Is the Traditional Banking Model a Survivor?

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Federal Reserve Research and Policy Conference

Community Banking in the 21st Century

St. Louis, MO – September 28, 2016

Community bank survival: One definition, one fact, and one finding

<u>**Definition**</u>: A bank *survives* by neither failing (financial exit) nor being acquired (strategic exit).

<u>Fact</u>: The population of banks with assets between \$500 million and \$10 billion *has increased* over time.

Finding: Within this size group, a traditional banking strategy substantially *increases a bank's probability of surviving*.

Bank survival

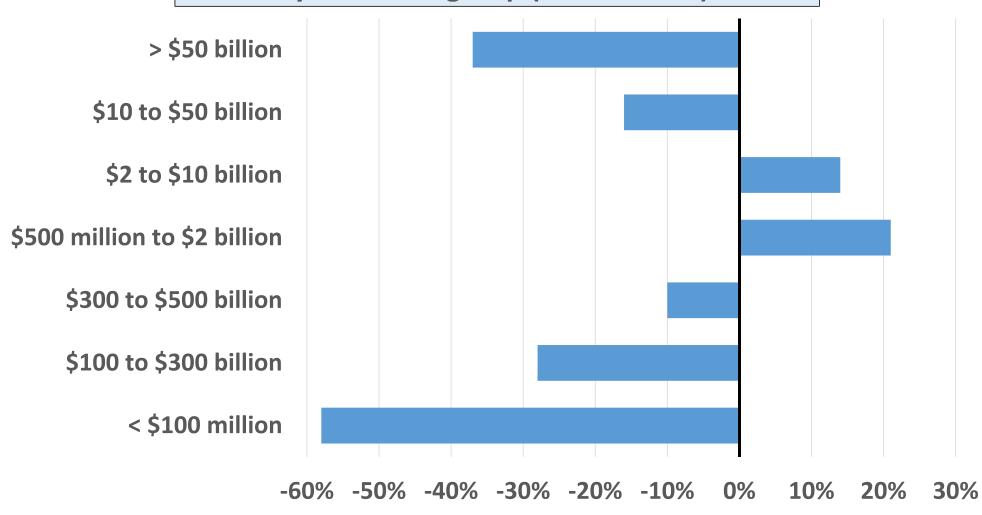
<u>To survive</u>, a bank must remain solvent (not fail).

- 477 U.S. banks have failed or been acquired with government assistance since 1997.
- "financial exit"

<u>To survive</u>, a solvent bank must also remain operating under its own power (not be acquired).

- 5,675 healthy U.S. banks have been acquired since 1997.
- "strategic exit"

% change in U.S. banking companies, 1997-2012. By asset size group (2008 dollars).



The traditional banking model

- We know it when we see it...but it is very difficult to quantify.
- Analyze U.S. banks with assets from \$500 million to \$10 billion.
- > Traditional bank: At least 3 of these ratios are above median:
 - branches/assets
 - core deposits/assets
 - traditional income/assets
 - relationship loans/assets
- > Nontraditional bank: No more than 1 ratio is above median.
- Which type of bank was more likely to survive?

Evidence from the raw data

	% of banks that survived		traditional bank
	traditional	nontraditional	survival advantage
	banks	banks	
1997-2012	48.2%	40.4%	19.2% more likely
1997-2006	57.5%	49.5%	16.3% more likely
2006-2012	88.8%	70.5%	22.5% more likely

An econometric model

- Traditional banking index (TBI) = % of 4 ratios above the median.
 - TBI = 100% (fully traditional)
 - TBI = 75% (marginally traditional)
 - TBI = 50%
 - TBI = 25% (marginally nontraditional)
 - TBI = 0% (fully nontraditional)
- We estimate a panel probit model of bank survival:
 - Year fixed effects, cluster on banks.
 - Controls: Bank size, lending mix, local economy, market competitiveness, and Heckman selection first-stage.

Results from econometric model

- How does the value of the TBI influence the probability that a bank survived from 1997 through 2012?
- "Marginally traditional" banks were 13 percentage points more likely to survive than "marginally nontraditional" banks.
- The traditional banking advantage is strongest for banks between \$500 million and \$2 billion.
- The advantage disappears for banks between \$2 billion and \$10 billion.

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