

From Recovery to Expansion /

Interest Rates and Commercial Real Estate in 2014

Chicago Booth 7th Annual Real Estate Conference / October 2013

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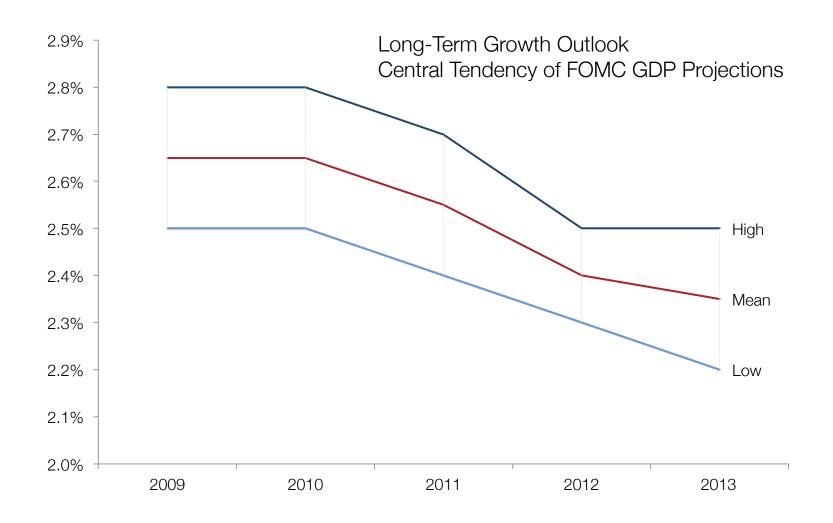
Agenda

The Economy & Interest Rates

Property Investment & Financing

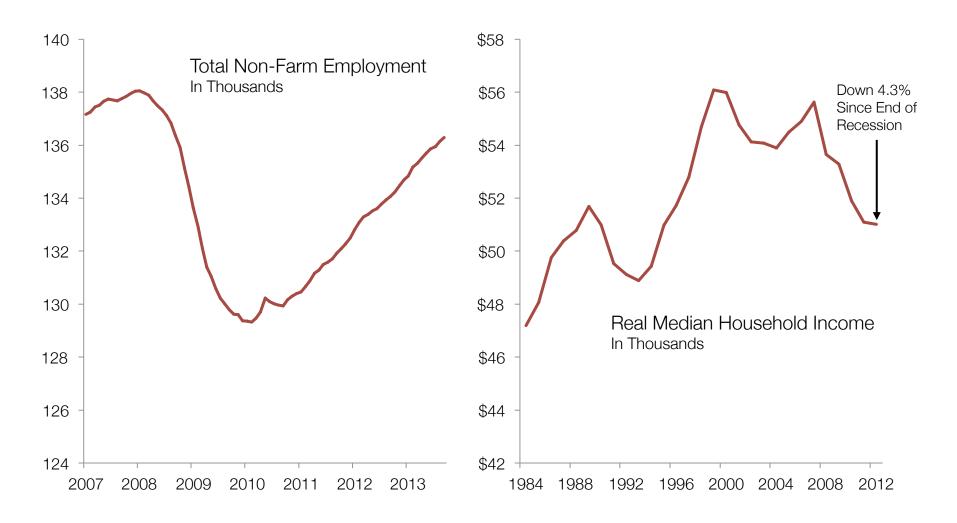
Forward Look

Diminished Growth Prospects



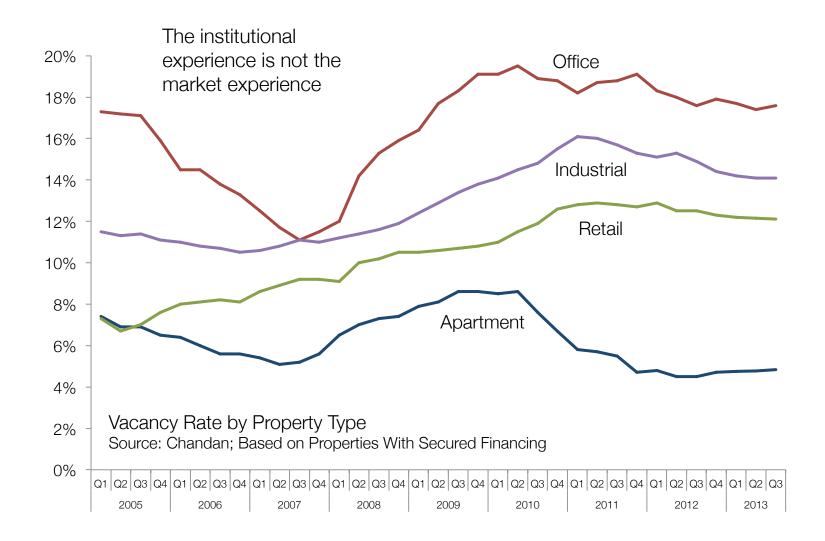
Source: Board of Governors of the Federal Reserve

Qualified Jobs Recovery



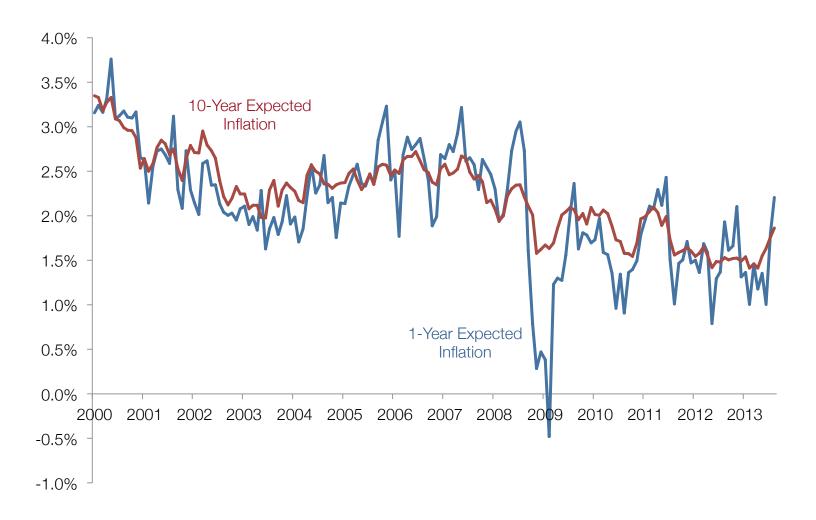
Source: Bureau of Labor Statistics, Board of Governors of the Federal Reserve

Weak Fundamentals Trends / Q3 Prelims

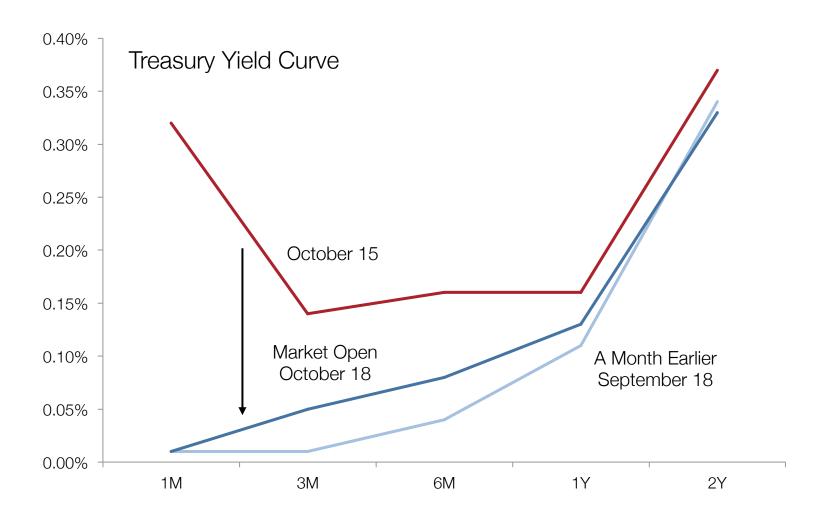


Source: Chandan LoanComps®

Policy Unconstrained by Inflation

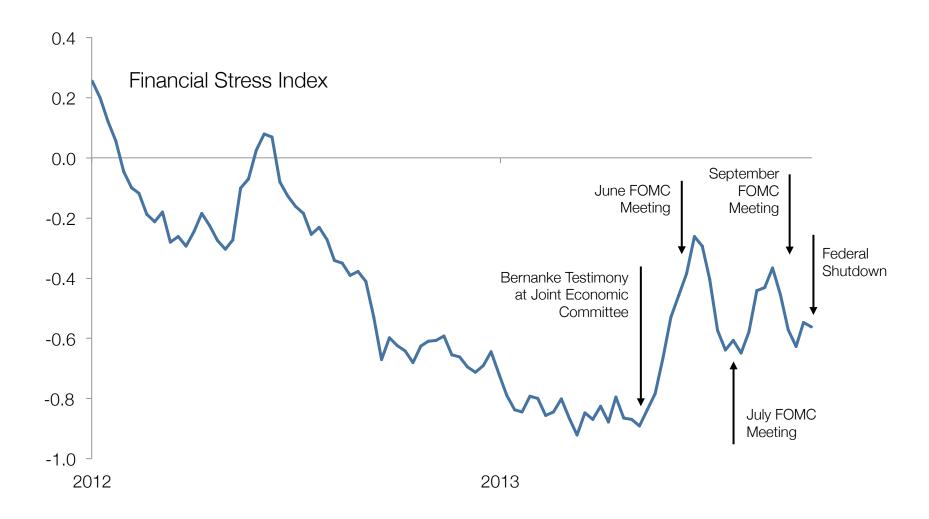


Hedging Default



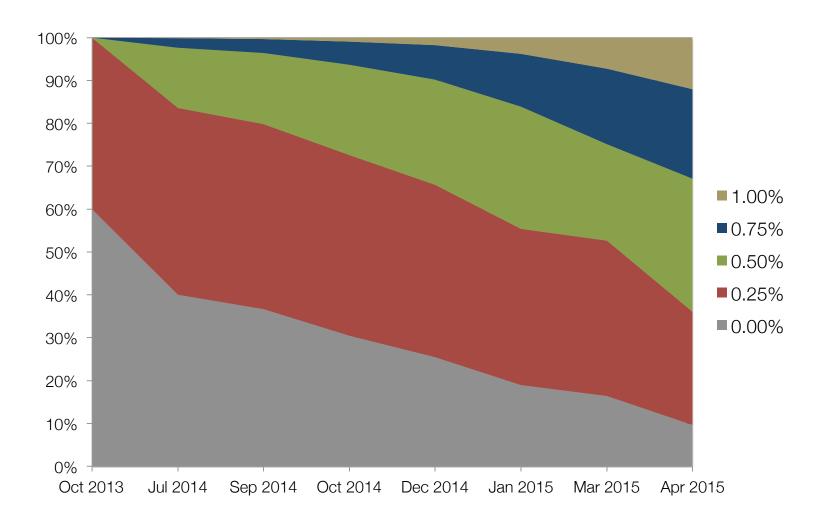
Source: Treasury

Sources of Financial Market Stress



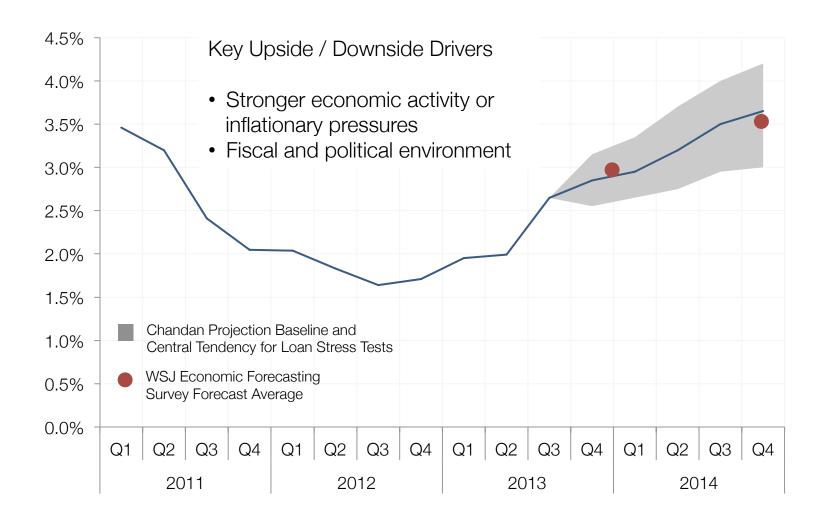
Source: Federal Reserve Bank of St Louis

Fed Funds Target Outlook



Source: Chandan, Based on CBOE 30-Day Fed Funds Futures Contract

Rising Long-Term Rates



Source: Chandan, Federal Reserve, Wall Street Journal

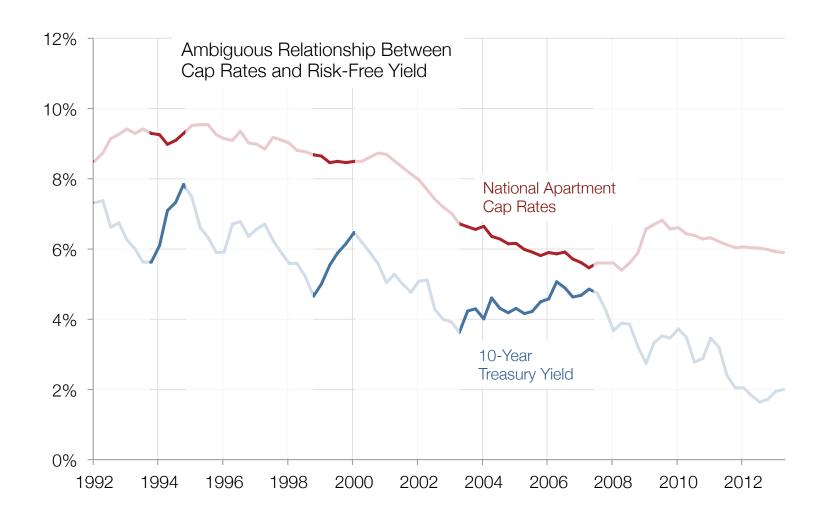
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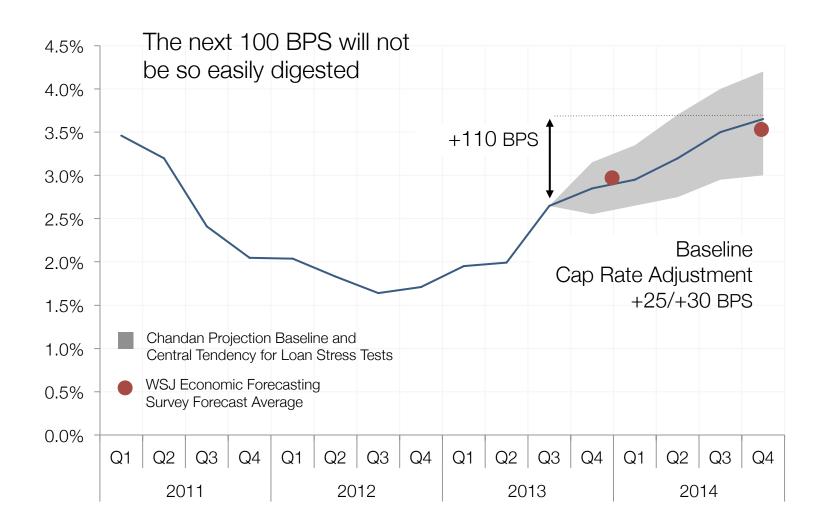
Forward Look

Interest Rates & Apartment Cap Rates



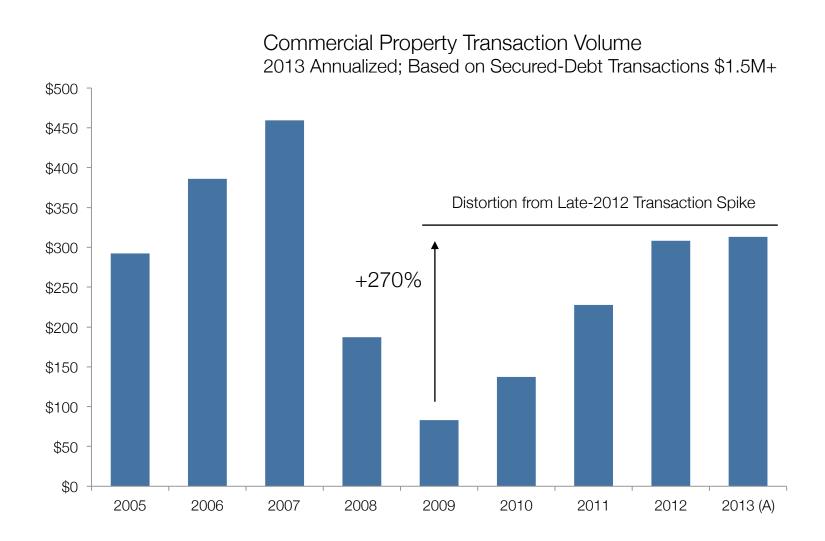
Source: Chandan, Federal Reserve

Interest Rate Projections / Long Rates



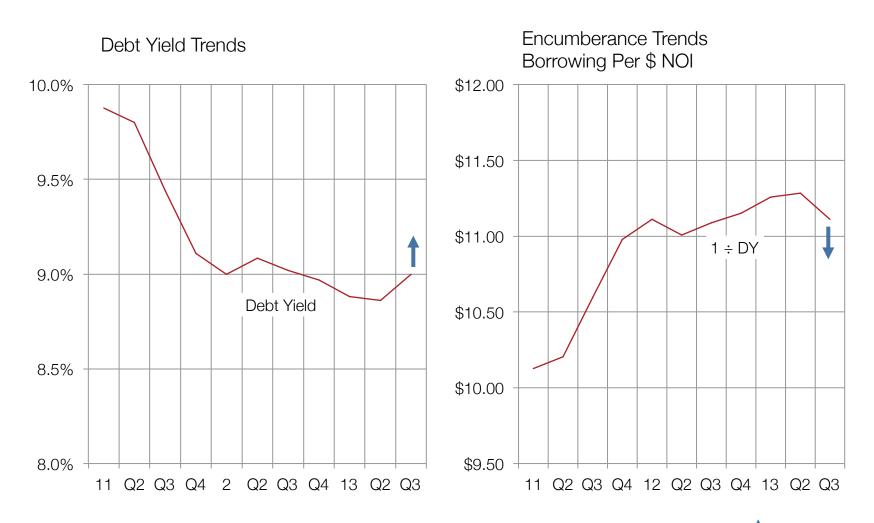
Source: Chandan, Federal Reserve, Wall Street Journal

Commercial Property Investment Trends



Source: Chandan LoanComps®

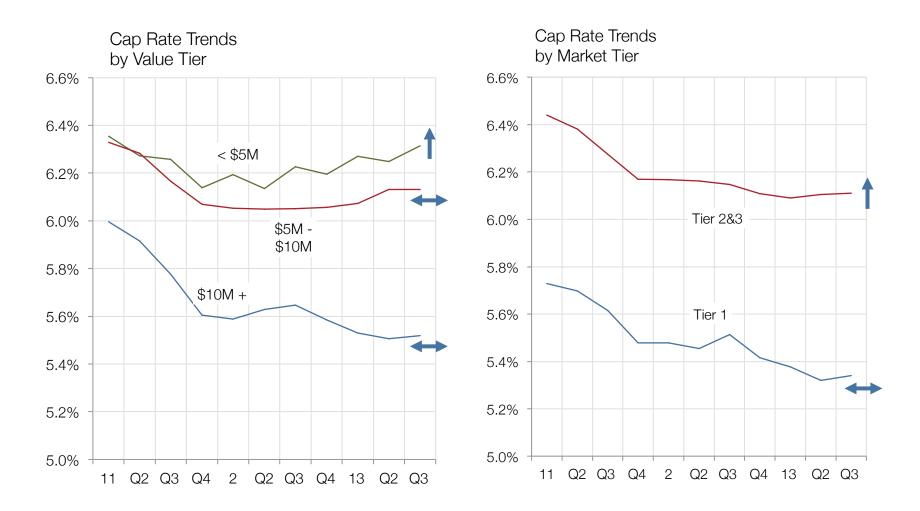
Apartment Financing Trends / Q3 Prelims





Source: Chandan LoanComps® / Final Q3 2013 Trends Publish on November 1

Apartment Financing Trends / Q3 Prelims



Apartment Gap Analysis

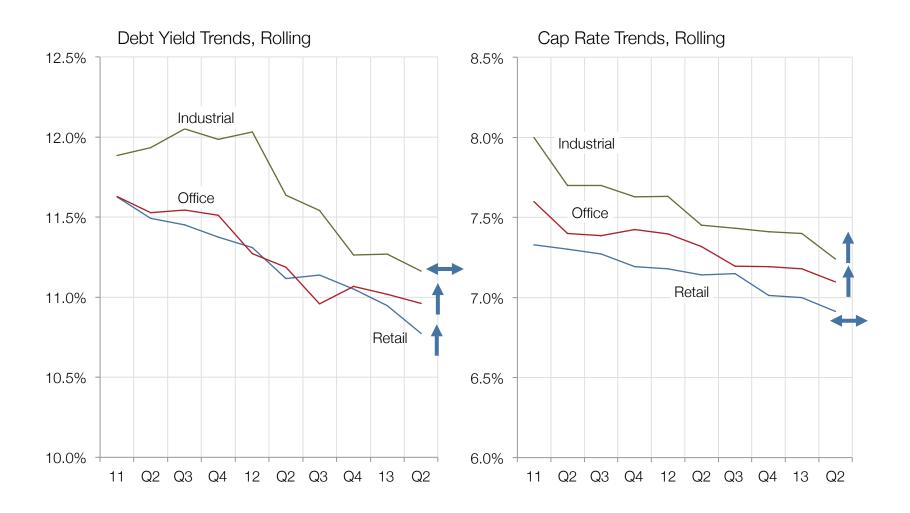
Washington DC	Largest Gap
Chicago	
Boston	
San Francisco	
Manhattan	Smallest Gap

Gap Analysis — Where do underwriting assumptions diverge from property fundamentals performance

Tier 1 & 2 Markets

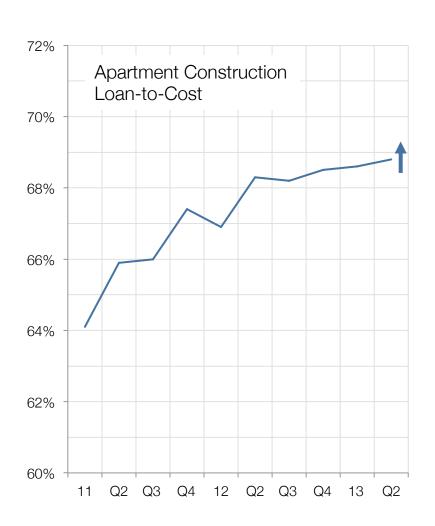
Charlotte	e Largest Gap	
Phoenix		
Austin		
San Jose		
Inland Empire		
Miami		
Seattle		
Manhattan	Smallest Gap	

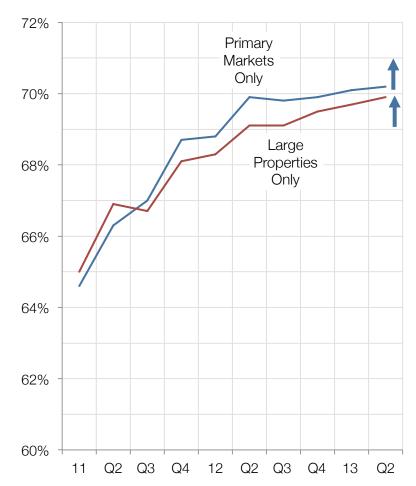
Commercial Financing Trends / Q3 Prelims



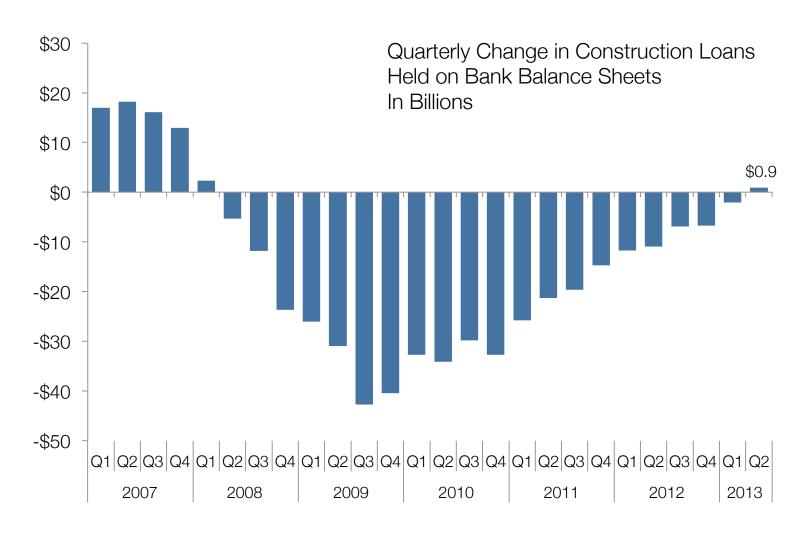
Source: Chandan LoanComps®

Apartment Financing Trends / Q3 Prelims



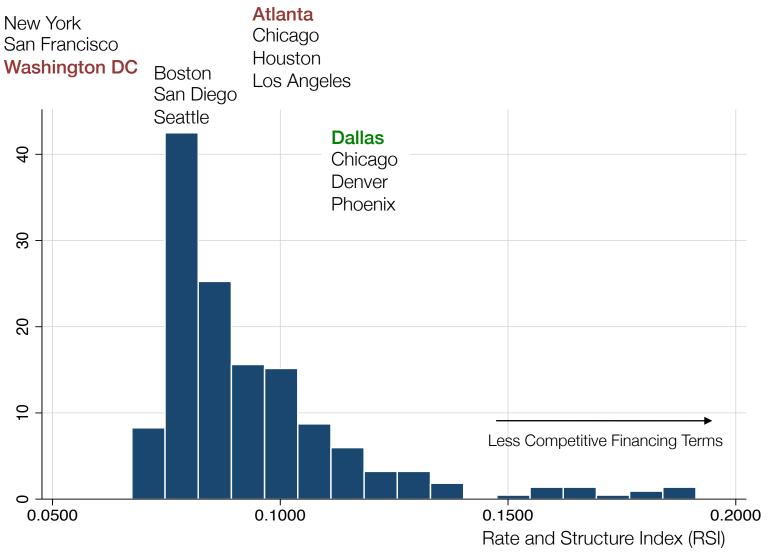


Net Construction Lending Activity



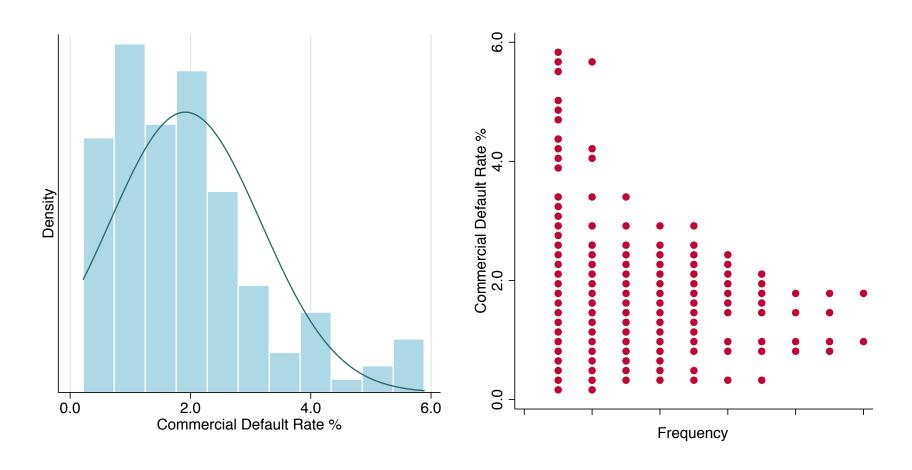
Source: Chandan, Bank Call Reports as of Q2 2013

Competitive Financing



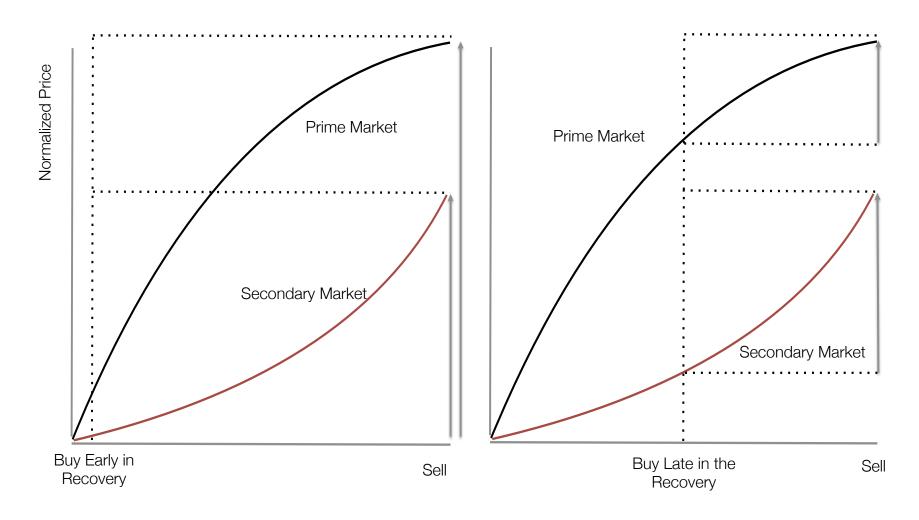
Source: Chandan LoanComps®

Legacy Debt Distribution



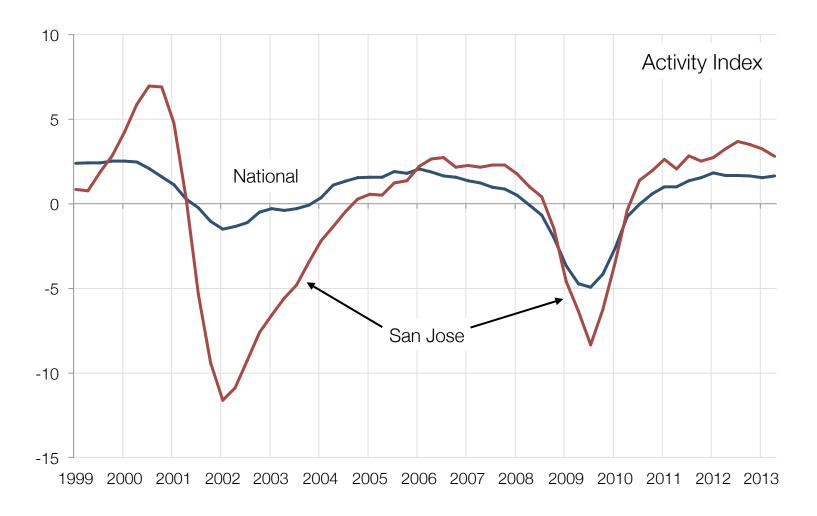
Source: Chandan, Bank Call Reports as of Q2 2013

Secondary Markets & the Lagging Recovery



Source: Chandan

Secondary Markets & the Real Estate Cycle



Source: Bureau of Labor Statistics, Bureau of Economic Analysis, Chandan

Primary & Secondary Markets

	Secondary Market Peak Leads (Quarters)	Secondary Market Trough Lags (Quarters)	Longer Secondary Market Downturn (Quarters)
Apartment	O	2	2
Office	1	5	6
Industrial	2	2	4
Retail	3	3	6

Source: Chandan LoanComps®

Primary & Secondary Markets

Metro Apartment Market Averages

	Maximum Occupancy	Minimum Occupancy	Mean Amplitude	Recovery Mean Effective Rent Growth
Prime	96.4%	94.4%	2.1%	5.8%
All Others	96.6%	91.5%	3.9%	3.7%

Source: Chandan LoanComps®

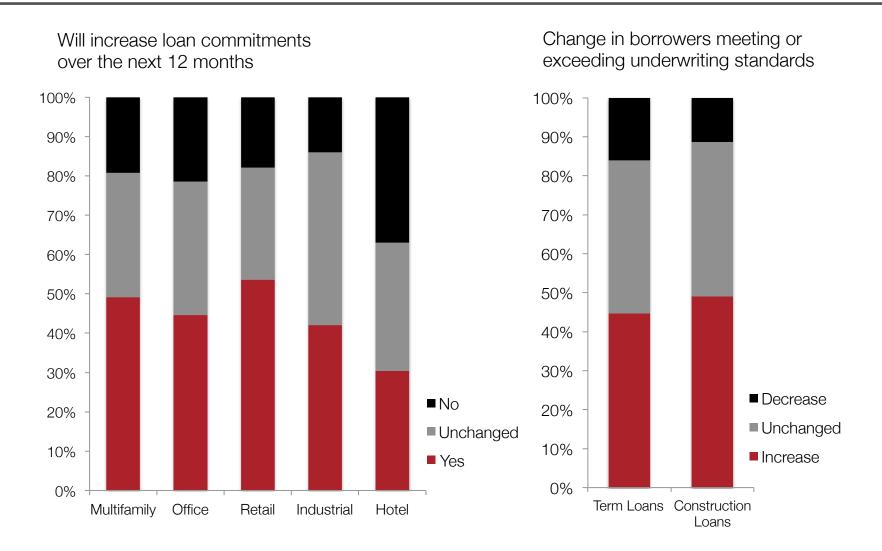
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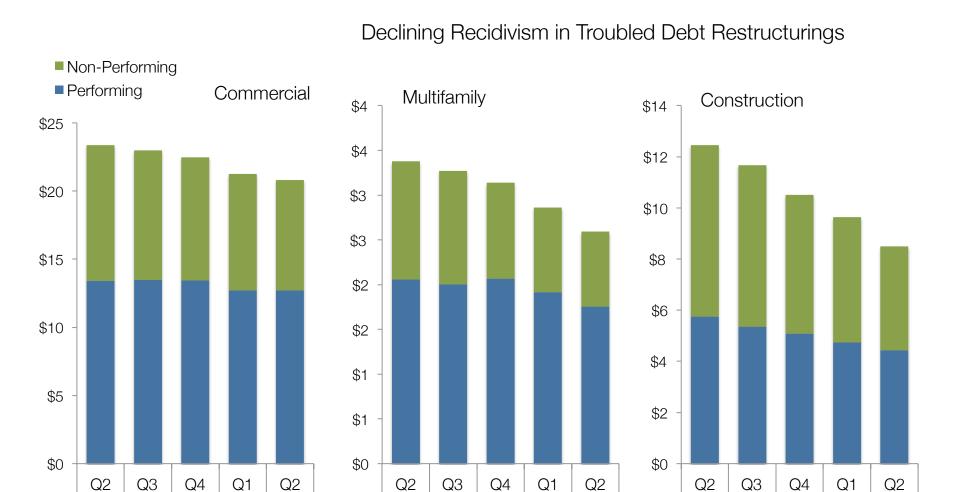
Forward Look

RELA-Chandan Survey of Lender Sentiment



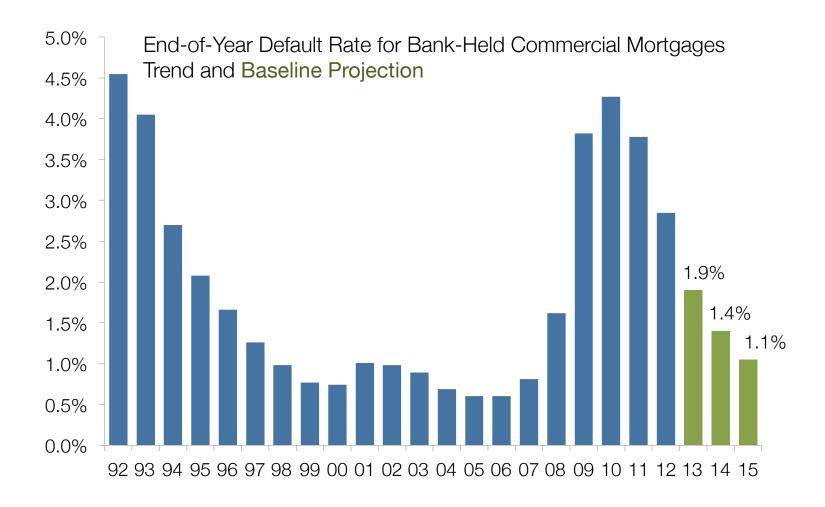
Source: Real Estate Lenders Association, Chandan

Legacy Debt Management



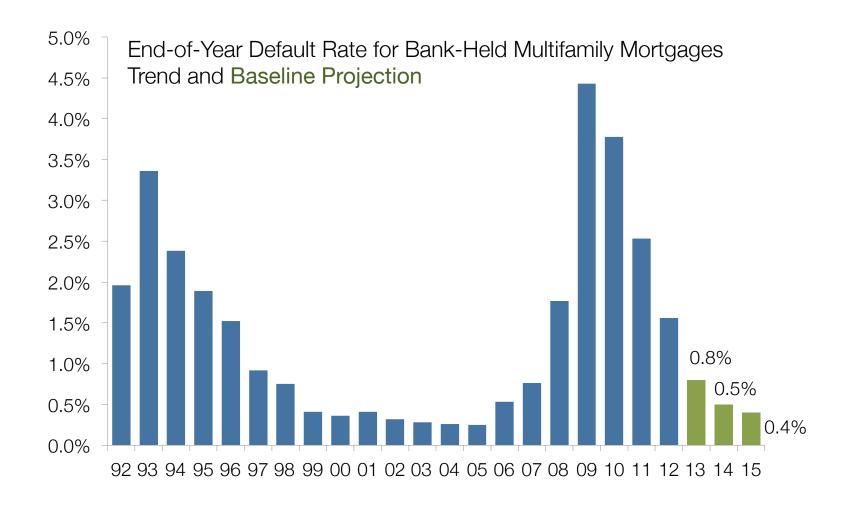
Source: Chandan, Bank Call Reports as of Q2 2013

Legacy Performance Projection



Source: Chandan, Bank Call Reports as of Q2 2013

Legacy Performance Projection



Source: Chandan, Bank Call Reports as of Q2 2013

Forward Look

- Moderate economic growth and higher interest rates imply more limited appreciation
- Adaptation to changing space use patterns across all property types, including apartments
- More lending in more places to more borrowers
- Lenders cede on underwriting as competitive overlaps increase, seasoned loans mature
- Analysis of pending maturities ignores quality and underwriting challenges of seasoned CMBS



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