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Do Remittances Promote or Deter Sound Fiscal Management Among Municipalities in Mexico?

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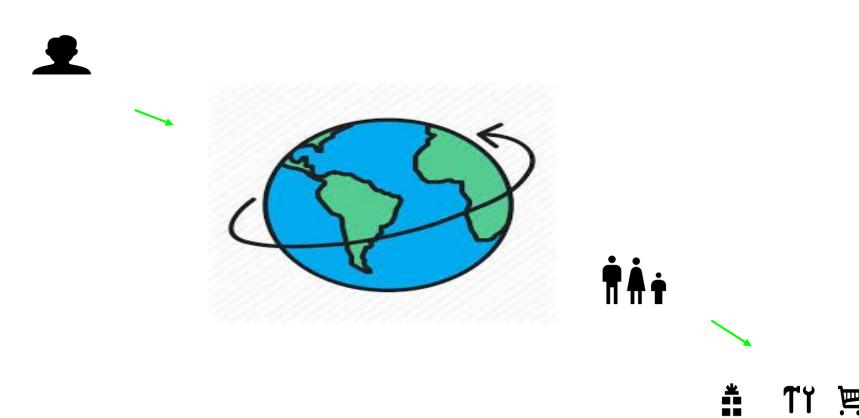
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Do Remittances Promote or Deter Sound Fiscal Management Among Municipalities in Mexico?

Jennifer Martinez Public Affairs and Policy Doctoral Student Portland State University Symposium May 2, 2018

What is a Remittance?





History of Failed Decentralization

Decentralization: the delegation of power from a central authority to regional and local authorities (Merriam-Webster).

- Fiscal Coordination Law 1978
 - Strengthened State-Local revenue sharing
- **Constitutional amendment** aimed at local governments (Article 15)
 - Power to administer basic services
 - own-source revenues



Two Stark Narratives

Municipal Tax Revenue

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- Municipal revenues only .2% of Mexico's GDP.
- Own-source revenues are only
 7 percent of the total municipal revenue portfolio (Smith 2015).
- Property tax lowest in OECD countries (OECD 2015).

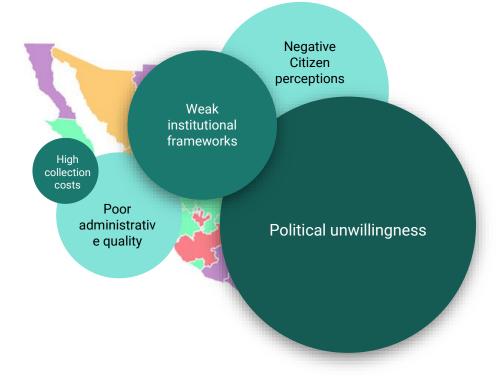
Remittances



- Remittances make-up 2% of Mexico's GDP (World Bank 2016).
- In 2016 remittances reached an alltime high of US\$26.97 billion (BBVA Bancomer 2017).
- In 2000 over a million Mexican households received remittances (INEGI 2000).

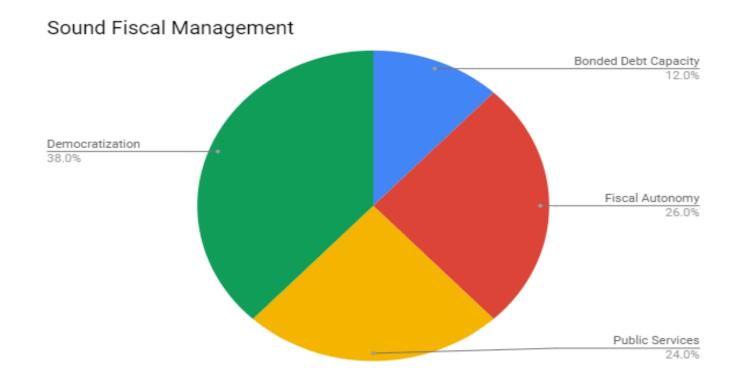
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Determinants of a Poor Fiscal System



Map Source: Inegi.org.mx

Why Does it Matter?



Contention in Remittance Scholarship

1st

(De Hass 2010; Durand, Kandel, and Parrado 1996, 424; Wise and Marquez Covarrubias 2008).

2nd

(Adams and Cuecha 2010; Hanson and Woodruff 2003; Edwards, and Ureta 2003; Amuedo-Dorantes and Pozo 209; Valero and Trevino 2010; Woodruff 2007; Ambrious 2012). **3rd**

(Canales 2000; Corona 2001;Delgado Wise and Rodrigues 2001).

- Spent on "Daily Consumption"
- Damaging economic and social development

 Enable "capital" and "professional" investments

 Rudimentary institution for asset building and risk Success of remittances
 constrained by overall
 economic context of country.

 Exacerbate impacts of macroeconomic structural policies in North and South

North and South Differences



Research Questions

- Is there a relationship between remittance income and municipal tax revenues throughout the 31 states?
- Does the relationship change when comparing northern-border states to southern states?

Hypotheses:

Ho: No relationship exists between remittance and municipal tax revenue.

Ho: No difference exists between north and south municipal tax revenues.

Methods

• Time series 2003-2016

- Municipal tax-revenue aggregated at state level
- Remittance data by State
- Adjusted to per capita terms
- Dichotomous variable referencing Northern-Border States

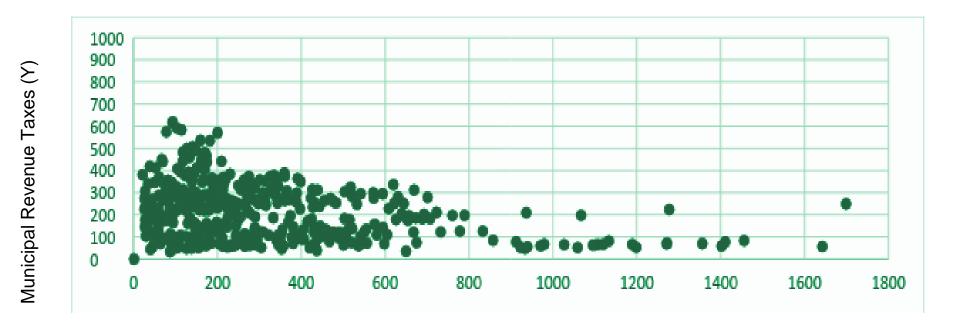
- T-Test and Multiple Regression Test
- Data Sources
 - INEGI
 - Banco de México

Y(Muni Tax Revenue)=a+b1X1 (Remittance Income)+b2X2 (Northern-Border State)

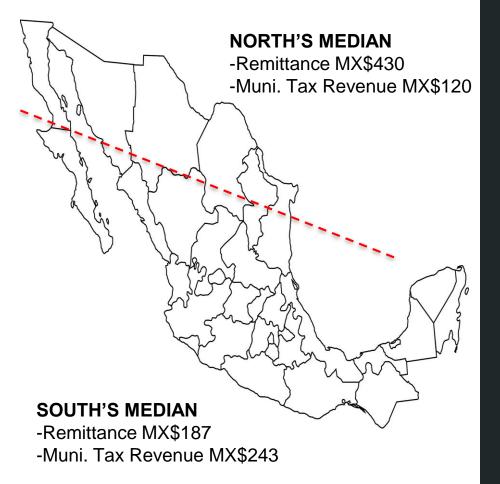
Existing Research

- Indirect and multiplier effects in local economy and overall fiscal composition of government (Durand, Parrado, Massey 1996).
- State level impacts of VAT and show remittance expand size of state (SInger 2012)
- Three-for-One Program allow municipalities to change spending behavior according to electoral cycle and underutilize debt capacity (Simpser, Duquette-Rury Hernandez, Ibarra (2016).
- Remittances crowd-out municipal federal transfers (Ambrosius 2016)

Chart 1. Scatter Plot



Remittances (X)



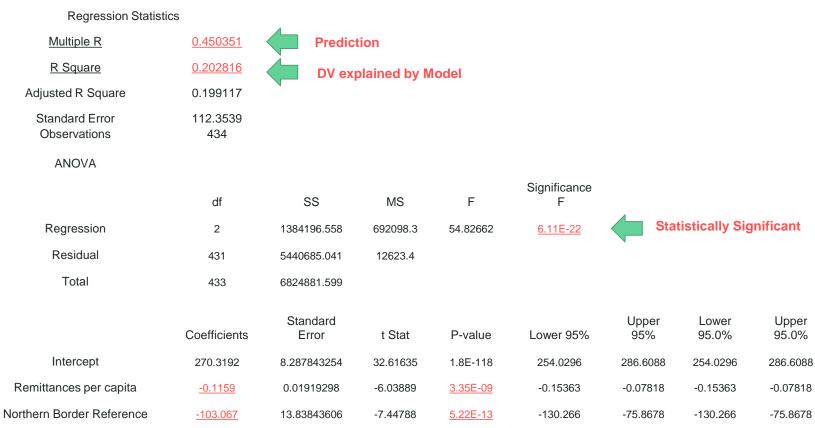
Statistically Significant Difference between N&S

T-Test Results:

Remittances, P value 2.43478E-06

Muni-Tax Revenues, P value 5.3397E-38

Multiple Regression Findings



Multiple Regression Findings

Y(Muni Tax Revenue)= 270+ -.11X₁ (Remittance Income)+ (-103)X₂ (N.State)

- For every MX\$1 tax revenue MX-\$.12 in remittance.
- For every MX\$1 in tax revenues, Northern Border states receives MXN\$103 less.

Final Remarks

Findings

- Remittance may act as a subsidy to municipal tax
- Northern-Border states are not better tax collectors and receive significantly more remittance income

Limitations

- Include Immigration as a control variable
- Leave in the municipal richness

Implications

- Further explore remittances on northern-border
- Explore property tax frameworks