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## Measuring repayment burden of student loans

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## Why care about repayment burden?

- ✤ Repayment burden reflects how difficult it is for debtors to repay the debt
- ✤ It is central to the analysis and design of student loans
  - $_{\odot}$  For debtors, RB determines:
    - The consumption sacrifice associated with repaying debt
    - The risk of default and credit reputation loss in case of severely high RB
    - Repayment anxiety associated with high expected RB

 $_{\odot}$  For government (as lender or guarantor), RB indicates:

• How much government potentially needs to subsidize for default





### Current measure of RB is problematic

#### **Definition:**

 $RB_{it} = \frac{repayment \ amount \ in \ period \ t \ for \ debtor \ i}{labor \ income \ in \ period \ t \ of \ debtor \ i}$ 

#### **Assumptions:**

- Debtor has only labor income
- Debtor receives no financial support
- Ignore consumption needs
- ✤ Ignore income tax

- $\rightarrow$  over-estimate RB
- $\rightarrow$  over-estimate RB
- → under-estimate RB
- → under-estimate RB

#### → Incomplete picture of repayment ability



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## Rethinking debtor's repayment problem

- ✤ Re-visit the meaning of RB:
  - $_{\odot}$  Who actually repays the debt?
  - $_{\odot}$  Whose welfare is affected by the repayment obligation?
  - $_{\odot}$  From what sources does the money come from?
  - $_{\odot}$  What is an excessive level of RB?
- Four proposed measures to capture
  - the intra-household allocation of:
    - $\circ$  Income
    - o Consumption
    - Repayment obligations





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# Relaxing RB assumptions - evidence from Korea

- RB of time-based repayment loan is more affordable than previously thought, esp. for young graduates and low-income graduates
- Inequality in RB across the graduate income distribution is less acute, especially between the poorest 20% and the richest 20%
- RB is also less volatile over a debtor's life-time
- Ignoring non-labor income considerably overestimates RB, esp. for the bottom 20%, who are more likely to receive social assistance and private financial support from family and relatives





## Implications for student loan analysis

- The notion of repayment burden and consumption hardship should be interpreted with more nuance
  - Consumption hardship as a reduction in the "usual" wellbeing that debtors would experience in the absence of RB and given their income, or as "falling into poverty"?
- Loan design should account for:
  - Non-labour incomes and potential intra-household sharing of income and repayment obligations →to ensure effective collection of repayment and minimize unduly subsidies
    Debtor's consumption needs and income tax → to ensure loan repayment is affordable
- Country-specific context, including cultural factors and labour market features, matters.

