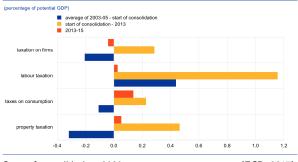
Revisiting Tax on Top Income Ayşe İmhrohoğlu, Cagri Kumi and Arm Nakornthab, 2017

Discussed by Johannes Fleck

Winners, Losers and Policy Reforms after the Euro Crisis –
 November 17, 2017

The European debt crisis and tax changes





Start of consolidation: 2009 (ECB, 2017)

- ▶ Increasing (labor) taxes was part of Euro Area fiscal consolidation
- ▶ Additional fiscal adjustments are waiting for the Europeans...
- ▶ Time for a (re)assessment:
 - What were the effects of the recent tax changes?
 - ▶ How to design future revenue increases?

The paper in a nutshell (1/2)

- 1. Model: incomplete markets with heterogenous agents
 - Agents are risk averse and value consumption and leisure
 - Agents have corporate and entrepreneurial abilities (y_t, θ_t)
 - Two generations and life cycle
 - Young decide to work in one of two sectors

C:
$$F(K_t^c, L_t^c) = A(K_t^c)^{\alpha} (L_t^c)^{1-\alpha}$$

- E: $f(k_t, n_t) = \theta_t \left(k_t^{\gamma} (l_t + n_t)^{1-\gamma}\right)^{\nu}$
- Entrepreneurs can continue to work or may retire once old
- Corporate workers have to retire in old age
- Old who have to exit the model re-enter as young
- Government's parametric tax function

$$T_t(Y_t) = \begin{cases} (1 - \lambda Y_t^{-\tau}) Y_t + \tau_t^{bal} Y_t + \tau_t^k r_t a_t & \text{if } Y_t < Y_H \\ (1 - \lambda Y_H^{-\tau}) Y_H + \tau_t^{bal} Y_H + \tau_t^k r_t a_t + \tau_H (Y_t - Y_H) & \text{if } Y_t > Y_H \end{cases}$$

where Y_H is the top 1% income threshold

The paper in a nutshell (2/2)

- 2. Calibrate model to match data income and savings in particular
 - Strategy: adjust transition matrices for abilities $\pi(y'|y)$ and $\pi(\theta'|\theta)$ and their grid point values ('superstars')
- 3. Effects of changing the tax code? \rightarrow Policy experiments I to IV

Objective	$\Delta \tau$ (Overall progressivity)	$\Delta \tau_H$ (Marginal rate top 1%)
Maximize Revenue	I	II
Maximize Welfare	III	IV

- ► Revenues comprise federal, state and local and corporate taxes
- Welfare is measured in consumption equivalent terms

Contribution

- ► Tractable model fitting empirical earnings and savings well
- ▶ Relative to the baseline
 - Revenue maximization: increase top 1% marginal tax more effective; 'fewer distortions because smaller number of entrepreneurs affected'
 - Welfare maximization: increase overall progressivity more effective; 'wealth share of top 1% same, top 10% decreases, below increases'
- Comparisons to similar studies
 - ▶ Badel and Huggett (2015)
 - Guner, Lopez-Daneri and Ventura (2016)
 - Kindermann and Krueger (2017)

My first two comments and suggestions

- 1. The paper explores a policy question but motivation is scarce
 - → Extend non-technical description or focus on a specific story
 - ▶ Does it relate to the current debate on US tax reform?
 - Can it speak to the issue of entrepreneurial mobility?
- 2. Some of the model assumptions would benefit from additional details
 - → Provide empirical support or show results are robust
 - Only entrepreneurs allowed to borrow
 - Returns independent of portfolio size and composition (and activity)

My last comment and three related suggestions

- 3. Go further in characterizing model properties and results
 - \blacksquare Discuss transitions: can they change your results (or not)?
 - In general, changing 'tax mix' can have different distributional consequences along the adjustment path towards steady state
 - $\mathbf{2} \rightarrow \mathsf{Further}$ decompose tax reform effect on steady state allocations
 - Variance of agent's after-tax income and cost of insurance via labor and asset market not invariant to reform
 - 3 → Elaborate on elasticities (labor and capital supply, activity)
 - Sharpens the comparison to papers such as KK 2017;
 e.g. persistence of their highest earning state much lower
 - Helps to determine the trade-offs related to changing the tax system;
 key to understand why tax rates are optimal for a given objective

