Business Groups in the United States: A Revised History of Corporate Ownership, Pyramids and Regulation, 1930-1950

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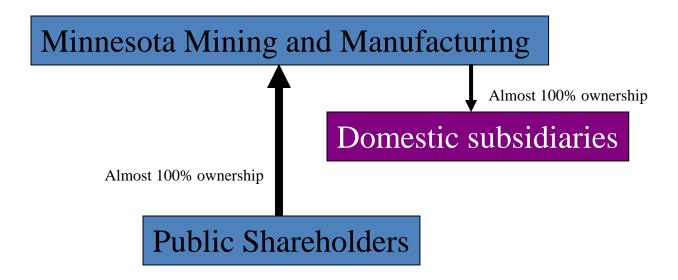




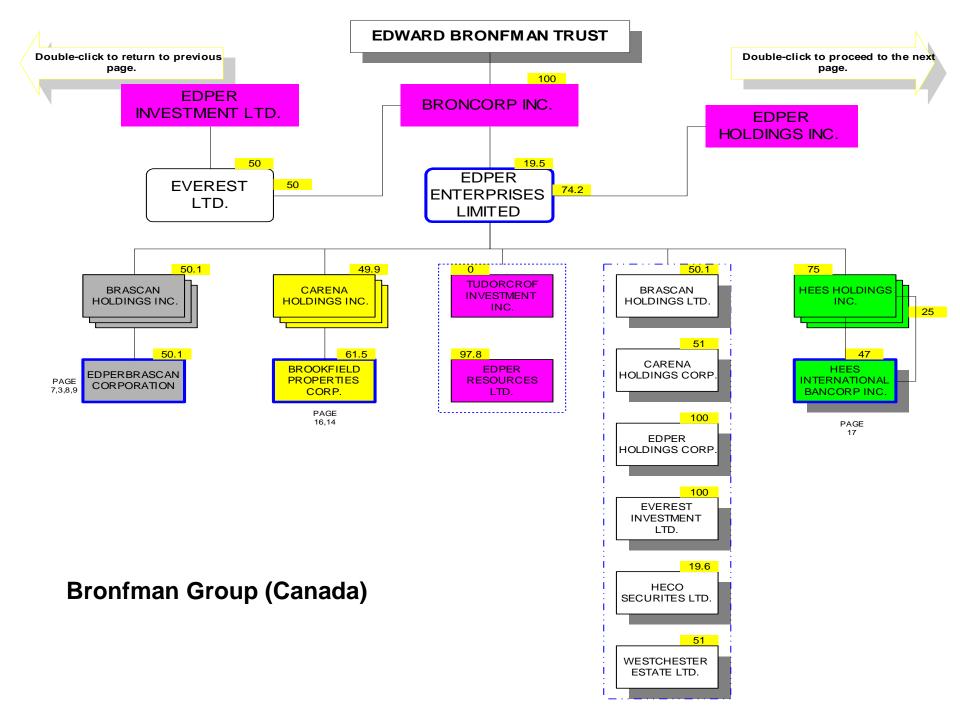




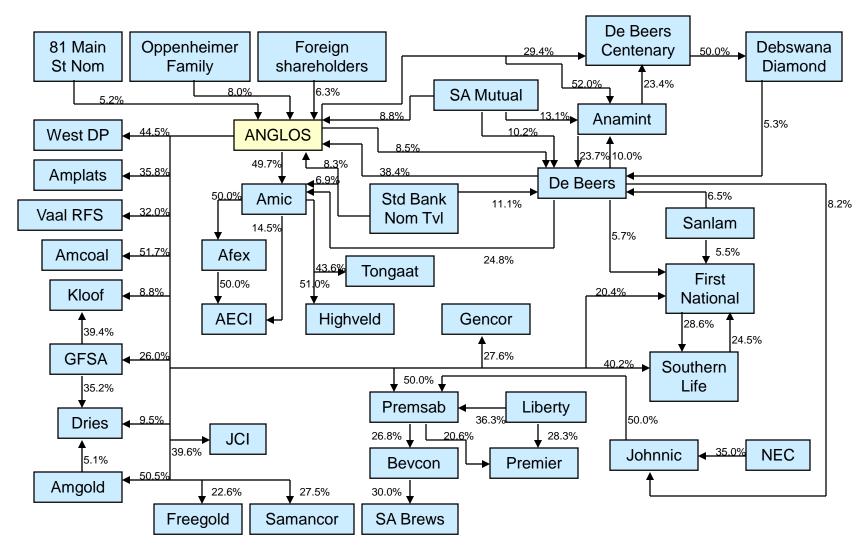
A Typical Large US Corporation Today



- Widely held
 - > No controlling shareholder
- Freestanding
 - Listed firms typically do not hold control blocks in other listed firms

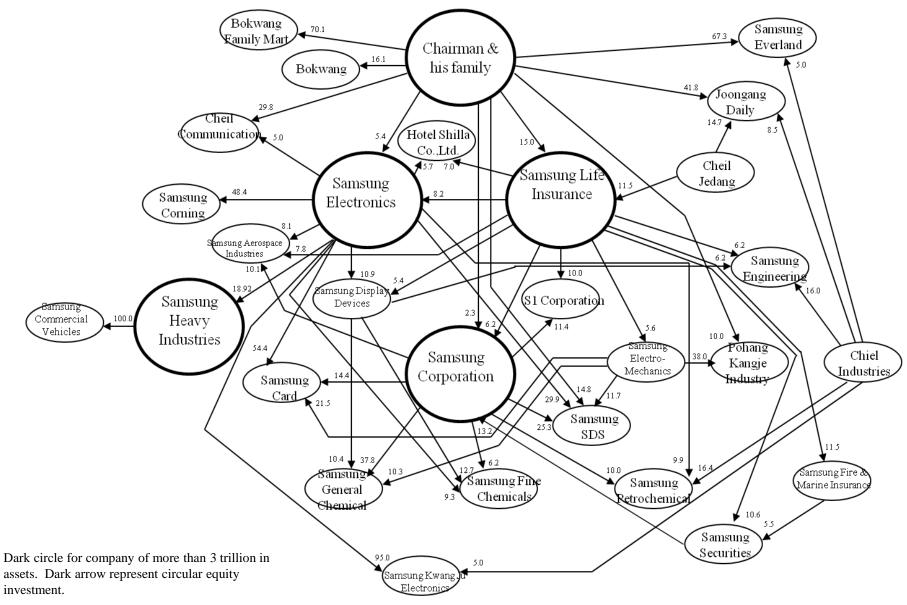


Anglo American Group (South Africa)

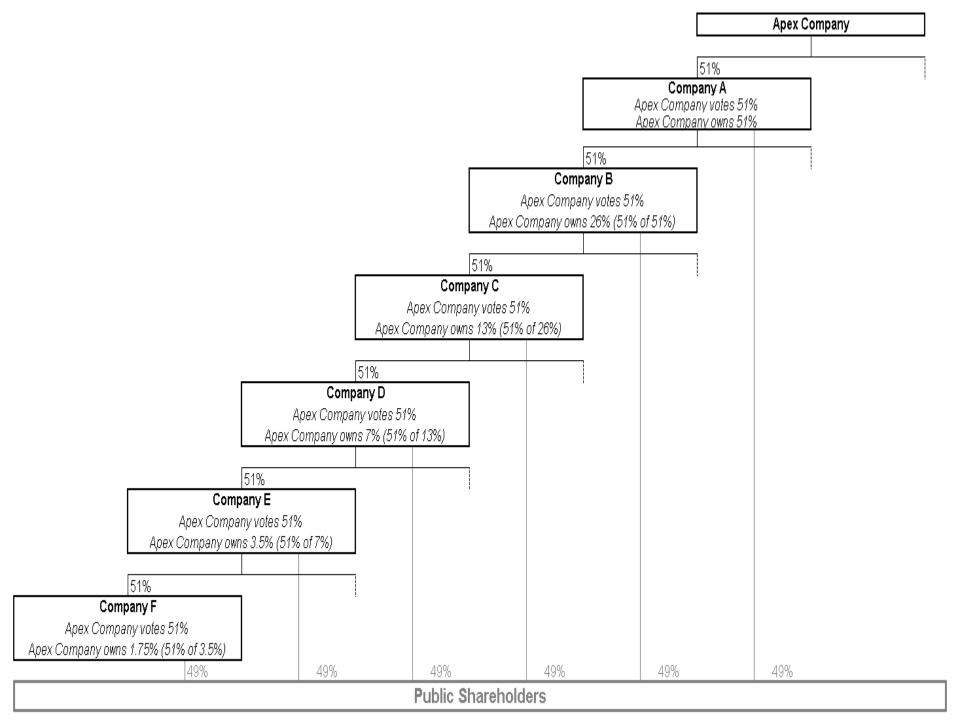


Source: Financial Mail

The Samsung Group

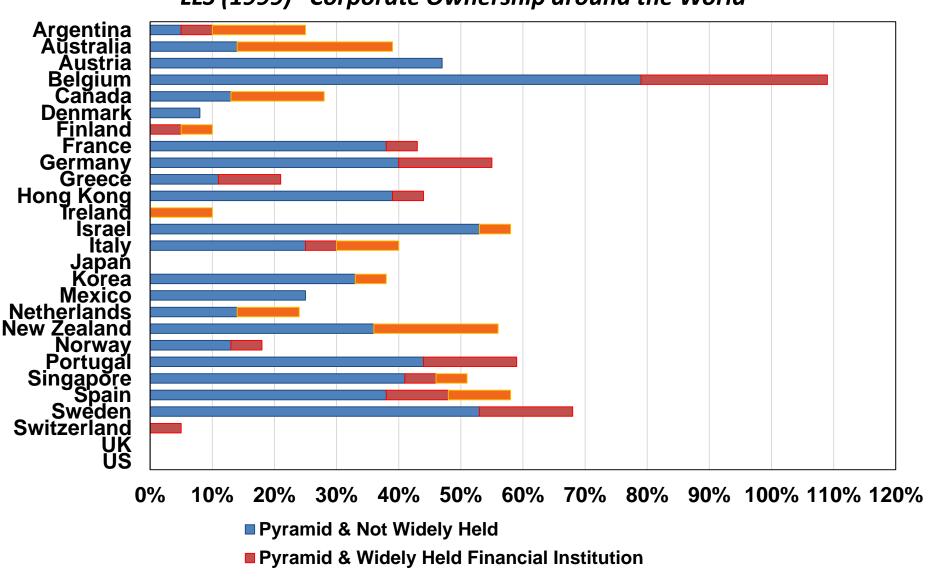


Source: Korea Investor's Service, reproduced from Chang (2003)



The US Today Is Different

LLS (1999) "Corporate Ownership around the World"



Pyramid & Widely Held Nonfinancial Corporation

Why is the US "Exceptional" Today?

- Was the US always like this? Is common law inconsistent with pyramidal ownership structures?
- Regulation 1: Did investor protection/the SEC limit the growth of business groups?
- Regulation 2: Was it the taxation of inter-corporate dividends?
- Regulation 3: Was it the Public Utility Holding Company Act, 1935 (PUHCA)?
- Other regulatory forces: Glass-Steagall Act, 1933; Investment Company Act, 1940; Antitrust enforcement, Tax policy?
- □ Did the "natural erosion" of family-controlled groups through succession cause this?
- Did Economic forces (the Great Depression)/ geopolitical shocks (WW-II) do it?

Claim: None of these provides a complete explanation

Specific Questions Addressed in this Study (late 1920s - 1950s)

- Did business groups ever exist in the US?
- How many, how large?
- What were their characteristics?
- What do we actually know about their demise?
- What did contemporaries think about them?

Stylized facts (descriptive) and tentative conclusions:

- Agenda for future research on specific hypotheses
- Modification of the existing historical accounts (mono-causal)
- Policy relevant

Documented Stylized Facts

- As in many countries today, business groups existed in the US, holding (at the peak of their activity) about 50% of all non-financial corporate assets
- As in many countries today, some groups were familycontrolled, pyramidal and diversified
- Unlike most groups today, many US groups were focused (undiversified) in one sector: public utilities, transportation and communications
- Unlike most groups today, the holding (apex) company of many US groups was diffusely held
- Unlike most groups today, "tunneling" (conflicts between controlling and minority shareholders) were probably not a major issue in US groups

What Led to the Absence of Groups in the US? None of the "Suspects" Did It Alone...

- Groups existed not inconsistent with US common law
- Groups continued to exist in the 1940s; 18 survived until 1950, some survived even later – their disappearance was gradual
- □ Group demise was not an *immediate* response to the introduction of major anti-group (and other?) regulatory measures in the 1930s
- WW-II period was not especially bad for groups
- Diversified family-controlled groups disappeared first Could this provide a clue? More affected by Glass-Steagall? More affected by estate taxes (in conjunction with other pressures)?

Additional Observations

- No evidence that dual-class shares replaced pyramids (co-existed with pyramids in early years; became unpopular/ prohibited in the late 1920s)
- No clear link between business groups and the rise of conglomerates/multidivisional firms in the 1960s (group "alumni" firms were not involved in the conglomerate merger wave because of anti-trust enforcement?)
- The academic and public discourse of groups in the 1930s: primarily anti-trust based in contrast with the modern focus on investor protection

Implications

- Very long evolution making US corporate ownership what we know today; for much of its history, US corporate ownership resembled what's common in emerging markets today (in contrast with E. Hilt?)
- Delay associated with the effect of regulatory reforms (Sussman and Yafeh, 2013 provide 300 years of evidence on this)
- Certain types of groups can co-exist with common law/ investor protection and developed equity markets (related to Franks-Mayer-Miyajima on Japan)
- □ The historical link/sequence between reforms in the US and the *zaibatsu* dissolution in Japan

Historical Background

- □ Use of holding companies becomes common towards the end of the 19th century (legal reform in NJ; replaces previous collusive arrangements, not inconsistent with common law)
- Antitrust legislation starting in the late 19th century (Sherman Act, Clayton Act and more)
- □ Proliferation of business groups: 1915-1928 (outside the scope of antitrust regulation; competition for firm incorporation across States; limited regulation; also "missing institutions" arguments for the formation of business groups)
- Different types of groups emerge: widely held groups focused in utilities (and railroads); and diversified familycontrolled groups in other sectors
- Concerns emerge in the late 1920s: groups hamper competition; groups are risky to investors (collapse of the Insull Group); groups over-expand

Anti-Group Measures of the 1930s

- □ Emergency Railroad Transportation Act (1933) regulates mergers and securities issues in this sector
- Investor Protection: Establishment of the SEC 1933-4 (disclosure requirements, restricted use of consolidated financial reports)
- □ New Deal Legislation (The Glass-Steagall/ Banking Act of 1933), more on this in the next draft...
- Several investigating committees
- □ Politics: F. D. Roosevelt's rhetoric
- □ Direct measure 1: Inter-corporate dividend tax (gradual increase in rate, 10% in 1935, 15% in 1936)
- Direct measure 2: PUHCA (initially of 1935, "Death Sentence Clause" in 1940, legal battles end in a 1946 Supreme Court confirmation)
- □ Antitrust enforcement weak until around mid-1940s (Celler-Kefauver Amendment, 1950)

Contemporary Research and Commentary

- Extensive literature (on holding companies) in the 1930s (Bonbright and Means, 1932, as the ultimate source; many others who describe the formation or growth of business groups in the United States)
- Mostly antitrust language, limited reference to investor protection issues

Evaluation of anti-group reforms:

- Mixed regarding inter-corporate taxation
- Very mixed regarding the effectiveness of the PUHCA (Anderson vs. the SEC Chairman)

Extremely Limited (modern) Research

- □ Literature on the history of corporate ownership in the US and elsewhere (especially related Becht and DeLong (2005) and other chapters in the Morck edited volume of 2005)
- Roe (1994, 2003) the importance of politics for US "exceptionalism"
- History of executive compensation (e.g., Frydman and Saks, 2010)
- □ Block holders in the US (Holderness et al., 1999)

Specifically on Groups in the US

- Legal scholars such as Bank and Cheffins (2010) under-estimate their importance, especially outside public utilities
- Mahoney (2012) negative effect of anti-group legislation (uses an event study methodology, not suitable for gauging welfare effects)
- Morck & Yeung (2005) taxation of intercorporate dividends as a crucial policy tool
- Perez Gonzales (Stanford WP, 2013): PUHCA affected the structure of utility groups and improved the performance of affiliates which became standalone entities

Data: Sources and Construction

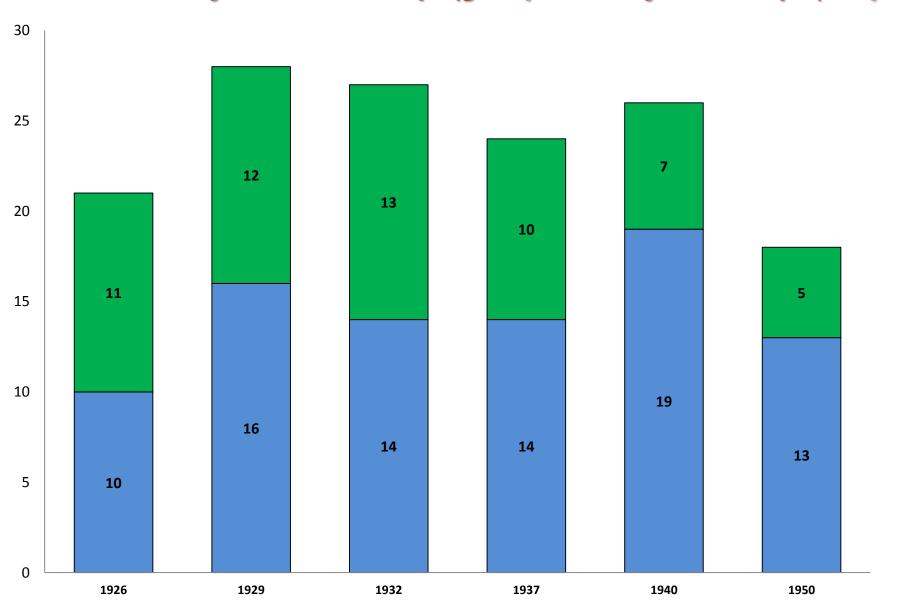
- Berle and Means'(1932) original list of the 200 largest non-financial corporations
- □ Track the evolution and structure of ownership using periodic reports from Moody's manuals (Industrial, Public Utilities, Railroads) at six points in time: 1926, 1929, 1932, 1937, 1940 and 1950
- □ Unbalanced panel ~ 2500 firms, 15,000 firm-years
- **□** Financial reports/statements (incomplete)
- **SEC** annual reports (PUHCA Administration)
- □ Various other historical sources, newspaper archives and more...

Data (contd.)

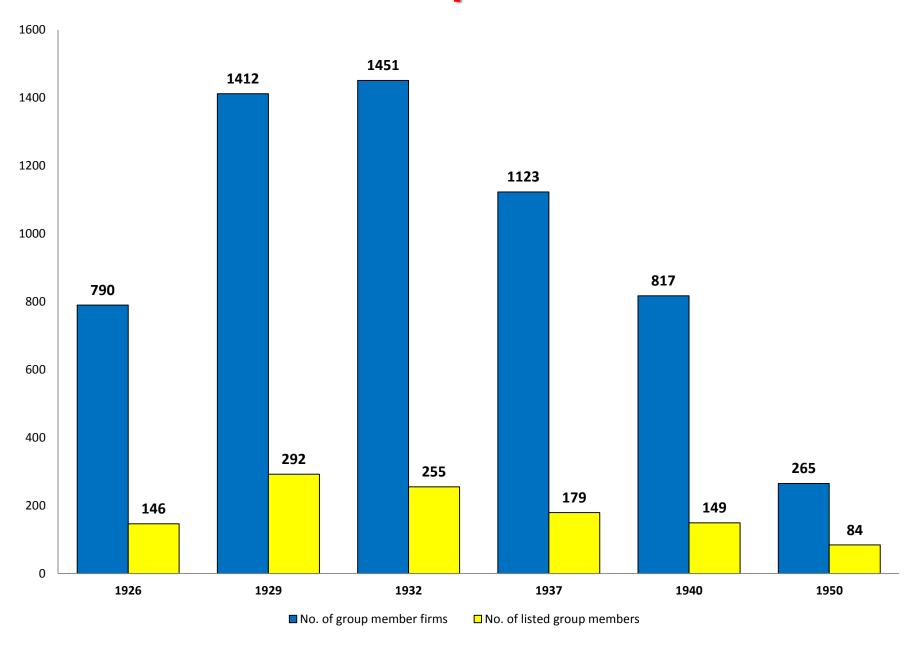
- Tests for sample selection do not reveal any serious bias: various contemporary sources with alternative lists of large companies vs. the list in Berle and Means
- □ Definition of a group: same ultimate owner, at least three publicly listed companies (stake < 95%)
- □ Ignore non-voting shares (but there seems to be no serious bias: ultimate owner's holdings in preferred stocks ≈ holdings in common stocks (TNEC, 1940))

US Business Groups

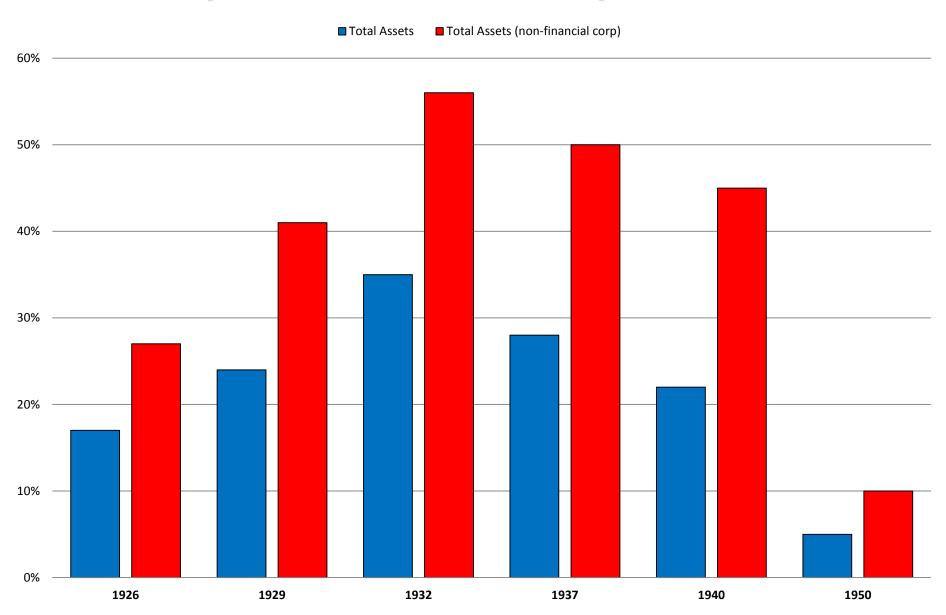
No. of Family-controlled Groups (green) vs. Widely-held Groups (blue)



Number of Group-affiliated Firms



Group Size - % of Total Corporate Assets

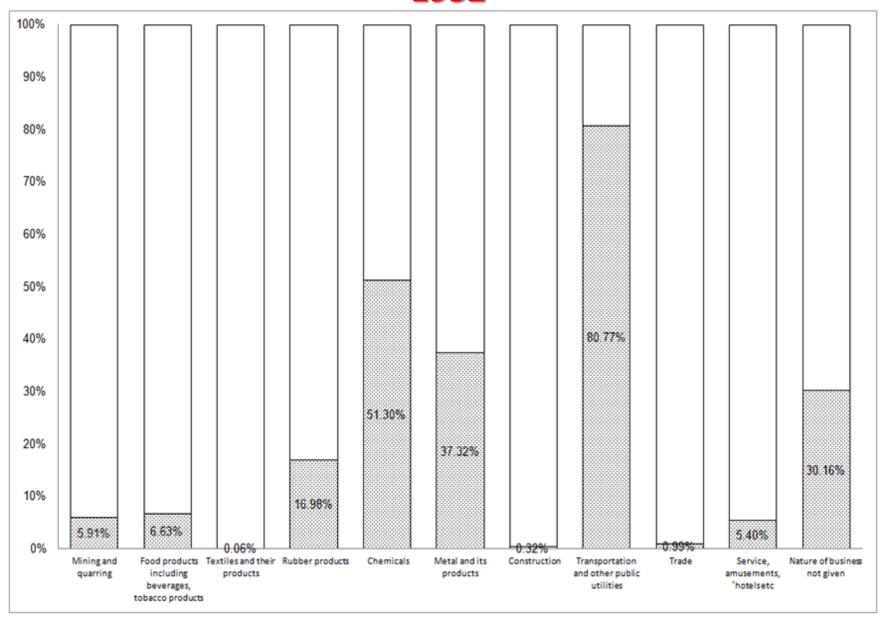


Sources: Statistics of Income, Authors' calculations

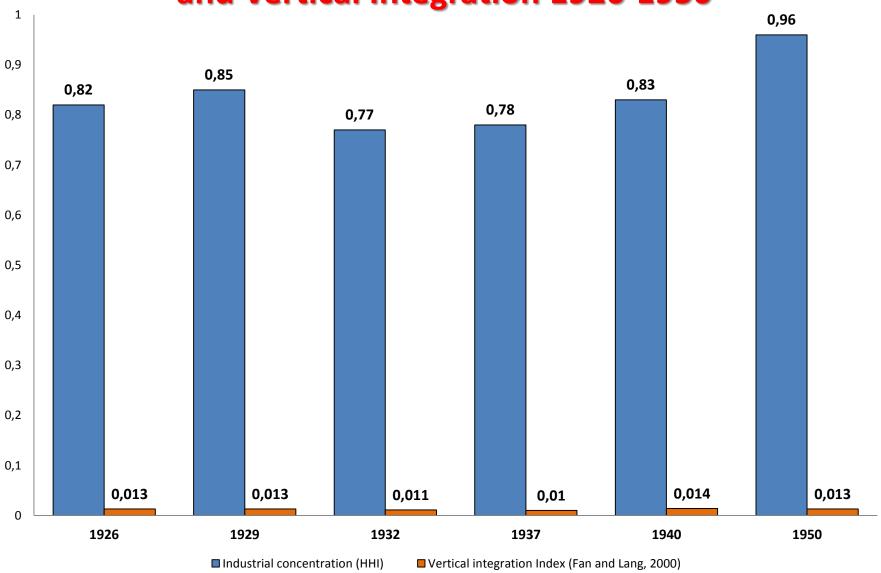
Distribution of Business Groups by Industry, 1932

	Business Group/industry	Who less le and re tail trade	Amusements	Repair Construction	Transportation and ware housing	Communications	Electric, gas, water and sanitary services	Finance and Insurance	Coal mining	Other	Primary iron and steel manufacturing	Electric industrial equipment	Construction	Tex tile	Chemicals & selected chemical products	Rubber and miscellaneous plastics	Motor vehicles and equipment	Tobacco manufactures	Petroleum refining & related industries	Other fabricated metal products	Metalworking machinery and equipment	Food and kindred products
	American Telephone & Telegraph Co. Anaconda Copper Mining Co.					48(8)	1(0)			2(0)	9(6)	1(1)										
Widely-Held Groups	Atlantic Coast Line Co.				36(5)					.,												
	Central States Elec. Corp.				2(0)	2(2)	29(2)						1(0)									
	Delaware Lackawanna & Western Rd. Co.				20(3)																	
	Inter. Tel. & Tel. Corp.					11(5)																
	Kennecott Copper Corp.				1(0)						6(4)											
	Loew's Inc.	1(1)	8(3)																			
	Middle West Utilities Co.			1(0)	10(0)	4(3)	100(8)	1(0)														
Š	Pacific Lighting Corp					1(1)	5(3)															
5	Paramount Publix Corp.		8(4)																			
	Pennsylvania Rd. Co.				237(43)				2(0)													
	Southern Ry. Co				38(5)																	
	Stone & Webster, Inc.				3(0)	1(1)	35(6)															
Family Groups	Doherty family					1(1)	48(4)						1(0)									
	Du Pont family				1(0)		1(1)	2(0)				1(0)		1(0)	1(1)	5(4)	3(1)					
	Harriman family				26(4)																	
	Hill family				25(5)													4(4)				
	Hopson				6(0)	1(0)	50(6)	1(0)														
	Kuhn-Loeb				17(4)	4(3)																
	Mellon family	1(0)			7(0)	2(2)	60(15)		9(1)	1(0)	1(1)	2(1)	2(0)		3(0)		1(0)		2(0)	5(2)	2(0)	
	Rockefeller family								1(1)										38(13)			
	Sinclair Von Stranion on				100/11				1/05										11(6)			4/01
	Van Sweringen				100(11)				1(0)													1(0)
	Vanderbilt				72 (13)																	
	Morgan*	1(1)			49(1)	8(8)	235(19)	4(1)	4(1)		2(2)	4(1)			1(0)		3(1)		1(0)	2(0)	3(0)	

The Share of US Business Groups in Selected Industries, 1932



Group Diversification (mean HHI) and Vertical Integration 1926-1950



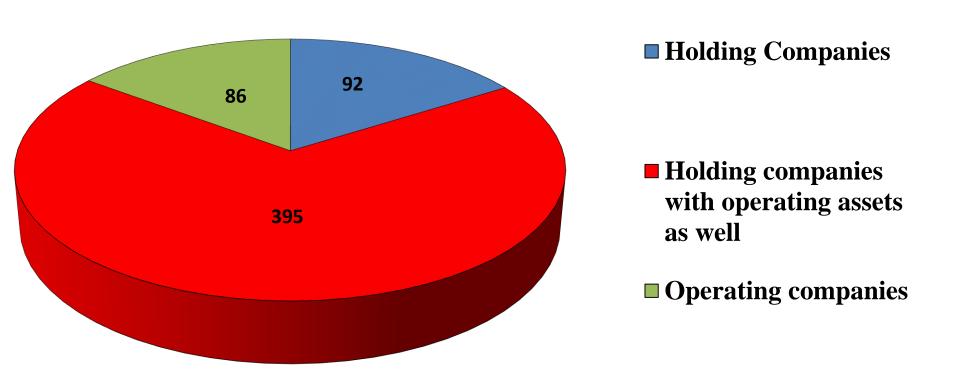
How the VI Measure is Calculated (Fan and Lang, 2000)

Group Vertical integration Index (VI) - a proxy for the opportunity for vertical integration (based on IO matrix coefficients) between group member firms

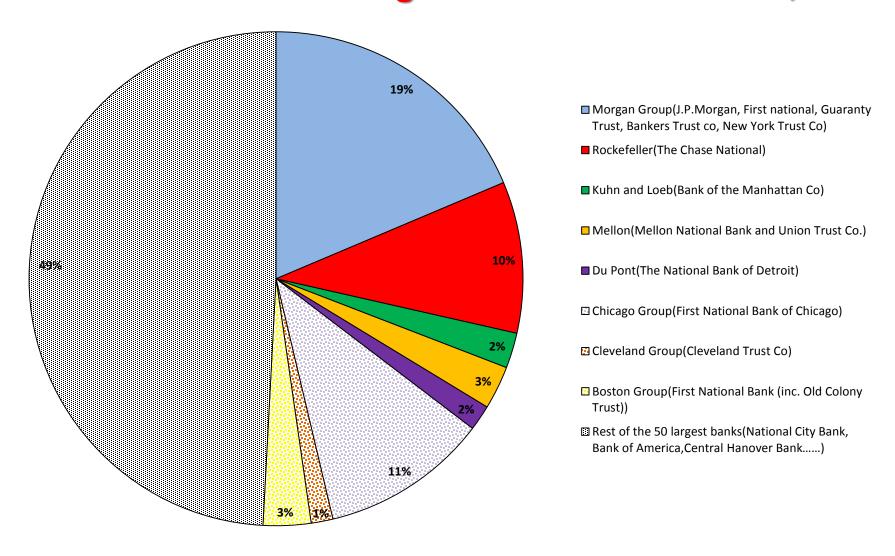
"In 1992, the total plastics output was \$31,502 million. The total output of bags was worth \$8,389 million. The bags industry consumed \$1,259 million worth of plastics (aij), whereas the plastics industry employed \$10 million worth of bags (aji) as an input. On a per-dollar basis, the bag industry consumed \$0.15 = 1,259/8,389 worth of plastics for each dollar of bags produced (vij), whereas the plastics industry consumed \$0.0003 = 10/31,502 worth of bags for each dollar of plastics produced (vij). The vertical relatedness between the two industries is 0.0751 = 1/2(vij+vji), the average input transfer between the two industries on a per dollar basis".

In 1928, ...

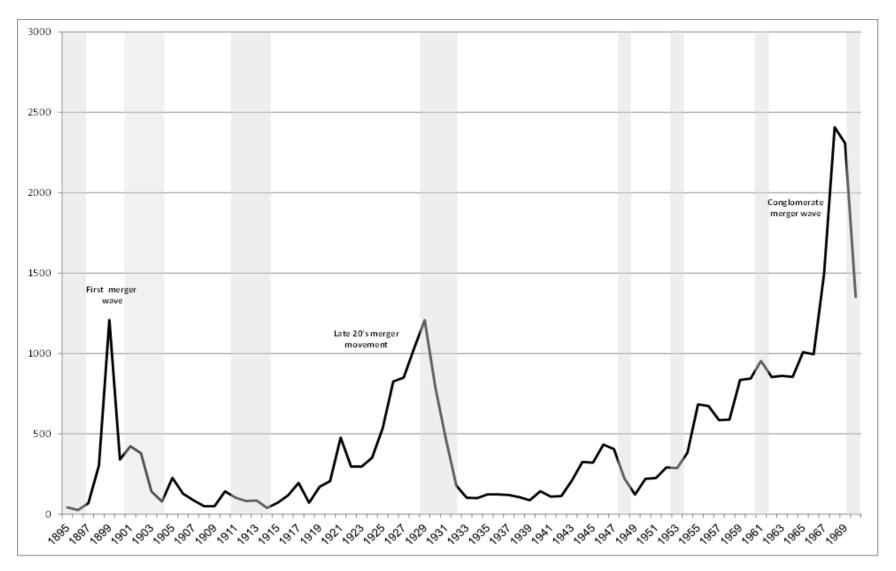
➤ Holding Companies (group-affiliated and controllers of fullyowned subsidiaries) out of 573 Listed Companies on the NYSE



Group-affiliated Financial Institutions: Total Assets of the 50 Largest Commercial Banks, 1933



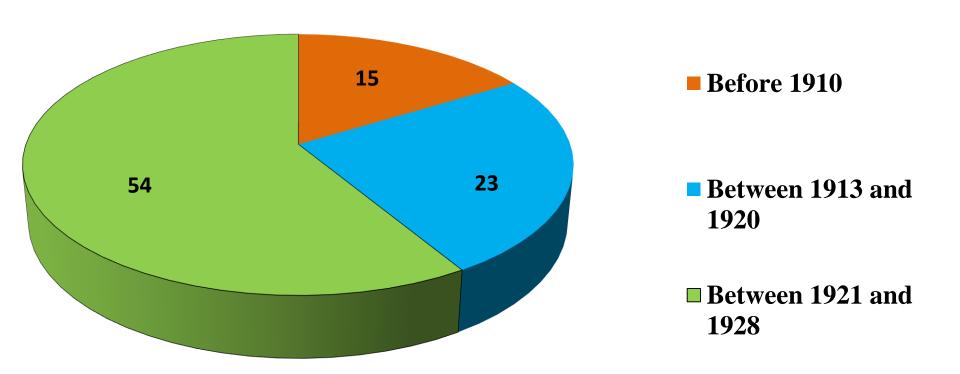
M&A Activity (Group and Conglomerate Formation), 1895 -1970



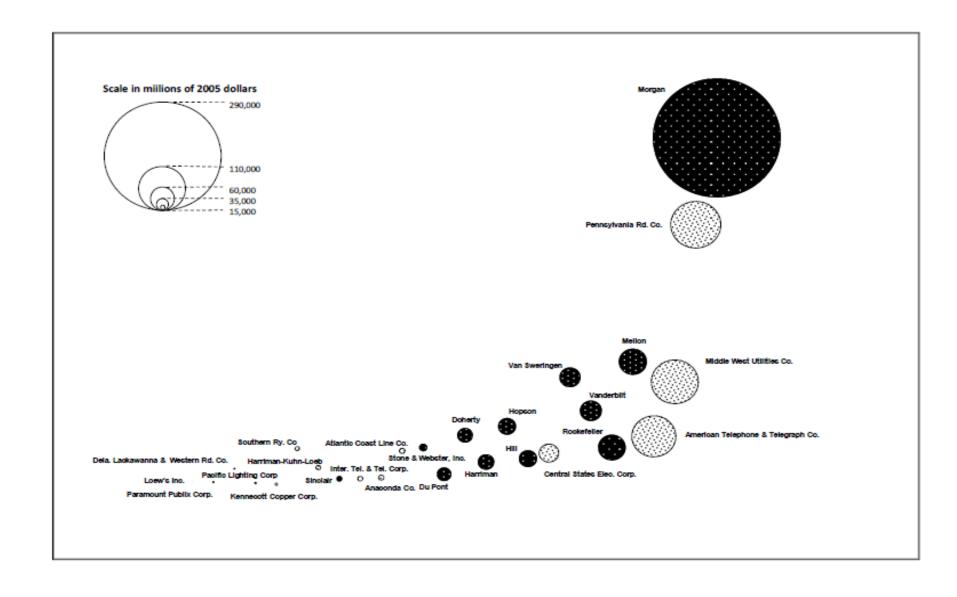
Sources: Nelson (1959), Historical Statistics of the United States (1970), NBER

In 1928, ...

▶ Of the 92 pure holding companies listed on NYSE



The Relative Size (total assets) of Business Groups, 1932



Group Revenues in comparison with the Largest US Firms Today

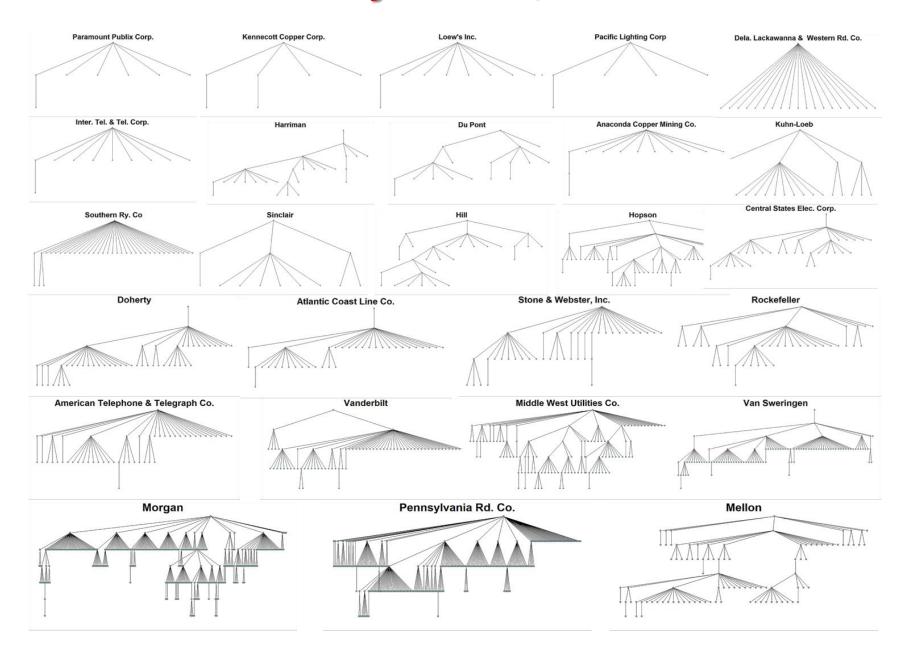
- □ The largest group the Morgan Group had revenues of \$46 billion in 1932 (2005 prices)
- □ About 1/10 of today's largest American corporations such as Wall-Mart or Exxon-Mobil
- But the size of the US economy is about 15 times larger today than it was in the early 1930s in real terms, so relative to the size of the economy, the Morgan Group was bigger

Rank	Company Name		Revenues (\$b)	Profits (\$mm)
1		Wal-Mart Stores	469.2	16,999
2	Mobil	Exxon Mobil	449.9	44,880
3	Pro.	Chevron	233.9	26,179
4	(68)	Phi ll ips 66	169.6	4,124
5		Berkshire Hathaway	162.5	14,824

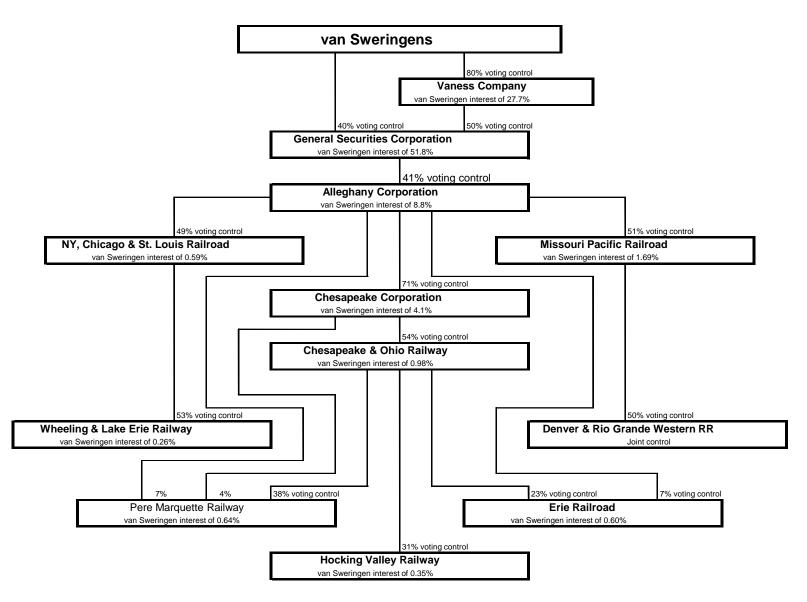
Size relative to Groups in Emerging Markets Today

- □ The Morgan Group in 1932 was comparable in size to today's Formosa Group, the largest in Taiwan (in real terms, not relative to the size of the economy)
- □ Smaller than the largest Korean groups (Samsung's 2005 revenues were in the order of \$80 billion and Hyundai's about \$60 billion)

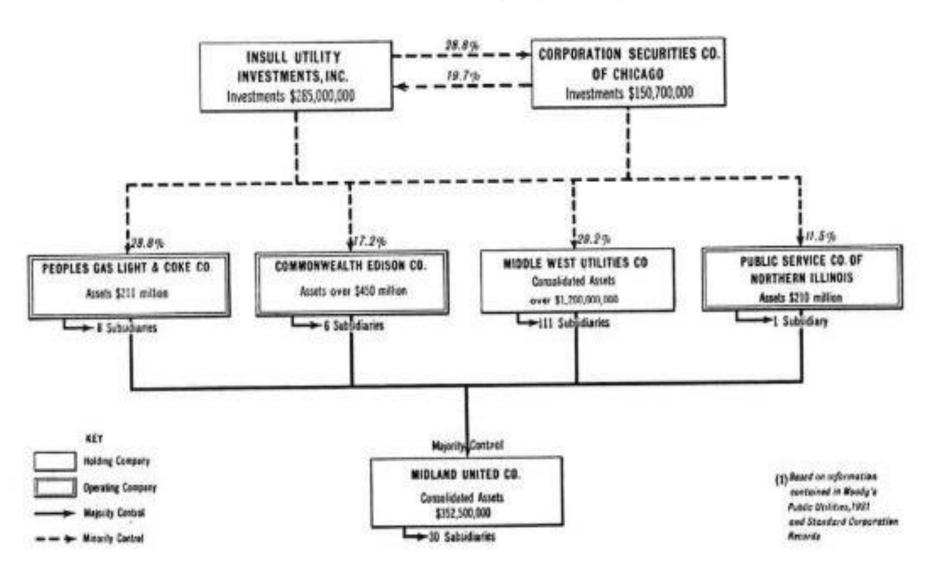
US Pyramids, 1932



Alleghany (Van-Sweringen) Group

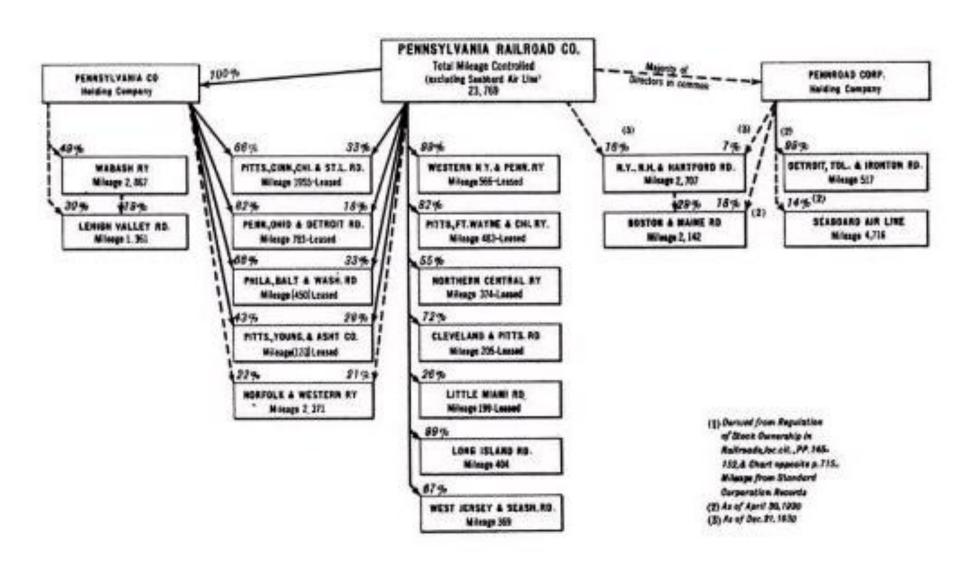


Insull Group (USA)



(Major elements only)

Pennsylvania RR Group (USA)



Average Ownership Stake Held by Controlling Shareholders

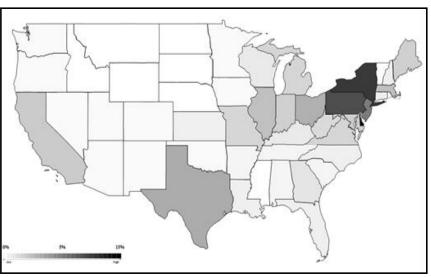
Population	Number of companies	Mean	T-value (diff.)
Publicly-traded	923	76%	
Group-affiliates	614	72 %	7.47***
Stand-alone (non-affiliated)	309	85%	
Family-controlled groups	285	73.1%	-1.32
Widely-held groups	329	70.3%	

Geographic Distribution of US Business Groups, 1932

Holding Companies (N=143)

Operating Companies (N=1681)





US Exceptionalism - 1

Business groups in the 1930s USA	Business groups in most countries in the 2000s	America exceptional?
Commonplace	Commonplace	No
Pyramidal structure	Pyramidal structure	No
Large firms	Large firms	No
Small control wedge	Large control wedge	Yes
Industrially concentrated Geographically diversified?	Industrially diversified Geographically concentrated	Yes
Many with widely held apex firm	Apex firm is generally a family firm	Yes

The Evolution of US Business Groups 1926 – 1950

Pursings Comm/Vers		1926		1929		1932		1937		1940		1950
Business Group/Year	T-4-1	Public affiliates	Total		Tetal		Tate		Take	Public affiliates	Total	
	Lotal	Public attiliates	Lotal	Public attiliates	Lotal	Public attiliates	Total	Public attiliates	Iotal	Public attiliates	lotal	Public attiliates
American Gas & Electric Co.*											8	7
American Radiator & St. San. Corp.			6	4							•	,
American Telephone & Telegraph Co.	45	6	48	8	49	8	39	6	35	7	29	8
American Tobacco Co.			5	3					4	3	4	4
Anaconda Copper Mining Co.					12	7			11	6	10	5
Atlantic Coast Line Co.	35	4	36	5	36	5			38	4		
Baltimore & Ohio R.R. Co.									39	4	25	4
Baltimore & Ohio R.R. Co.+New York Central									36	3		
Central States Elec. Corp.	27	5	49	15	34	4	57	5	22	7		
Commonwealth Edison Co.							34	4				
Dela. Lackawanna & Western Rd. Co.	21	3			20	3	20	4				
Delaware & Hudson Co.	14	3	13	3			14	3	14	3		
Delaware & Hudson Co. + Union Pacific Rd. Co.									61	11		
Electric Bond & Share Co.*									61	9	24	11
General Electric Co.							87	15				
E General Theatre Equipment, Inc			10	4								
Great Northern Ry. Co							20	3				
Great Northern Ry. Co Handler Tel. & Tel. Corp. Kennecott Copper Corp.			14	6	11	5	10	3	12	4	8	3
🚣 Kennec ott Copper Corp.	5	4	7	4	7	4						
E Loew's Inc.					9	4	10	5	9	3	6	3
➤ Middle West Utilities Co.					116	11						
Milbank interests			36	5								
National Dairy Products Corp.			11	3								
New York, New Haven & Hartford R.R Co.											13	3
Pacific Lighting Corp			7	3	6	4	5	3				
Para mount Publix Corp.			7	3	8	4			8	3	4	3
Pennsylva nia Rd. Co.	170	32	206	40	239	43	123	17	84	13	35	9
Prince trust			5	3								
Radio Corp. of America									10	4		
Southern Pacific Co.							59	3	37	3		
Southern Ry. Co	40	5			38	5	40	5	39	5	31	6
Stone & Webster, Inc.			39	8	39	7	34	8	36	7		
Tide Water Associated Oil Co.	11	5										
United Gas Improvement Co.	50	4							4	3		
Western Union Tel. Co. Broes and Grosman trust							17	11	4		- 4	3
Crawford interests	15	3					17	11				
	20	6	30	9								
Cyrus S. Eaton & Assoc. Do herty family*	41	3	45	3	50	5	32	4				
Do nerty family Du Pont family	8	3	11	6	15	7	13	5	16	4	9	4
Harriman family	29	4	30	4	26	4	26	4	10	4	50	11
•	27	+	30	+	21	7	20	+			30	-11
Harriman-Kuhn-Loeb E Hill family	27	3	26	4	29	9						
Hopson	21	3	67	6	58	6						
insull	68	6	115	27	30	0						
Mather family	00	0	113	21					4	3	3	3
Mellon Family			82	10	98	22	34	14	26	10	-	,
Morgan*	28	9	259	43	317	35	193	17	97	8		
Rockefeller	30	19	46	27	39	14	72	13	37	10	15	6
Sinclair	30	15		21	11	6	10	3	9	3		3
Stone & Webster families	35	7				3	10	,		3		
Van Sweringen	-	,	105	13	102	11						
Vanderbilt	68	12	91	20	72	13	66	12				
Warner family	-	4.5	6	3				12				
Young and Kirby			•	3			103	12	71	9	50	5
												_

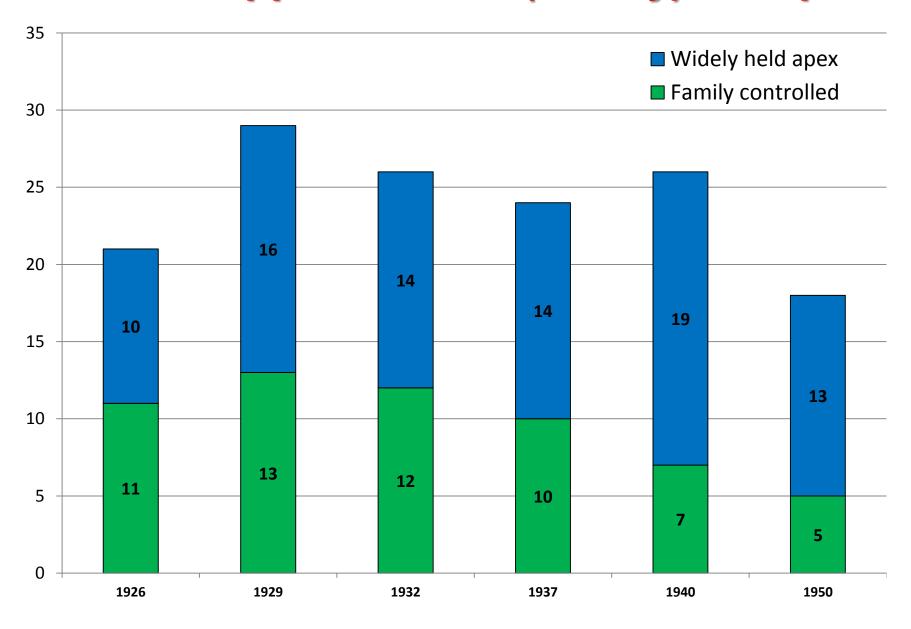
US Exceptionalism - 2

Business groups in the 1930s USA	Business groups in most countries in the 2000s	America exceptional?		
Commonplace	Commonplace	No		
Pyramidal structure	Pyramidal structure	No		
Large firms	Large firms	No		
Small control wedge	Large control wedge	Yes		
Industrially concentrated Geographically diversified?	Industrially diversified Geographically concentrated	Yes		
Many with widely held apex firm	Apex firm is generally a family firm	Yes		
Gone	Still there	Yes		

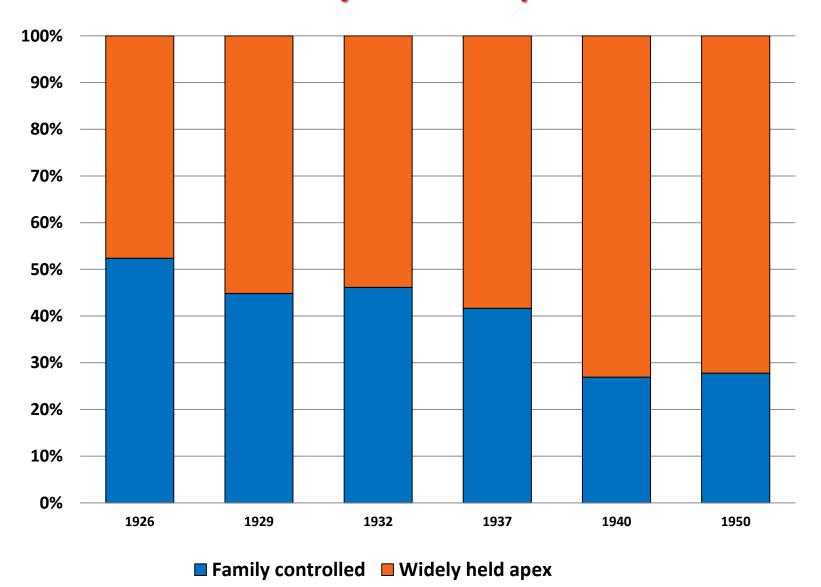
Survivor Groups vs. Groups which Disappeared

	Number of Groups	Age	Total Assets (\$mil)	Herfindahl Index	Public Level	Pyramidal level	Ownership	Family controlled	Vertical integration
Survived	18	30	21,238	0.9	1.7	2.6	83%	28%	0.015
Disappeared	35	27	16,694	0.8	2.0	3.1	68%	51%	0.011
T-test differences significance		-	***	-	-	-	**	**	-

The Disappearance of (Family) Groups



Proportion of Family-controlled vs. Widely-held Groups



Survival Analysis

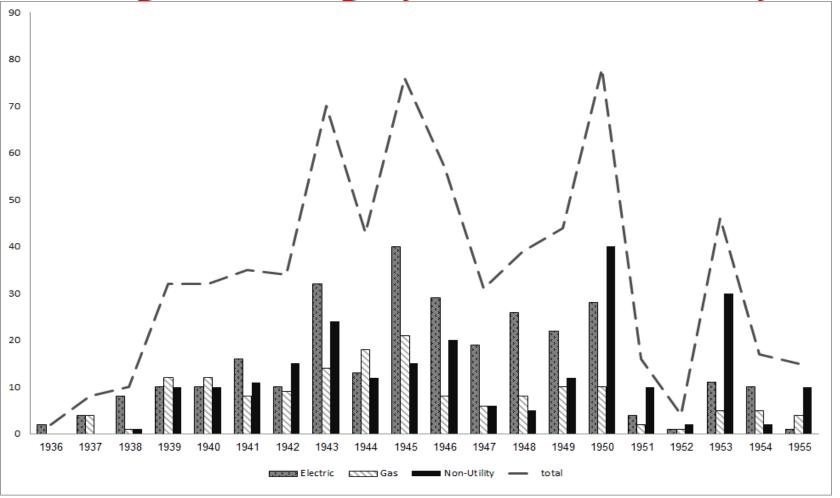
- Probit regressions where the dependent variable is survived/disappeared by 1950 dummy
- Confirm the effect of size and ownership
- □ In addition, focused (non-diversified) groups and groups with a small number of pyramidal levels (or a small control-cash flow wedge) were more likely to survive (but the "wedge" is not very large in groups which disappeared also)

Survivor Groups vs. Groups which Disappeared

	(1)	(2)	(3)	(4)	(5) Pre- Depression Groups	(6) PUHCA era (1935-1950)	(7) PUHCA era (1935-1950)
Family controlled	-1.03* (0.61)	-0.65 (0.44)	-0.45 (0.8)	-0.74 * (0.43)	-1.74 ** (0.86)		-0.47 (0.59)
Depression dummy		-0.41 (0.45)	-2.51 ** (1.29)				
Earnings	0.85 * (0.46)	0.45 * (0.25)	1.61 * (0.84)	0.63 ** (0.27)	1.32 *** (0.49)	0.63* (0.35)	0.74 * (0.38)
Industrial Concentration	5.12 ** (2.05)	2.12* (1.14)	9.6 * (4.31)	1.9 * (1.03)	3.24 * (1.97)	2.58 ** (1.28)	2.47 * (1.32)
Geographic Diversification				2.04 * (1.09)		3.37* (1.77)	3.6 ** (1.82)
Vertical Integration	0.45 (0.5)		0.37 (0.66)				
Ownership stake	6.7 * (3.48)	3.63** (1.6)	11* (6.35)		4.56* (2.72)	5*** (1.96)	4.9 *** (1.91)
Intercept	+	+	+	+	+	+	+
Observations	53	53	34	53	33	36	36
R-square	0.26	0.29	0.55	0.21	0.46	0.4	0.42
Hosmer-Lemeshov (pr>chisq)	0.58	0.25	0.64	0.64	0.96	0.65	0.3

Properties Sold/Divested by Public Utilities Holding Companies, 1936-1955

(but apparently PUHCA accounts for only ~10% of all ownership changes in business groups between 1940 and 1950)



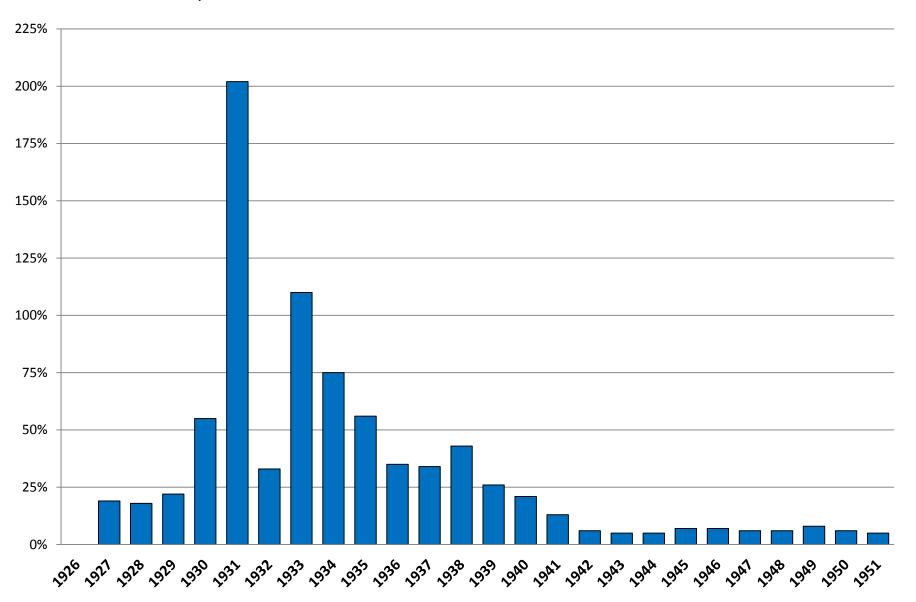
Source: SEC Annual Reports

The Prevalence of Inter-corporate Dividends

Taxableyear	Total all corpora tions (Smil)	Compiled Net Profits (CNP) (Smil)	%of CNP	Agriculture and related	Mining and Quarrying	Manufacturing	Construction	Transportation and other public utilities	Trade	Services	· '	ng, insurance, real estate, es, stock and bond brock ers
											Total	Holding Companies
1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939	1506 1658 1916 2593 2571 1569 1259 1025 2217 3013 2676 2682 1791 1906	9510 8669 10667 11870 4649 7777 3829 930 2970 5423 7618 7777 4144 7236	16% 19% 18% 22% 55% 202% 33% 110% 75% 35% 34% 43% 26%	7 8 9 9 10 5 4 6 10 13 7 7	76 52 58 60 54 35 21 16 76 72 68 86 41	428 377 475 584 548 392 211 160 389 613 546 524 261 367	12 26 12 14 25 21 18 10 5 6 7 6 4	447 547 581 832 740 615 429 311 324 268 341 324 268	54 58 62 59 64 47 36 34 60 72 81 94 60 53	20 27 35 60 53 42 18 8 12 17 45 36 21 21	461 559 682 972 1076 809 521 481 1346 1955 1575 1602 1065 1116	na na na na na na 1777 2299 na na 589
1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950	2021 2235 1344 1334 1429 1418 1713 1837 2194 2162 2460 2377	9472 16592 23280 27933 26547 21345 25399 31615 34588 28387 42831	21% 13% 6% 5% 5% 7% 6% 6% 6% 6%	9 4 4 7 13 4 6 6 5 45	43 55 31 25 32 22 30 54 102 82 97	373 502 305 312 394 358 464 590 716 674 920 902	8 6 9 8 5 11 8 7 11 8 12	130 139 301 323 306 323 367 340 390 195 244 238	49 61 40 47 47 48 91 92 102 85 100 99	23 25 22 23 32 39 56 42 28 25 31 25	1264 1306 631 591 605 604 693 749 877 1086 1010 972	996 1034 297 264 274 268 311 300 581 807 666

Inter-corporate Dividend Income

(as % of corporate earnings of the recipient company)



Sources: Statistics of Income

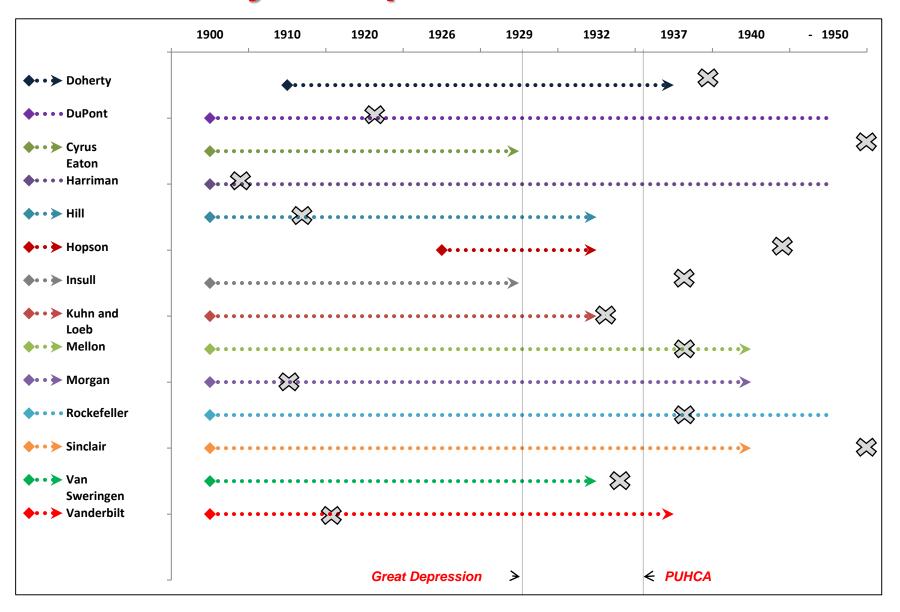
WW-II period

- Revenue Acts 1940-1943 (increased taxation; Frydman's work shows this did not affect exec compensation)
- **□** SEC Administration of PUHCA
- ☐ Investment Act of 1940 (disclosure)
- **☐** Decline in the importance of investment banks

VS.

- ☐ Reinforcement of the power of Big Business (War Production Board)
- War-time delay in anti-trust enforcement and increased concentration

Family Groups and Succession



The Demise of Groups

- □ The demise of business groups in America was a slow process, not an immediate response to the legislative measures of the 1930s
- While the phenomenon of family-controlled groups nearly disappeared, widely-held groups, a rarity outside the US, continued to exist until 1950 and in some cases even later than that
- □ The disappearing groups were the ones more affected by the rise of the SEC? (control-cash flow "wedge" was higher in groups which disappeared, but differences were not very large by today's standards)
- What did the Americans know when they dissolved the zaibatsu in Japan?

The Demise of Family-Controlled Groups

- Were they more susceptible to investor protection measures such as the rise of the SEC?
- Not sure, because control-cash flow wedges were not very different than in non-family controlled groups (average holdings of about 70% in affiliated firms)
- Were they more dependent on dividends?
- Not sure if the dividend tax was effective (contemporary observers)
- On the one hand, losing companies did not always pay the tax; on the other hand, restrictions on consolidated financial statements made the tax more effective
- **■** Were they more sensitive to the PUHCA? *Unlikely*
- Demise not clearly related due to succession

The Demise of Family-Controlled Groups (2)

- Other factors exerting pressure on family-controlled groups? (to be explored)
- Glass-Steagall Act affected investment banking/ internal K markets within family-controlled group?
 Not all were equally affected (Morgan vs. the Rockefeller and Harriman families)
- Estate tax (which was flat throughout the period) in combination with other factors implied that familycontrolled groups faced more pressure?
- Rise in antitrust enforcement in the 1940s affected family-controlled groups more than others? Why? (To be explored...)

Pyramids & Conglomerates

 It doesn't look like pyramids converted themselves into conglomerates

 The conglomerate merger wave was primarily a 1960s phenomenon. By then, pyramids were gone

 We find only one example of members of a pyramidal group reforming into a conglomerate (ITT)

The Rise of Stock Markets?

- No clear evidence to suggest that the demise of business groups led to an immediate rise in market-based financial development
- □ The dissolution of groups was an essential prerequisite for financial development, but the effect was slow/ delayed/ materialized only in conjunction with other regulatory changes which made a difference (e.g. ERISA)?
- Groups and developed stock markets need not be mutually exclusive?

Conclusions, Version 1: Demise of US Pyramids (It's not exactly what you thought)

Inter-corporate dividend taxes?

- Not immediate, but inter-corporate dividends declined in the 1940s
- Not clear if the tax was effective
- Family groups disappeared faster than widely-held groups because families wanted dividends more? Why were widely-held groups more tenacious?

Public Utilities Holding Companies Act?

- Not immediate
- **SEC** administration affected directly a relatively small number of groups?
- * What could explain the stronger effect on family-controlled groups?

Shareholder rights and the SEC?

- Not immediate
- * Affected family-controlled groups more than others?
- Not clearly linked to institutional investor pressure and financial development

Antitrust enforcement?

* Becomes stronger in the early 1950s and may have played a role?

Populism?

Dissolution not obviously precipitated by any single reform but the political climate was "right?"

Conclusions, Version 2:

- BGs (of certain types) are not incompatible with common law and investor protection
- BGs need not always involve a large "wedge" between the controlling shareholder's control and cash flow rights
- The public discourse about them need not focus on minority shareholder expropriation
- □ In an institutionally developed democracy, antigroup regulation is unlikely to yield immediate results due to legal (and political) challenges

Conclusions, Version 2 - contd.

- Once groups disappear, benefits in the form of financial development are uncertain/ may take a long time to materialize
- Disappearance of groups in the US was a result of a combination of factors which cannot be easily separated?

Outline of a Future Research Agenda

Next steps:

- ➤ Immediate: Try to measure the effects of the Glass-Steagall Act and antitrust enforcement on groups
- Firm-level analysis: What happened to firms formerly affiliated with groups between 1940 and 1950? About 750 (out of 1600) changed ownership during this decade, probably less than 100 due to PUHCA
- Robustness of the group definition?

Longer-run extensions:

- **Did the elimination of groups foster competition in the US (or in specific industries)?**
- **❖** Did the demise of groups affect financial development at the industry level (external financial dependence in industries without groups?)