IN FUTURE

- An absolute poverty line also allows us to overcome the undesirable effect of the relative poverty line which can show constant poverty even when the standard of living of the poor has risen.
- The Cost of Basic Needs (CBN) approach is most commonly used in absolute poverty measurement. It estimates the cost of acquiring enough food for adequate nutrition—measured by a certain amount of calories per day per person—and then adds the cost of other essential non-food expenditures.
- HIES 2016 was designed with the aim to derive a poverty measure based on absolute poverty line. However, due to various data challenges encountered, it was not possible for this methodological change, without further improvements in data quality.
- Learning from the data challenges faced in HIES 2016, concerted efforts will be made to address these issues in the next Household Income and Expenditure Survey in Maldives, to measure poverty using Absolute poverty approach.