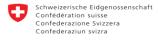


Women's risk and time preferences: Can they predict their disempowerment?

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Background

- Follow up and extension to the 2018 study: first time Women's empowerment levels were quantified and measured
- Can we link disempowerment to RTPs (risk taking and future orientation)?
- RTPs have been shown to be fundamental preferences related to savings, investments, occupational choice, labor supply, farming decisions, entrepreneurship ...
- If some women are systematically less prone to take risks or less future oriented → more likely to opt out of a wide range of economic opportunities
- More cost-effective to target interventions to the ones that really need it e.g.,
 women that are less prone to take risks or less future oriented

Measurement of Disempowerment

- 1. Production: Input in productive decisions
- 2. Resources:

Ownership of assets

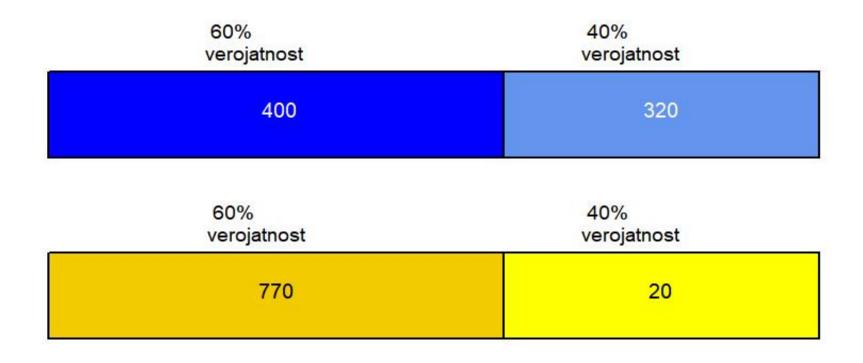
Access to and decisions on credit

- 3. Income: Control over use of income
- 4. Leadership: Group membership

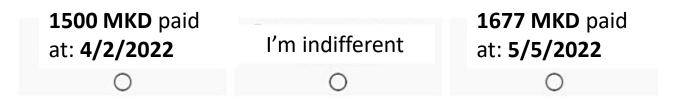
Active member in at least one association

5. Time: Workload Inadequate if works more than 10.5 hours per day

Measurement of Risk preferences



Measurement of Time preferences (future orientation)





Sample (wave I)

- **Group I (control):** 100 women not eligible to apply for the measure 115 and received no money
- **Group II (rejected):** 100 women who applied for the measure 115 but received no money as being rejected
- **Group III (approved):** 100 women who applied to the program and received money
- 10 Advisors from National Extension Agency, phone interviews (November-December 2021/2022)

Sample (wave II)

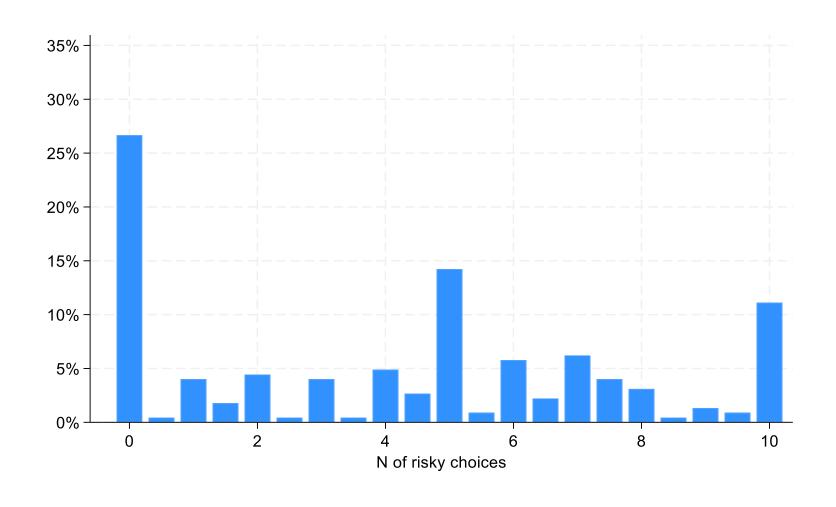
■ **Group III (approved):** 100 women who applied to the program and received money — After receiving training intervention

2 Advisors from National Extension Agency, phone interviews (November-December 2021/2022)

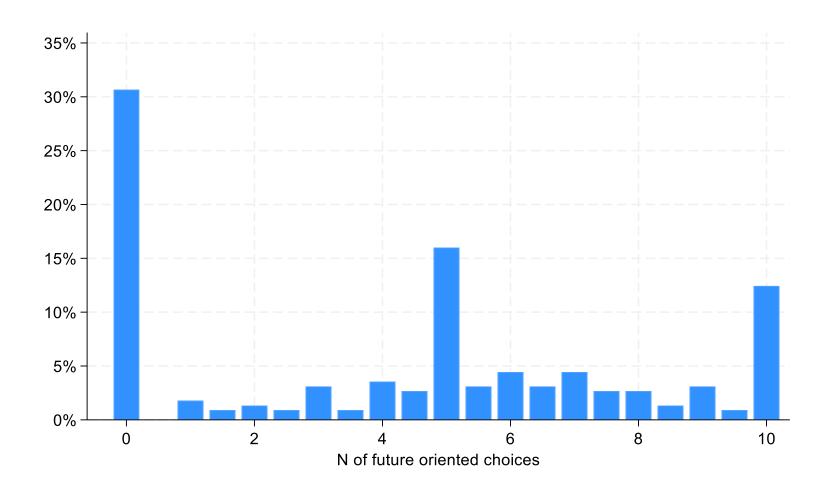
Results: Disempowerment

| | Wave 1 | Wave 2 | Total |
|----------|--------|--------|-------|
| Control | 0.384 | | 0.384 |
| Approved | 0.196 | 0.207 | 0.202 |
| Rejected | 0.249 | | 0.249 |
| Overall | 0.273 | 0.207 | 0.254 |

Results: Risk aversion



Results: Future orientation



Results: RTPs structural estimates

➤ Let the utility function be the CRRA specification:

$$U(M) = \frac{M^{1-r}}{1-r}$$

> Assume EUT:

$$EU_i = \sum_{j=1,2} p_i(M_j)U(M_j)$$

 \succ With respect to time preferences, we can write the indifference between two income options M_t and $M_{t+\tau}$ as:

$$U(M_t) = \frac{1}{(1+\delta)^{\tau}} U(M_{t+\tau})$$

Results: Disempowerment and RTPs

- Weak support that either risk or time preferences are related to the Disempowerment index
- The group of women that were approved for the program, exhibit *lower* levels of disempowerment
- ➤ Women that were rejected from the program are similar disempowerment levels as the control group
- > Intervention did not directly affect women's disempowerment level

Conclusions and recommendations

- > We found no effect of either risk or time preferences on Disempowerment level
- > Some indication that approved women for the program have lower DAI
- ➤ In the short time interval between the Intervention and measurement of disempowerment, no effects of the intervention could be detected
- > It is highly possible that there is a time lag before any intervention can show it's full effect
- ➤ Repeated measurements of Disempowerment levels at 6- or 12-month intervals are recommended