Identifying Rick Factors in Telecomm

Tuesday, July 31, 2012 8:30 a.m.

Speaker

DR. HAL B. HEATON is a professor of finance at Brigham Young University where he teaches advanced corporate finance and capital markets. He has also served on the finance faculty at the Harvard Business School and the University of Santa Clara. Dr. Heaton holds a Ph.D. in finance from Stanford University, a Masters degree in economics from Stanford University, an MBA from Brigham Young University, and a bachelors degree in mathematics/computer science also from BYU.

Following the completion of his MBA, Dr. Heaton was a consultant with the Boston Consulting Group where he dealt with strategic planning issues for major firms in the paper, farm equipment, lumber, oil, banking, and electronics industries. He currently serves as a consultant to a number of multinational organizations on issues in corporate finance, valuation, exposure management, capital markets and as an expert witness in hearings and court proceedings for cases involving business valuation.

An author of several articles, Dr. Heaton has research interest in valuation and related topics including optimal capital structure, cost of capital, mergers/acquisitions, and capital markets. He has authored articles dealing with business appraisal techniques, the impact of taxation on valuation and firm behavior, and capital market efficiency.

Moderators

ROBERT D. BUTTERBAUGH, CMI, is a Senior Manager in Ernst & Young's Philadelphia office and a leader of the firm's East Central Property Tax practice specializing in property tax consulting and credits and incentives. He has over 26 years of property tax and incentives experience in public accounting and industry where he has provided a range of real and personal property tax services including valuation, litigation support, expert testimony, research, planning and compliance. He has provided property tax administration or consulting services in thirty-eight states. Mr. Butterbaugh received his Bachelor's degree in Accounting from Indiana University and MBA in Finance from DePaul University. Prior to joining Ernst & Young, Bob managed the global grants and incentives and property tax practices for E.I. du Pont de Nemours and Company and was a Partner with another Big 4 accounting firm. Mr. Butterbaugh has been active in the Institute for Professionals in Taxation (IPT), having served as the President for the 2010-2011 term and currently serving on the Board of Governors and the

Professional Designation Committee - Property Tax. He has lectured on various property tax issues for the IPT, Appraisal Workshop for Ad Valorem Taxation of Communications, Energy and Transportation Properties, Broadband Tax Institute, Chicago Tax Club, IBC - Tax Minimization and Compliance for Electric and Gas Utilities and EXNET Utility Tax Conference.

MARK F. SEMERAD, C.M.I., is Senior Manager, Property Tax for Level 3 Communications, Inc. in Broomfield, Colorado. Prior to joining Level 3 in October, 2000, he was Director, Property Tax for ConAgra, Inc. in Omaha, Nebraska for over 16 years where his duties included tax incentive negotiation and lobbying as well as overall property tax management. Prior to joining ConAgra, he served as Attorney, Property Tax Division, Nebraska Department of Revenue. He holds a B. A. degree from Creighton University and a J. D. degree from the University of Nebraska.

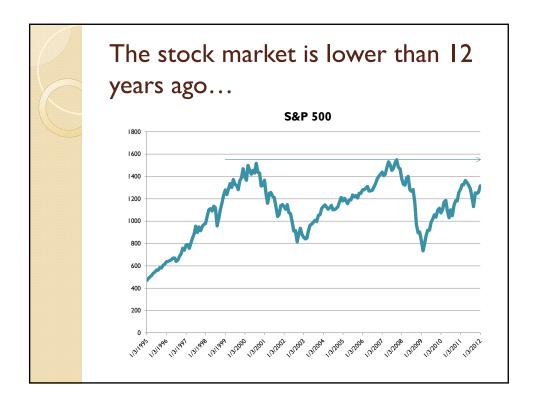
Mr. Semerad is an inactive member of the Nebraska Bar Association and is an inactive Certified Public Accountant. He is a certified member of the Institute for Professionals in Taxation and has been a registered lobbyist in the Nebraska Legislature. Mr. Semerad has served as Chair, Board of Trustees, Nebraska Tax Research Council and President, Nebraska Tax Forum. He has spoken at the Institute for Professionals in Taxation annual conference and property tax symposium and before other local and regional groups. He was formerly a member of the IPT Board of Governors and served as Overall Chair of Property Tax Education. He is also an instructor of the IPT Intermediate Real Estate Tax Management course. He has previously served as chair of that committee.

Telecom Cost of Capital Issues: January 1, 2012

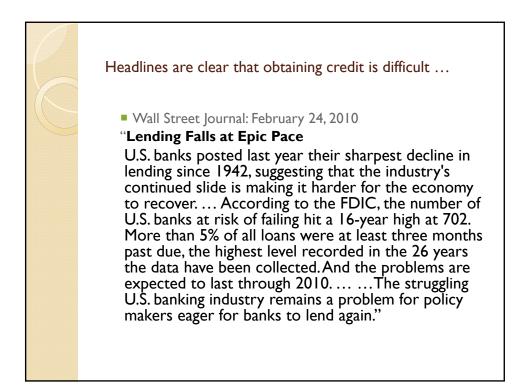
Hal Heaton, PhD

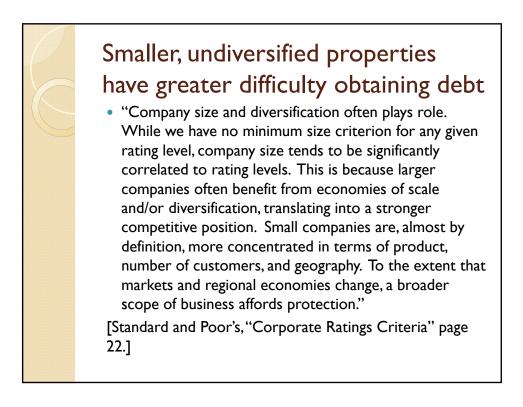
Issues in 2012

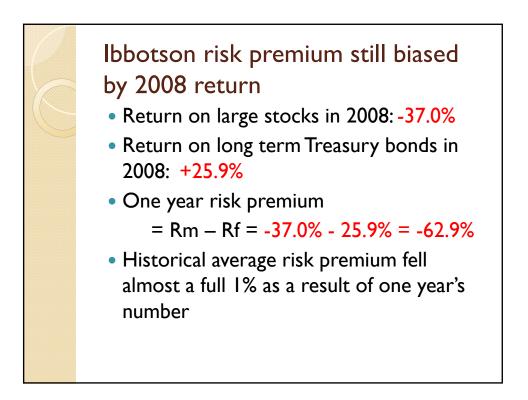
- In typical capitalization model, parameters must be long term
 - Must not reflect short term distortions
 - NOI/k requires that **both** NOI and k be long term
- Debt as percent of capital
 - Debt less available for landline telco with declining customer base
- Appropriate risk premiums
 - $^\circ~$ Historical average still biased low due to massive negative return in 2008
 - Market evidence suggests investors require higher risk premiums than historically
- CAPM estimates unacceptably low
- Dividend Growth Model better
- Decomposing the beta
- Liquidity is a critical issue
 - Adjustments to final value or discount rates essential
- Estimated Cost of Capital

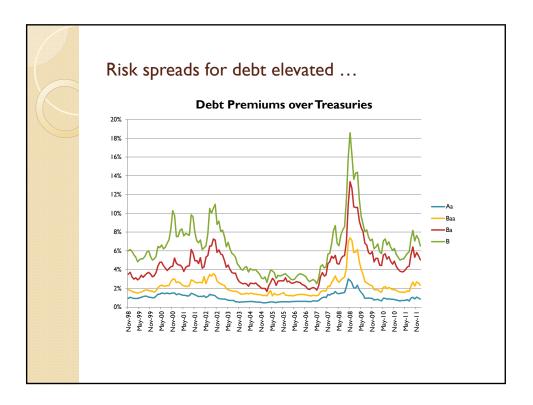




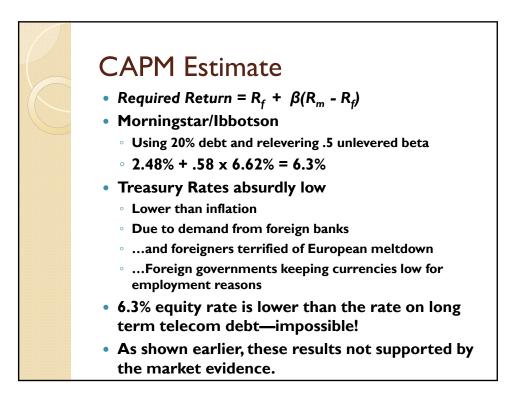




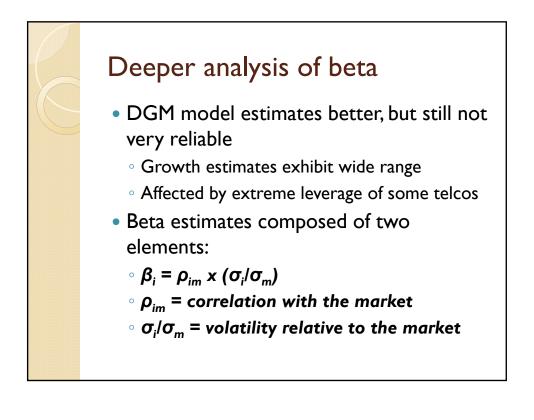


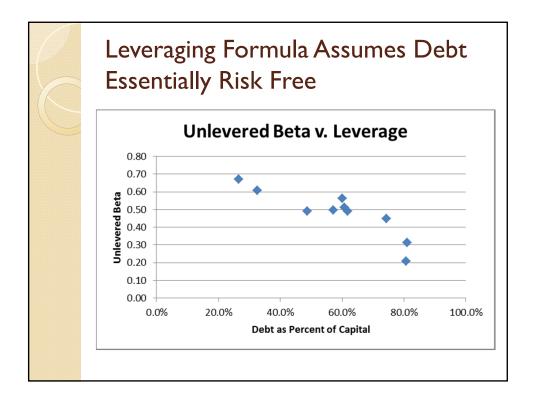


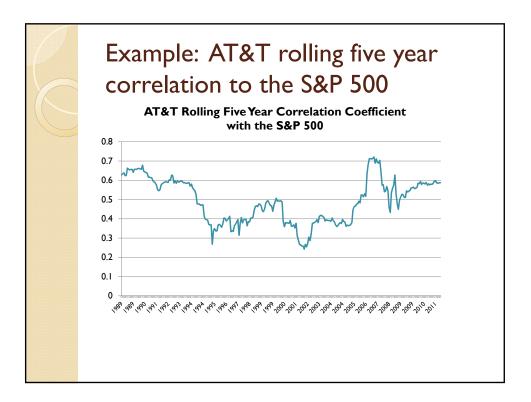
CAPM Data									
	Share Price 12/31/2011	Shares Outstanding (millions)	Market Value of Equity (\$millions)	Debt (\$millions)		: Bloomberg Beta	Unlevered Beta*		
Alaska Communications	\$3.01	45.3	\$136	\$570	80.7%	0.74	0.21		
Cincinnati Bell	\$3.03	195.2	\$591	\$2,534	81.1%	1.13	0.31		
Consolidated Communications	\$19.05	29.9	\$570	\$885	60.8%	1.00	0.51		
CenturyLink	\$37.20	618.5	\$23,009	\$21,836	48.7%	0.78	0.49		
Frontier Communications	\$5.15	995.1	\$5,125	\$8,300	61.8%	0.98	0.49		
Metro PCS	\$8.68	362.5	\$3,146	\$4,744	60.1%	1.08	0.56		
Sprint Nextel	\$2.34	2996.0	\$7,011	\$20,274	74.3%	1.24	0.45		
AT&T	\$30.24	5926.5	\$179,218	\$64,753	26.5%	0.82	0.67		
Verizon Communications	\$40.12	2835.5	\$113,761	\$55,152	32.7%	0.79	0.61		
Windstream	\$11.74	586.3	\$6,883	\$9,150	57.1%	0.90	0.50		

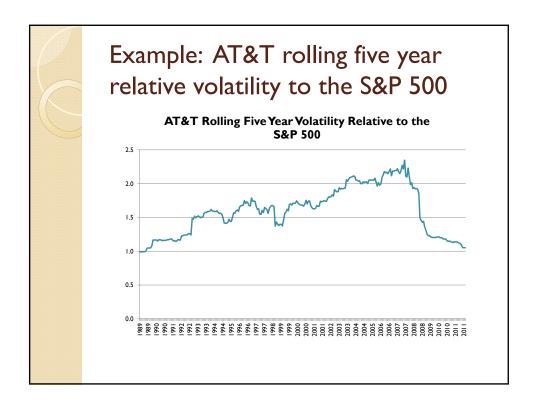


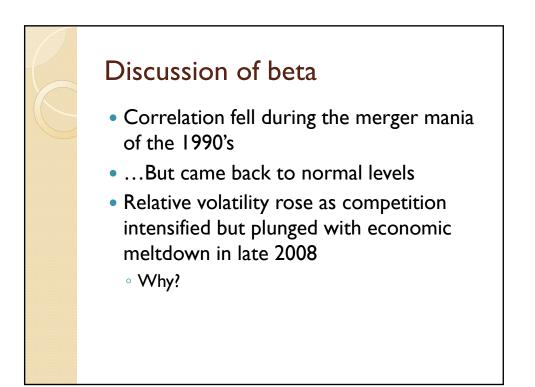
Dividend	Gro	wth	Μ	ode		
	Share Price 12/31/2011	Bloomberg 2012 Cash Distribution Forecast	Yield		Bloomberg Projected Growth	
Alaska Communications	\$3.01	\$0.20	6.6%	NMF	9.0%	15.6%
Cincinnati Bell	\$3.03	\$0.00	0.0%	18.4%	3.0%	10.7%
Consolidated Communications		\$1.55	8.1%	10.8%	1.5%	14.3%
CenturyLink	\$37.20	\$2.90	7.8%	16.1%	-1.3%	15.2%
Frontier Communications	\$5.15	\$0.75	14.6%	21.4%	-5.9%	22.3%
Metro PCS	\$8.68	\$0.00	0.0%	15.3%	19.5%	17.4%
Sprint Nextel	\$2.34	\$0.00	0.0%	NMF	4.0%	4.0%
AT&T	\$30.24	\$1.77	5.9%	9.9%	4.9%	13.2%
Verizon Communications	\$40.12	\$2.05	5.1%	11.5%	8.8%	15.3%
Windstream	\$11.74	\$1.00	8.5%	17.8%	0.2%	17.5%
Average						14.6%

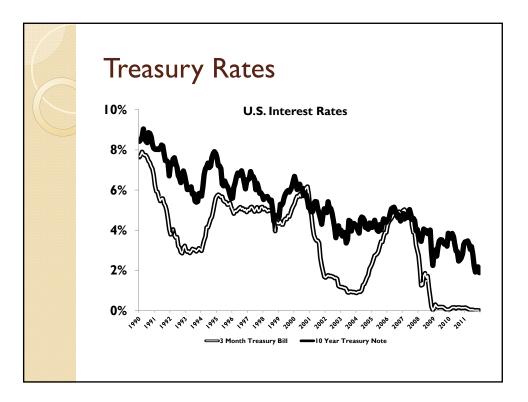


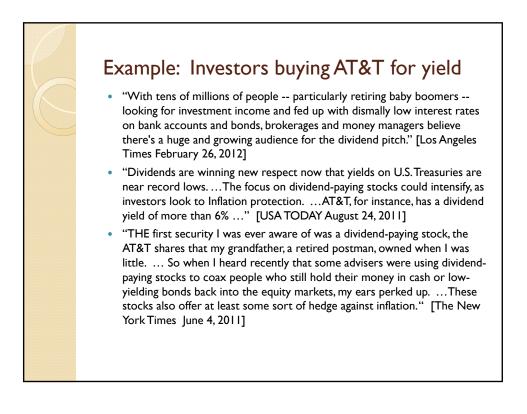


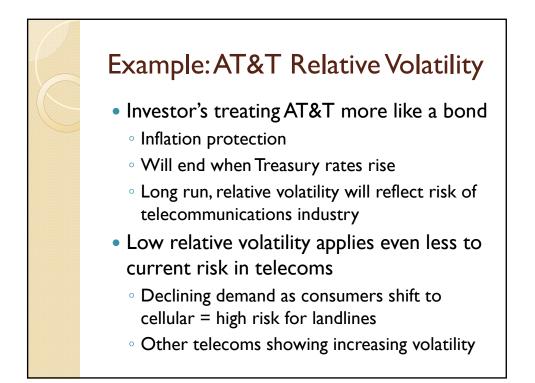


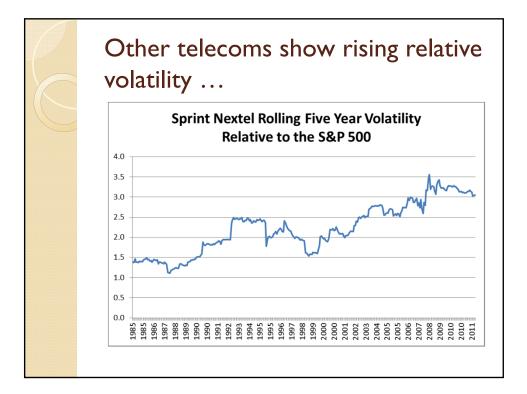


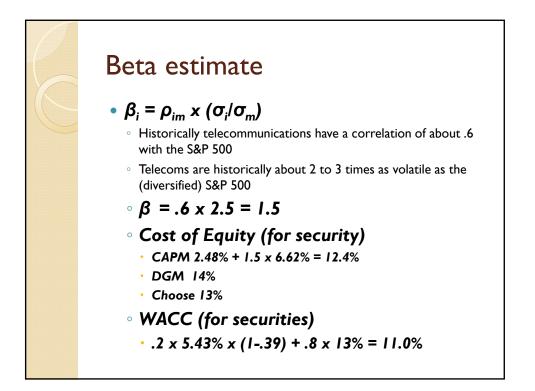


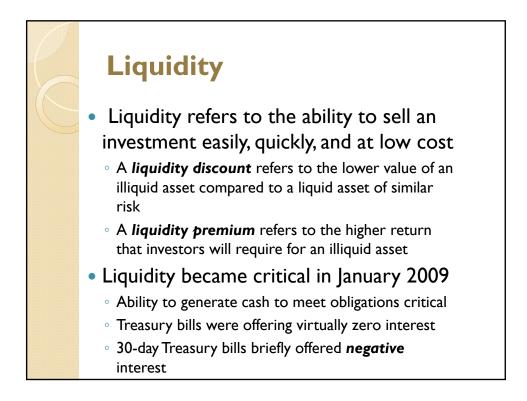






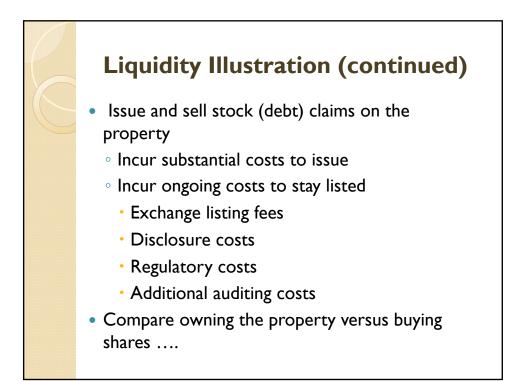


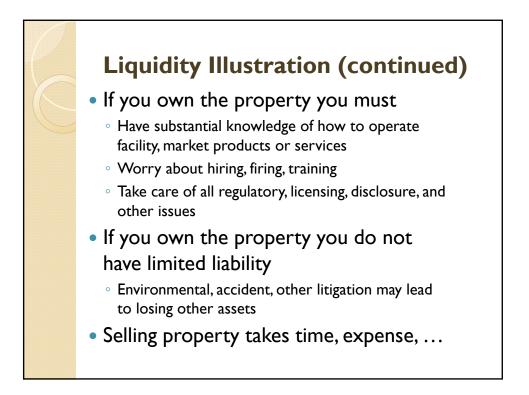


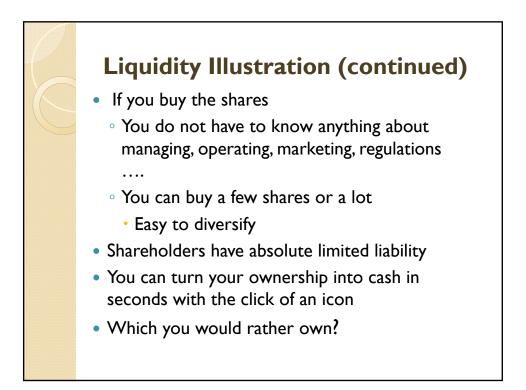


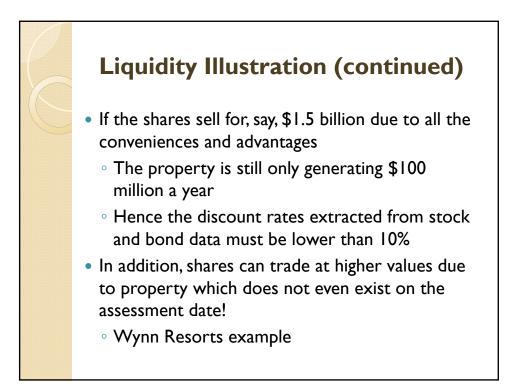
Liquidity: Illustration

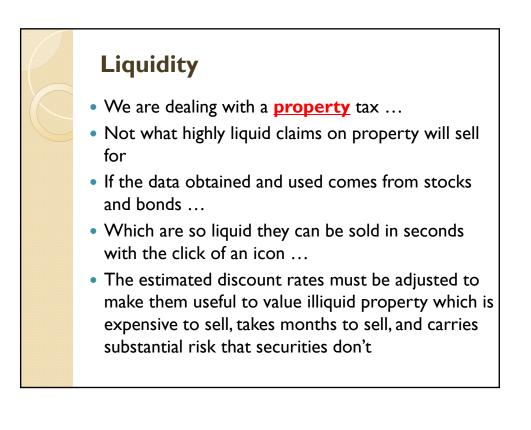
- Build a pipeline/refinery/power plant ...
 Cost \$800 million
- Hire managers, train a work force, market to obtain contracts and customer base
 - Cost \$200 million
- If property generates \$100 million per year and 10% is required rate
 - Value = \$1000 = \$100 / 10%
- May need intangibles such as patents, licenses, copyrights, intellectual property
 - $^\circ\,$ Higher revenue/cash flow/value to compensate
- Problem: what is value for property taxes?





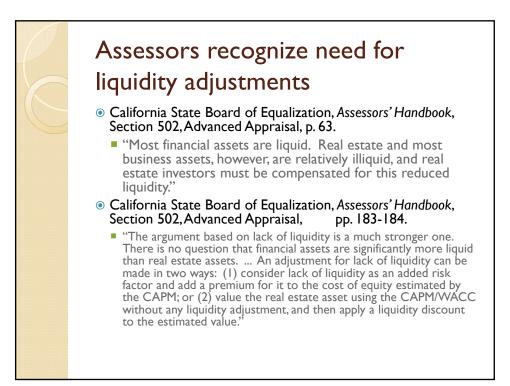


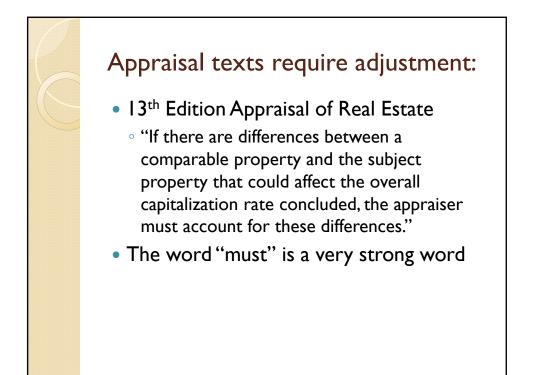




Using Securities Data

- Securities are very liquid
- Securities can be sold in small or large amounts
- Operating property requires dealing with management hassles
- Securities have absolute limited liability
- Securities represent ownership in companies than can expand, enter new businesses
- Securities capture value from assets that do not even exist on the lien date
- Securities capture all intangible values
- Not only do these facts affect extracted rates, it means measures of "market/book" do not mean there is no 'economic obsolescence'



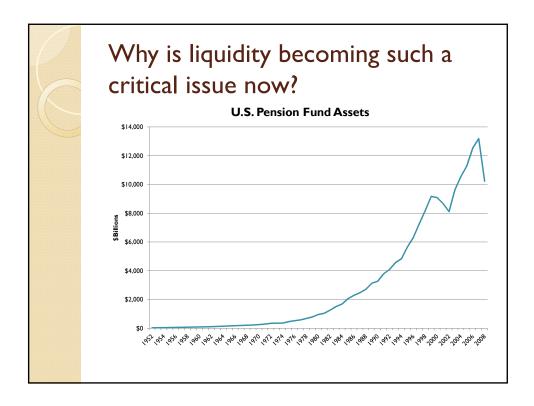


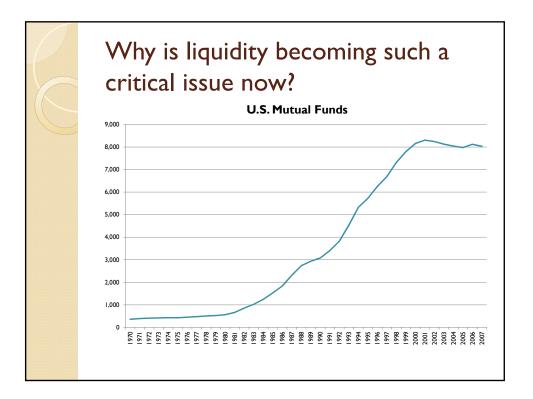
Size	premium	represents	a	minimum

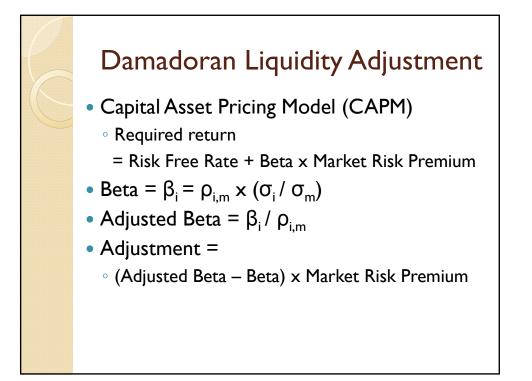
adjustment ...

Size Premia (market capitalization in millions) ⁴

Company		Company	Excess of CAPN
\$1,621.096	_	\$6,896.389	1.14%
422.999	-	1,620.860	1.88
1.028	-	422.811	3.89
10			
15,484.940	-	354,351.912	-0.38
6,927.557	-	15,408.314	0.78
3,596.535	_	6,896.389	0.94
2,366.464	_	3,577.774	1.17
1,621.096	-	2,362.532	1.74
1,090.652	-	1,620.860	1.75
683.059	-	1,090.515	1.77
422.999	_	682.750	2.51
206.802	-	422.811	2.80
1.028		206.795	6.10
	422.999 1.028 15,484.940 6,927.557 3,596.535 2,366.464 1,621.096 1,090.652 683.059 422.999 206.802	422.999 – 1.028 – 15,484.940 – 6,927.557 – 3,596.535 – 2,366.464 – 1,621.096 – 1,090.652 – 683.059 – 422.999 – 206.802 –	422.999 - 1,620.860 1.028 - 422.811 10 - 354,351.912 6,927.557 - 15,408.314 3,596.535 - 6,896.389 2,366.464 - 3,577.774 1,621.096 - 2,362.532 1,090.652 - 1,620.860 683.059 - 1,090.515 422.999 - 682.750 206.802 - 422.811







			dity			
	Bloomberg Beta	R-squared	Damodaran Adjusted Beta	Difference in Equity Return	Percent Debt	Difference in WACC
Alaska Communications		0.114	1.20	3.03%	80.7%	0.58%
Cincinnati Bell	1.13	0.381	1.82	4.60%	81.0%	0.87%
Consolidated Communications	1.00	0.383	1.61	4.06%	60.8%	1.59%
CenturyLink	0.78	0.284	1.45	4.50%	49.1%	2.29%
Frontier Communications	0.98	0.443	1.47	3.25%	61.5%	1.25%
Metro PCS	1.08	0.222	2.30	8.04%	60.1%	3.20%
Sprint Nextel	1.24	0.220	2.64	9.28%	72.6%	2.55%
AT&T	0.82	0.482	1.18	2.39%	28.4%	1.71%
Verizon Communications	0.79	0.462	1.16	2.46%	32.7%	1.65%
Windstream	0.90	0.490	1.29	2.56%	51.7%	1.24%
Average	0.94		1.61	4.47%		1.69%

Summary

- Prevailing debt/equity ratios in early 2012 biased high
 - Must tie debt capacity to subject property
 - Comparable companies are large, diversified corporations
- CAPM approach does not produce credible results
 - Must adjust beta for unusual economic circumstances
 - Long run cash flows require long run risk measure
- CAPM approach still low even after adjustment
 - Treasury rate not realistic
 - Equity risk premium still biased low
- DGM expected growth estimates very wide
- Must adjust for differences between securities and illiquid property
 - Illiquidity/Size adjustment
 - Damodaran approach