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Dilshani N Ranawaka

Dilshani is a Junior Research Professional at the Centre for Poverty Analysis, Sri Lanka.

Her research interests include Behavioural Economics, Complexity Economics, Labour Economics and Economic Modelling. She's currently doing her Master in Economics at the University of Colombo, Sri Lanka.



GINI Coefficient – 39.3 Economic Growth – 3.3%

Literacy rate - 92.3%

MPI - 16%



Research question

What is the impact of external factors in influencing the success of microfinance in Sri Lanka?

- Skills
- Networks
- Population



Hypothesis

Poverty Alleviation is equivalent to wealth accumulation within the model

The numbers taken in to consideration are in unit values where the data is not readily available in Sri Lanka

Methodology

Step 1 – Creating the model

Step 2 - Testing the model

- Syntax testing
- Print statements
- Agent monitors

Step 3 – Statistical analysis of the model

- Hypothesis testing
- Regression analysis



The model

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Results and analysis - Hypothesis testing

Mean wealth of Green turtles vs mean wealth of Sky turtles

t-stat

5.7

Mean wealth of 50 Red turtles vs mean wealth of 10 Red turtles

t-stat

-0.1

Mean wealth of 50 Green turtles vs mean wealth of 10 Green turtles

t-stat

12

Mean wealth of 50 Green turtles vs mean wealth of 50 Red turtles

t-stat

3.3

Results and analysis -Regression results Intercept Growth rate Number of turtles Repayment number 106.43 63.89 Connections per node 3 Interest rate



Key takeaways

The impact of external environment such as education, the ability convert ideas into action, the economic growth of the region, population and the repayment number has positive implications of enabling a person who takes a loan into a more productive outcome which is not reflected in the existing literature.



It is important to take into account external factors as well, when evaluating the efficacy and the impact of microfinance loans.

Therefore, regional disparities, educational level, population and the person's ability to convert a loan into a productive income generating income are important to be taken into consideration.



Thank you

Dilshani N Ranawaka

+94 77 892 1227

dilshanin.ranawaka@gmail.com

dilshani@cepa.lk

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