Cross-Sectional Variation of Title Insurance Premiums

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Homer Hoyt Conference

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What is Title Insurance?

Purpose:

- Ensures Buyer/Lender that Seller has the right to transfer property free and clear of encumbrances (lenders, mechanics, heirs)
- Title Assurance Evolved to Title Insurance

Benefits of Title Insurance

- Increased Property Rights and Values
- Increased Liquidity of Asset & Mortgage Loan

Overview of Title Insurance Industry

\$14.5b in Residential Fees in 2017

Title Insurance Eriksen et al (2017)

Title Insurance in the News

Spitzer Strikes Deal With Title Insurance Companies BY WRITER MAY 24, 2006 7-51 AM

Title insurance is a scam and it's time for a government takeover

lowa's state-run system is by far the cheapest in the nation—and the most effective By Jeff Andrews | Feb 26, 2018, 4:35pm EST

FBI investigation: Ex-Ohio Speaker Cliff Rosenberger suspected of bribery, extortion

Jessie Baimert and James Pilcher, Cincinnati Enquirer Published 9:40 a.m. ET Aug. 27, 2018 | Updated 11:10 a.m. ET Aug. 28, 2018

Title Insurance in the News

5,221 views | Jun 22, 2018, 08:30am Will The Power Of Blockchain Mean The End Of Title Insurance Companies In 20 Years?







INVESTMENTS LENDING

First American, Old Republic Title bringing blockchain to title insurance

Old Republic will use First American-designed blockchain solution

November 28, 2018 Ben Lane

^{*}The authors are solely responsible for the contents, findings, and views expressed in this paper, which do not necessarily reflect the opinions of their respective employers.

Impact of Blockchain

Create More Secure Chain of Title

- Easier to Identify Owners (w/ Password)
- **Encumbrances Still Possible without Torrens**

Reduced Labor Costs for Insurers

- Easier to Validate Chain of Title
- Estimated 20% Reduction in Expenses
- Unclear How Much Consumers will Actually Gain from Technology Gains if Industry is not Competitive

Title Insurance Eriksen, Fout, and Slezak (2019)

Research Question

What Explains Cross-Sectional Variation in Title Insurance Premiums?

- Effect of State Regulation and Laws
- Market Power at State, Local, & Lender Level

Data:

- Closing Fees for 1m Loans from Fannie Mae
- State Aggregated Losses and Net Premiums from National Association of Insurance Commissioners' (NAIC)

Important Caveats to Disclose

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Outline of Presentation

- **Real Property Transfers in US**
- **Policy Coverage and NAIC Claims**
- III. Overview of UCD Data
- IV. Results
 - State Regulation & Restrictions
 - Market Power at State and Local Level
- **Unclear Promise of Blockchain**

Real Property Transfers in US

Predominant System is Recording

- Local Government Records All Conveyances
- Courts Determine Rightful Chain of Title
- Past and Future Encumbrances Do Not Need to Be Recorded in Order to be Valid
- Private Insurers Investigate & Validate Transfer

Alternative System is Torrens

- Must Register Conveyance w/ Gov't
- Gov't Determines Validity; Sometimes Insures
- 10 States Allow; Most Common in MN

Real Property Transfers in US

Advantages of Recording System

- Less Burden on Local Gov't and Courts
- **Profit Motives Improve Accuracy**

Disadvantages of Recording System

- Easier to Commit Fraud
- Title Abstracts Prone to Typographical Errors

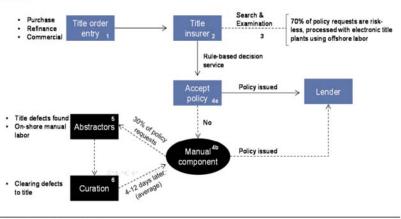
Disadvantages of Torrens System

- Fixed Costs of Initial Registration of Property
- GSEs still Require Title Insurance

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Title Search Process

Exhibit 31: Title search is a manually intensive process, as abstractors and curators must process and clear paper-based property records - 30% of which are found defective at the time of the proposed transaction (sale/refinancing) Title search process



Source: Goldman Sachs Global Investment Research

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TI Policy Coverage

Covers Defects in

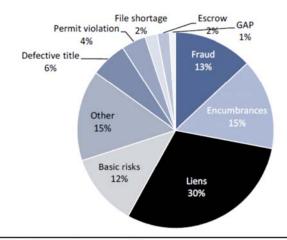
Records, Forgeries, Incompetent Grantors, Incorrect Marital Statements, Improperly Delivered Deeds, and Unrecorded Liens

Does NOT Cover:

- Defects and Liens Stated in Policy
- Defects Known to the Buyer
- **Environmental and Zoning Changes**
- **Eminent Domain**

Goal: Identify and Eliminate Risk Upfront

Sources of Title Claims



Source: First American Financial

Industrial Organization

Two Insurance Policies

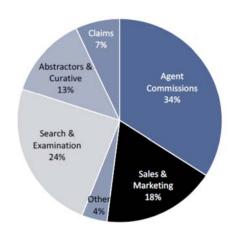
- Owner Policy Covers Personal Equity; Optional
- Lender Policy Covers Title Related Losses Following Foreclosure; Required for Federally Related Loans

Local Title Agent or Lawyer at Closing

- May or May not Affiliated w/ Insurer
- Corrects Minor Deficiencies; Provides Opinion
- Receives 70-90% of Insurance Premium
- Charges Borrower Other Related Closing Fees

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Industry Cost Structure



Source: Goldman Sachs Global Investment Research

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Prior Research on TI

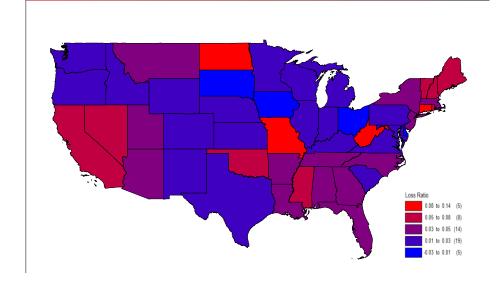
Highly Concentrated Industry

- 4 Insurers Represent 86% of Industry
- Single Companies Represent +50% in States
- Fidelity (34%) Acquired Stewart (11%) in '18
- No Direct Evidence Acting Like Monopolist

Limited Losses from Actual Claims

- Average of 3%; Range from 1-to-14%
- Only Aggregate Data Available from NAIC
- Profitability Unclear Given Upfront Mitigation and Compensation of Local Agents & Brokers

Loss Ratios from NAIC



Other Related Literatures

Importance of Strong Title

Torrens System Provides Stronger Property Rights and Values (Micelli et al., 2007).

Affordability of Home Ownership

- Large Literature on Discriminatory Practices
- Benefits of Shopping (Woodward & Hall, 2012)

Reverse Competition

Pharmaceutical Industry (Alpert et al., 2013)

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Role of State Government

Direct Intervention

- Iowa has Centralized Insurance Pool
- Torrens System of Land Registration

Rate Regulation

3 Main Categories

Limiting Affiliated Business Arrangements

Prevention of Reverse Competition

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Data

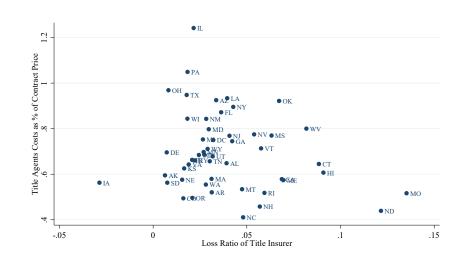
National Association of Insurance Commissioners (NAIC)

- 2017 State Aggregated Data by Company
- Net Premiums Earned and Adjusted Losses

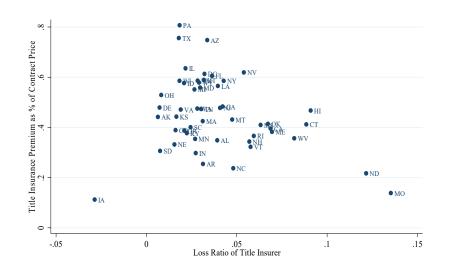
Uniform Closing Disclosures (UCD) Data

- 24m Title Fees from 4m Loan Originations
- October 2017-September 2018
- Focus on Fees from 950k Purchase Loans
- Exclude Iowa from Most Regressions

Title Agent Fees as % of Price



TI Premiums as % of Price



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Types of State Regulation

File & Use (17 States)

- Publicly Reveal Premium Rate Schedule
- Regulators May Ask for Revisions (Rare)

Prior Approval (23 States)

Regulator Must Approve Premiums Upfront

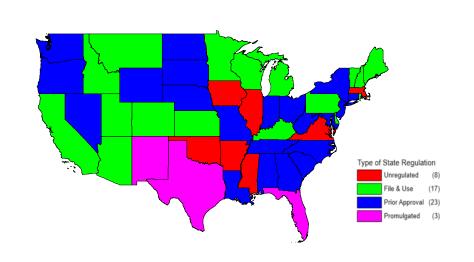
Promulgated (3 States)

Regulator Directly Sets Rate Schedule

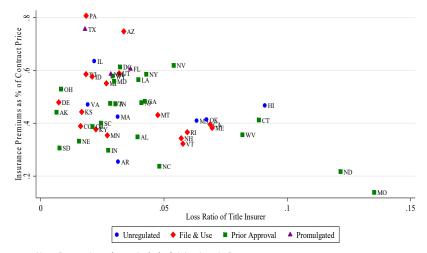
8 States Have No Regulation of Rates

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Map of Rate Regulation



Average Insurance Premiums



Note: Regressions do not include Originations in Iowa

State Regulation of Premiums

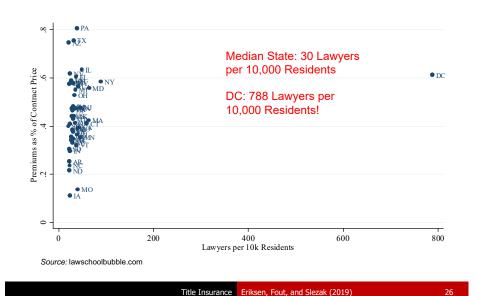
	(1) (2) Insurance Premiums	(3) (4) ln(Insurance Premiums)		
Regulation of TI Premiums		A R HILL HOLD THE REAL PROPERTY OF THE REAL PROPERT		
File & Use	33.346	0.106		
	(132.269)	(0.108)		
Prior Approval	-138.738	-0.119		
	(116.212)	(0.128)		
Promulgated	484.717***	0.373***		
	(153.691)	(0.111)		
ln(loan amount)	171.262***	0.237***		
	(40.045)	(0.026)		
In(Purchase Price)	758.357***	0.517***		
	(93.509)	(0.057)		
Observations	950,177	950,177		
R-Squared	0.28	0.30		

Note: State-Clustered Standard Errors in parentheses

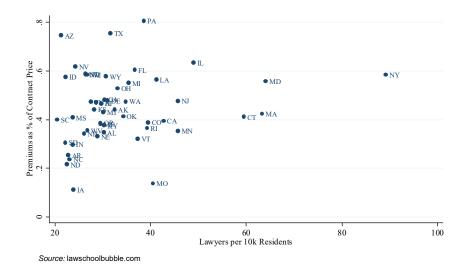
Title Insurance Eriksen, Fout, and Slezak (2019)

25

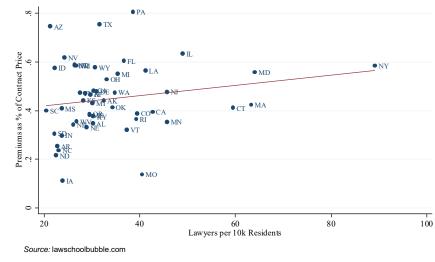
Lawyers per 10k Residents



Lawyers per 10k Residents



Lawyers per 10k Residents



State Regulation of Premiums

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Affiliated Business Agreements

Real Estate Settlement & Procedures Act

- Prohibits Referral Fees to Brokers and Agents
- Kickbacks Thought Harmful to Consumers

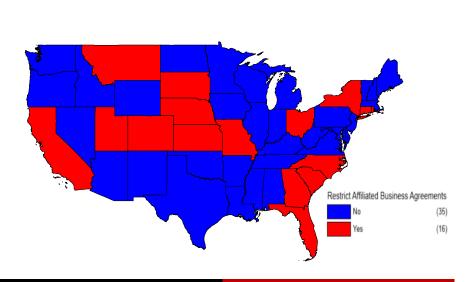
Affiliated Business Agreements (ABAs) are allowed under RESPA if Following:

- Disclosure to Buyer within 3 days of Referral
- Buyer is not Required to Use Services
- Equity Interest; Fees "Reasonable" for Services

16 States Place Add'l Restrictions on ABAs

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Map of ABA Restrictions



Affiliated Business Agreements

	(1)	(2)	(3)	(4)	(5)	(6)	
	Insurance Premiums			ln(Insurance Premiums)			
Restrict ABA	-277.128***			-0.261**			
	(98.699)			(0.099)			
Regulation of TI Premiur	ns						
File & Use	150.256			0.216*			
	(139.611)			(0.112)			
Prior Approval	0.600			0.012			
17.5	(107.831)			(0.108)			
Promulgated	622.033***			0.503***			
	(102.611)			(0.086)			
Price and Loan Amount	Yes			Yes			
Include Iowa	No			No			
Observations	921,763			921,763			
R-Squared	0.294			0.325			

Note: State-Clustered Standard Errors in parentheses

What Happens in Iowa?

Title Insurance Made Illegal in 1947

- Local Attorney Still Provides Title Opinion
- Public Investment in Registration System
- Prevented Participation in Secondary Markets

Iowa Title Guaranty

- Created in 1980's as State Monopoly
- \$110 per Policy up to \$500,000
- Required Unless Out of State Lender
- Profits Invested in Affordable Housing

Title Insurance Eriksen, Fout, and Slezak (2019)

Iowa Guarantee Corporation

	(1) Insu	(2) grance Premius	(3)	(4) ln(Inst	(5) grance Premi	(6) iums)
Restrict ABA						
Restrict ABA	-277.128*** (98.699)			-0.261** (0.099)		
Iowa						
Regulation of TI Premiur	ns					
File & Use	150.256			0.216*		
	(139.611)			(0.112)		
Prior Approval	0.600			0.012		
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Title Insurance Eriksen, Fout, and Slezak (2019)

Affiliated Business Agreements

	(1)	(2)	(3)	(4)	(5)	(6)
	Insurance Premiums			ln(Insurance Premiums)		
Restrict ABA	-277.128***		-276.560***	-0.261**		-0.261**
	(98.699)		(98.726)	(0.099)		(0.099)
Iowa		-835.486***	-828.115***		-1.721***	-1.714***
		(78.893)	(79.092)		(0.069)	(0.068)
Regulation of TI Premiur	ns					
File & Use	150.256	32.928	150.502	0.216*	0.105	0.216*
	(139.611)	(132.065)	(139.489)	(0.112)	(0.108)	(0.112)
Prior Approval	0.600	-139.854	0.184	0.012	-0.120	0.012
	(107.831)	(116.611)	(107.743)	(0.108)	(0.129)	(0.108)
Promulgated	622.033***	481.241***	621.536***	0.503***	0.371***	0.503***
	(102.611)	(153.475)	(102.587)	(0.086)	(0.111)	(0.086)
Price and Loan Amount	Yes	Yes	Yes	Yes	Yes	Yes
Include Iowa	No	Yes	Yes	No	Yes	Yes
Observations	921,763	927,714	927,714	921,763	927,714	927,714
R-Squared	0.294	0.282	0.299	0.325	0.328	0.351

Note: State-Clustered Standard Errors in parentheses

Role of Market Power

4 Companies Represent 86% of Industry

- Fidelity, First American, Stewart, Old Republic
- 27 Other Unaffiliated Insurance Companies

Do More Concentrated Markets Have Higher Title Insurance Premiums?

- State-Level w/ Other Attributes
- County-Level w/ State Fixed Effects

Herfindahl Index of Market Concentration

$$Herfindahl = \sum_{i=1}^{k} s_i^2$$
 where *s* represents market share of firm *i*

State-Level Herfindahl

	(1)	(2)	(3)	(4)
	Insurance Premiums		In(Insurance Premium	
ln(State Herfindahl Index)	-260.165	72.416	-0.087	0.159
	(460.491)	(144.065)	(0.380)	(0.157)
Restrict ABA		-274.662***		-0.256**
		(97.758)		(0.096)
Regulation of TI Premiums				
File & Use		150.504		0.217*
		(138.518)		(0.113)
Prior Approval		1.431		0.014
		(106.093)		(0.108)
Promulgated		640.094***		0.543***
The Asia		(115.644)		(0.112)
Property Price and Loan Amount	Yes	Yes	Yes	Yes
Include Iowa	No	No	No	No
Observations	921,763	921,763	921,763	921,763
R-Squared	0.236	0.294	0.254	0.327

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County-Level Herfindahl Index

	(1) Insuranc	(2) e Premiums	(3) ln(Insurance	(4) Premiums)
ln(County Herfindahl Index)	22.319 (28.672)	203.239*** (72.812)	0.036* (0.021)	0.192** (0.089)
Interaction of State Regulation				
File & Use w/ ln(County Herfindahl	Index)	-153.689* (83.777)		-0.147 (0.097)
Prior Approval w/ ln(County Herfind	lahl Index)	-228.884** (98.280)		-0.202** (0.094)
Promulgated w/ ln(County Herfindal	nl Index)	-229.282** (99.542)		-0.151 (0.099)
Property Price and Loan Amount	Yes	Yes	Yes	Yes
Level of Fixed Effects	State	State	State	State
Observations	921,763	921,763	921,763	921,763
Within R-Squared	0.220	0.221	0.240	0.242

Note: State-Clustered Standard Errors in parentheses

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Transaction-Level Indicators

Market Share of Insurer in County

Greater Concentration in Some Counties

Share of Lenders Transactions w/ Insurer

Lenders May Own up to 49% of Agencies

Credit Score of Borrower

- Range from 620-837; Higher is Better
- Hypothesis: Should Have No Effect

Transaction-Level Indicators

	(1)	(2)	(3)	(4)
		ln(Insurance	Premiums)	
In(Market Share of Insurer in County)	0.007***		-0.001	-0.001
	(0.001)		(0.001)	(0.001)
ln(Lender Share w/ Insurer in County)		0.015***	0.016***	0.016***
		(0.002)	(0.003)	(0.003)
In(Credit Score of Borrower)				-0.091***
				(0.014)
Property Price and Loan Amount	Yes	Yes	Yes	Yes
Level of Fixed Effects	County	County	County	County
Observations	921,763	921,763	921,763	920,967
Within R-Squared	0.196	0.197	0.197	0.197

Note: County-Clustered Standard Errors in parentheses

Summary of Results

I. Effect of State Regulation

- Lower Rates in Unregulated & Prior-Approval
- Higher Rates in Promulgated States
- Lower Rates in States that Restrict ABAs

II. Effect of Market Power

- No Effect of Concentration at State Level
- Higher Rates in Counties w/ Less Competition
- Positive Effect of Lender Share on Rates

Impact of Blockchain

Will Create More Secure Chain of Title

- Easier to Identify Owners (w/ Password)
- **Encumbrances Still Possible without Torrens**

Reduced Labor Costs for Insurers

- Easier to Validate Chain of Title
- Effect on Consumer Premiums Unclear

Public Challenges to Address

- Possible Harm of Private Transactions
- Address Lost or Stolen Passwords

Title Insurance Eriksen, Fout, and Slezak (2019)