



# Credit Quality and the New Dynamics of Credit Ratings

#### California Debt and Investment Advisory Commission Municipal Debt Essentials

Kellogg Center West Pomona, California March 14, 2012 Angela M. Kukoda
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## This Session

- Focused on ratings and what they mean in the marketplace from a practitioner perspective
- How do ratings impact you as a borrower?
- How do you manage the rating relationship?
- What changes are we seeing in the market?
- Interactive dialogue

## Overview

Nikolai J. Sklaroff

# The Rating Agencies

- Independent firms so each is different
  - Different definitions of what a rating is
  - Different criteria; are opinions not formulas
- Moody's indicates there are \$80 trillion of rated bonds and other fixed-income securities and "dozens" of rating agencies around the world

# **Regulatory Definitions**

- Credit Rating Agency Reform Act in 2006
- Provided the SEC with authority to:
  - Impose registration, recordkeeping, and reporting rules on credit rating agencies registered as Nationally Recognized Statistical Rating Organizations (NRSRO).
  - Currently 11 credit rating agencies are registered with the Commission as NRSROs.
- Principally focused on three here in U.S. public finance: Moody's Investors Service, Standard & Poor's and Fitch Ratings

#### Who are all the NRSROs?

- Nationally Recognized Statistical Rating Organizations -SEC Orders Granting NRSRO Registration
  - Egan-Jones Rating Company (Release No. 34-59056)
  - Realpoint LLC (Release No. 34-58000)
  - LACE Financial Corp. (Release No. 34-57300)
  - A.M. Best Company, Inc. (Release No. 34-56507)
  - o DBRS Ltd. (Release No. 34-56508)
  - Egan-Jones Rating Company (Release No. 34-57031)
  - Fitch, Inc. (Release No. 34-56509)
  - Japan Credit Rating Agency, Ltd. (Release No. 34-56510)
  - Moody's Investors Service, Inc. (Release No. 34-56511)
  - Rating and Investment Information, Inc. (Release No. 34-56512)
  - Standard & Poor's Ratings Services (Release No. 34-56513)

#### Moody's Investors Service

#### Moody's Ratings System

#### In Brief

#### What is a rating?

A rating is Moody's opinion of the credit quality of individual obligations or of an issuer's general creditworthiness.

#### What a rating is not...

Ratings are not recommendations to buy or sell, nor are they a guarantee that default will not occur.

#### How do the capital markets use ratings?

Investors use ratings to help price the oredit risk of fixedincome securities they may buy or sell. Many also use ratings as limits on their investment parameters and as means for expanding their investment horizons to markets or security types they do not cover by their own analysis. Because major investors globally rely on Moody's ratings, the ratings help to provide issuers of debt with stable, flexible access to those sources of capital.

#### What types of securities does Moody's rate?

Any type of debt or related obligation of interest to institutional investors, e.g., bonds, debentures, asset-backed and mortgagebacked securities, convertible bonds, medium-term notes, derivative securities, etc.

#### What do credit ratings measure?

Moody's credit ratings represent a rank-ordering of creditworthiness, or expected loss. Expected loss is a function of the probability of default and the expected severity of loss given a default. Ratings are forward looking in that the rank ordering is designed to hold across multiple horizons.

While a rating summarizes the oredit risk characteristics of an obligor or obligation, it is not a statement as to which obligors or obligations will default in the future. Rather, it is expected that lower rated entities and obligations will default, on average, at a higher frequency than more highly rated entities and obligations.

#### What is Moody's rating process?

#### The rating process:

 gathers information sufficient to evaluate risk to investors who might own or buy a given security,

- develops a conclusion in committee on the appropriate rating,
- monitors on an ongoing basis to determine whether the rating should be changed, and
- informs the marketplace and market participants of Moody's actions.

#### How does a Moody's rating committee work?

Moody's rating's are initially determined or subsequently changed through committee. The lead analyst for a given company, industry, country, or asset type frames the discussion, including offering the rating recommendation and its rationale.

At minimum, the committee includes a managing director or other designated individual and the lead analyst. The committee may be expanded to include as many perspectives and disciplines as are needed to address all analytical issues relevant to the issuer and the security being rated.

Issues affecting the size of the committee may include the size of the issuer, complexity of the security, geography, or whether a transaction of the type has ever been done before. The discussions of the committees are strictly confidential, and only Moody's analysts may serve on a committee.

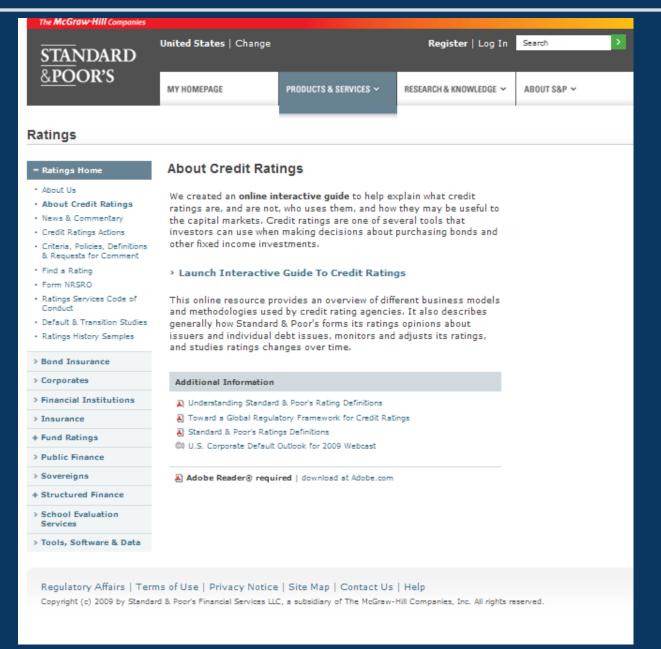
#### What sources of information do analysts use?

- Publicly available data, e.g., annual reports.
- Prospectuses, offering circulars, offering memoranda, trust deeds, or indentures of particular securities.
- Market data, e.g., stock price trends, trading volume, data on bond price spreads.

Moody's Investors Service

#### www.moodys.com

#### Standard & Poor's



#### www.standardandpoors.com

## Fitch Ratings

#### FitchRatings

#### Sectors Market Focus Tools Surveillance Fitch Solutions Fitch Training

Code of Conduct

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#### In the Spotlight

Get comprehensive coverage on the State of the Capital Markets

New Integrated Data Service offers customized data sets <u>deliver</u>ed as a single feed

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Assess and evaluate residential mortgage loans with ResiEMEA

Compare your CMBS deals to industry averages with U.S. CMBS VintageView

CDS Liquidity Scores: a measure of liquidity risk for the CDS market



#### **Current Feature**

#### Fitch Solutions: Major Global CDS Liquidity Shift

Though CDS liquidity is back to levels prior to the Lehman bankruptcy, two major structural shifts distinguish the current levels, according to Fitch Solutions in its latest Global Liquidity Scores Commentary. The percentage of names with liquidity scores below 7.5 (or most liquid names) has dropped significantly from 12.6% to only 5.1% as of Oct.30. The other crucial difference is that the semi-liquid section of the market has become much more liquid.

Featured Articles	Latest Headlines
> Fitch Places Berkshire Hathaway on Rating Watch Negative	GLOBAL ASIA EUROPE U.S. RS
<ul> <li>&gt; Fitch Webcast: High Recoveries Still Possible For Low Rated U.S. RMBS; 11/12 @ 10AM ET</li> <li>&gt; Fitch: Operating Environment for Europe's Airlines to Remain Tough</li> <li>&gt; Most-Viewed Reports</li> </ul>	05 Nov 2008 > Fitch Downgrades 3 Tranches of FTPYME TDA Sabadell 1 & 2; Affirms Others 05 Nov 2009 > Fitch Rates Lake Arrowhead CSD, California's \$24MM COPs 'AA-'; Outlook Stable 05 Nov 2009 > Fitch Places Berkshire Hathaway on Rating Watch Negative 05 Nov 2009 > Fitch Rates Long Beach Airport, California's Sr Lien 'A-'; Outlook Stable > View All Headlines
About Fitch Ratings	

with independent, timely and prospective credit opinions. Built on a foundation of organic growth and strategic acquisitions, Fitch Ratings has grown rapidly during the past decade gaining market

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#### Credit Ratings

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New sources of credit information:

Financial Times: "Kroll aims to bring investigative powers to credit rating industry" <sup>(1)</sup>

Financial Times: "Analyst [Oppenheimer's Meredith Whitney] to rival Moody's and S&P with own rating agency" <sup>(2)</sup>

Bond Buyer: "National Public Finance Offers Credit Reports" <sup>(3)</sup>

(1) Masters, Brooke. "Kroll aims to bring investigative powers to credit ratings industry." 10/19/09. Financial Times.

(2) Van Duyn, Aline. "Analyst to rival Moody's and S&P with own rating agency." 11/19/10. Financial Times.

(3) Seymour, Dan. "National Public Finance Offers Credit Reports." 10/27/09. The Bond Buyer.

# Rating Relationships in a Challenging Environment

Angela M. Kukoda

# Review: How are US Municipal Borrowings Secured?

- The two principal types of municipal debt are distinguishable by their security characteristics:
  - General Obligation ("G.O.") Bonds
    - Backed by the full faith and credit of a state, local government, or non-profit institution
    - All sources of revenue, unless specifically limited, will be used to pay debt service on the bonds
  - Revenue Bonds
    - Issued to finance specific revenue-generated projects or utility systems
    - Secured solely by the revenues from the financed project or system

### Review: Revenue Bonds

- Traditionally, revenue bonds have been secured by a first lien on net revenues. This means that debt service is paid out of net revenues - the funds that remain after the normal operating costs have been paid
- A gross lien bond, on the other hand, is one where debt service is paid directly from the gross revenues before the payment of operating expenses
- First-lien bonds are also called senior-lien bonds. Bonds that enjoy the same lien are said to be on parity with each other
- Subordinate-lien bonds, which are also called junior-lien bonds or second- or third-lien bonds, may be issued under a closed-end resolution, meaning that any new bonds must have a subordinate position
- Another reason to issue junior-lien bonds is that, over time, the credit quality of senior-lien bonds may have risen. The issuer may determine that the senior-lien credit is so strong that a well-structured junior-lien bond will be rated relatively close to the senior bonds

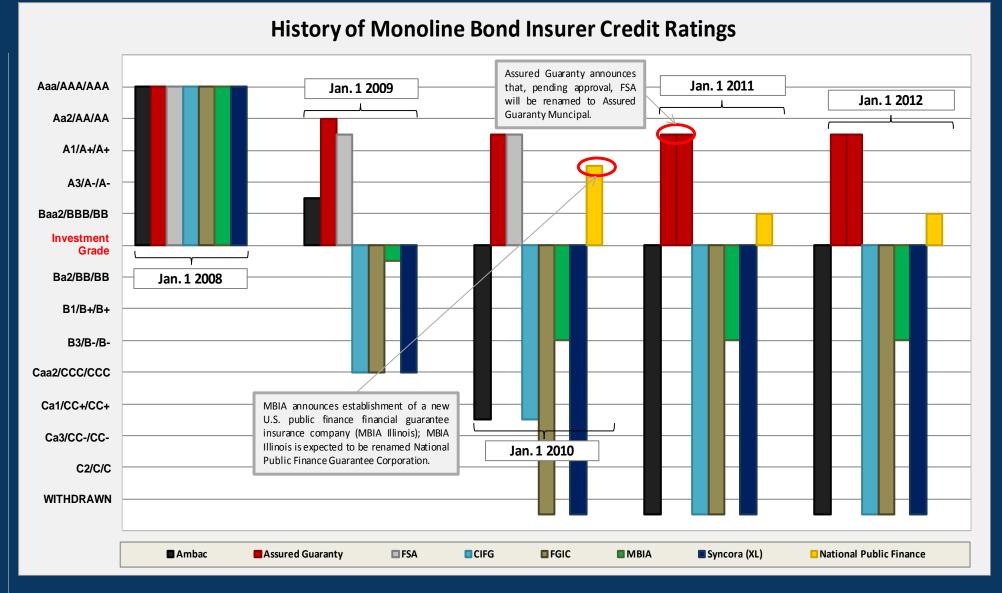
### Review: Revenue Bonds

Examples of Revenue Debt Issued	Sources of Funds to Secure Revenue Debt
University and Hospital Facilities	Student tuition, room and board fees, endowments, patient revenue and state aid fees
Highways and Roads	Tolls, motor vehicle taxes and license fees, gasoline taxes
Affordable Housing	Rent payments, federal and state subsidies, equity interest in mortgages held by enterprise, non-housing rental revenues
Mass Transportation	Fare box, state sales taxes, facility or equipment lease rental payments, concession revenues
Airports	Landing fees, concession and/or rent revenues, passenger facilities charges
Municipal Projects	Municipal loan repayments, state aid intercepts, property tax increments, dedicated sales and other taxes
Water and Sewer Systems	Water and sewer rates and charges
Waste Disposal and/or Treatment Facilities	"Tipping" fees, sanitation collection charges, waste burning power sales revenues, recycled product sales revenues
Electric Utilities	Electric rates and charges, "take or pay" contract revenues

## The Importance of Bond Ratings

- More important to investors since September 2008 financial meltdown
  - Lack of viable credit enhancement
    - No more active "Triple-A" insurers
  - Investor skittishness about municipals
    - Media speculation about possible spike in municipal defaults
- Rating agencies under increased pressure to conduct frequent rating reviews
  - All three major rating agencies—Moody's Investors Service, Standard & Poor's Corporation, and Fitch Ratings—moving toward annual surveillance cycles
- Maintaining a continuous dialog with the rating agencies is essential
  - Rating changes can and often do occur in the interim of bond sales
  - Even if there are no imminent plans to issue debt, rating actions taken today can have a significant impact on future borrowing costs

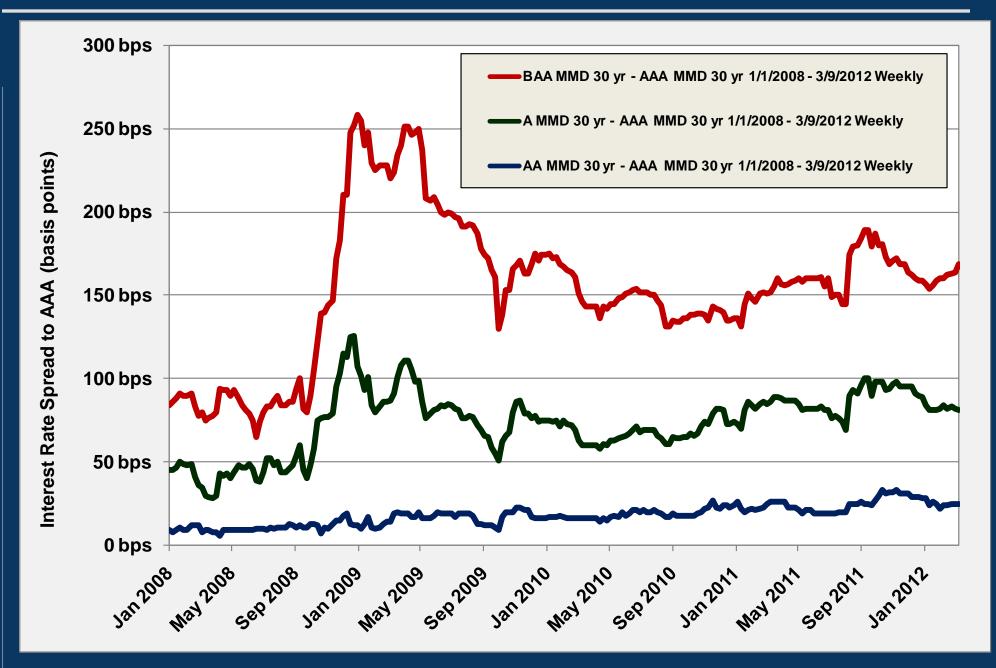
# Bond Insurer Ratings In a Free Fall



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Source: Moody's Investor Service, Standard & Poor's Corporation, Fitch Ratings Data reflective of lowest rating among the rating agencies at each point in time

## Historical Credit Spreads as of March 9, 2012



### Credit Spreads Are Much Wider

- Concurrent with the September 2008 financial crisis, credit spreads exploded
- The MMD tracks credit spreads for G.O. issues
  - Credit spreads are slightly wider for essential service water and sewer bonds
  - Even wider for certificates of participation and lease revenue bonds
  - Wider still for airport and other transportation bonds
- Split ratings bond ratings are problematic for issuers
  - Split occurs when rating agencies rate an issuer's bonds in different categories
  - In a "buyer's market," such as today's, bonds tend to price closer to the lower rating
- Even within rating categories, there are credit differentials
  - For example, an "A+" rated bond would price at a lower yield than an "A" rated bond

#### Outlooks Are Important Too

RE: \$165,090,000 CITY OF SAN ANTONIO, (A political subdivis WATER SYSTEM REVENUE SERIES 2011A	ion of the State of Texa	as located primarily in Bexar County)
WE HAVE A RECEIVED TH	E WRITTEN AWARD. TRADE 1	TIME SET FOR 2:00PM EDT.
MOODY'S: Aal	S&P: AA	FITCH: AA+
(Stable)	(Stable)	(Stable)
DATED:08/15/2011	FIRST COUPON:05/15/2012	INTEREST ACCRUES:10/06/2011
DUE: 05/15		
	AI	DD'L
		AKEDOWN
MATURITY AMOUNT		Pts)
05/15/2012 665M		
05/15/2013 5,400M	3.00% 0.38 (Approx. \$ Price 104.	.196)
05/15/2014 1,385	2.00% 0.52	

#### Outlooks have also become more important to investors

- Municipal bonds are not viewed as commodities, especially with limited viable credit enhancement
- Any additional information available to help distinguish between investment choices is valuable
- Outlooks are now posted on pricing wires
  - A "positive" outlook can truly have a positive effect on pricing and a "negative" outlook, a negative effect

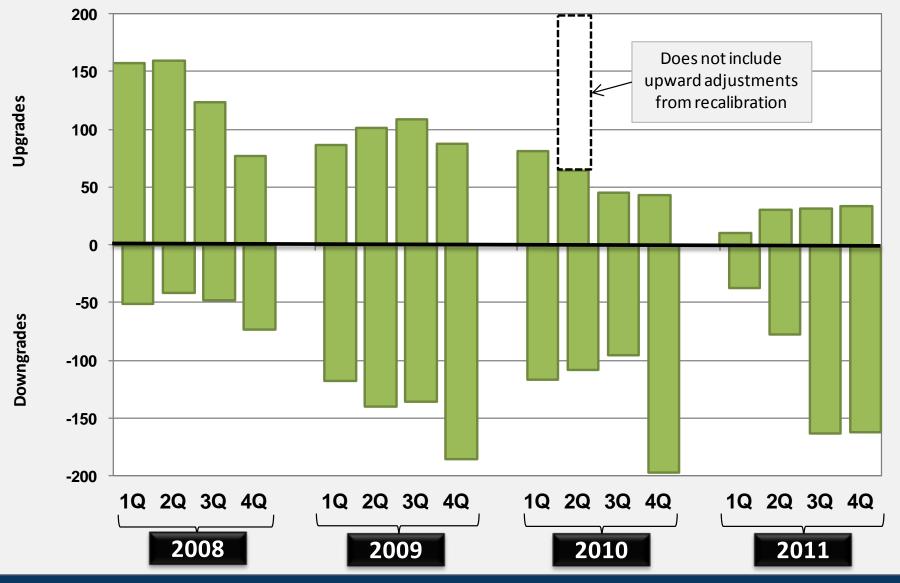
### What Does It Mean In Dollars and Cents?

Assuming a \$20 million bond issue repaid over 30 years, a municipality could expect the following additional cost associated with a negative change in outlook or downgrade of one notch

Debt Type	Rating (Outlook)	TIC	Change in TIC Between Categories		Change in Avg. Annual D/S Between Categories		Change inTotal D/S Between Categories
GO	A+ (Stable)	3.74%		\$1,119,776		\$33,593,281	
COPs	A (Stable)	4.09%	0.35%	\$1,169,431	\$49,655	\$35,082,917	\$1,489,636
COPs	A (Negative)	4.14%	0.05%	\$1,177,016	\$7,586	\$35,310,483	\$227,566
COPs	A- (Stable)	4.25%	0.11%	\$1,191,256	\$14,239	\$35,737,668	\$427,185

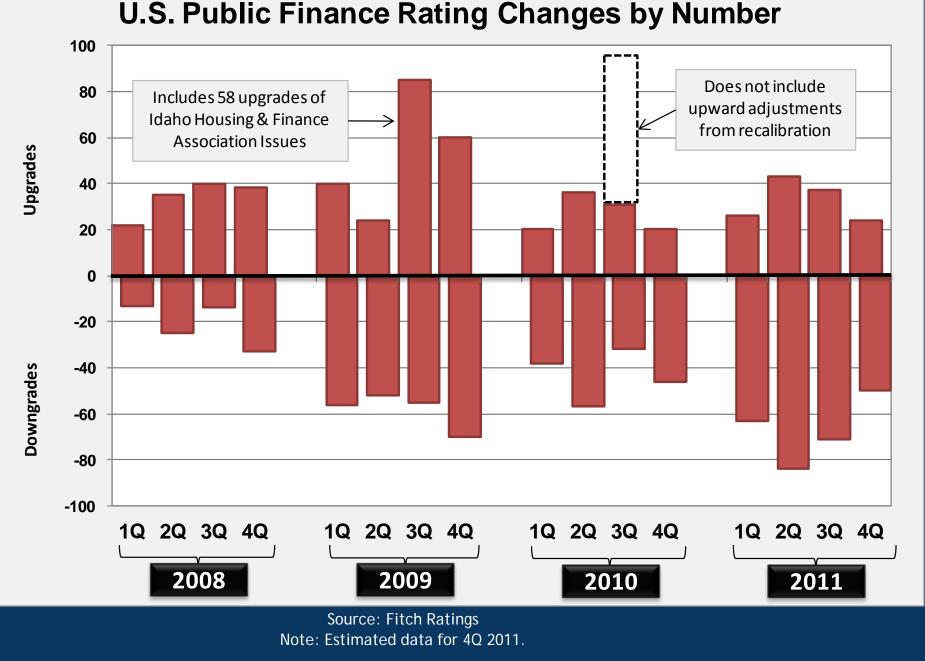
# Rating Trends Through the Recession: Moody's

**U.S. Public Finance Rating Changes by Number** 



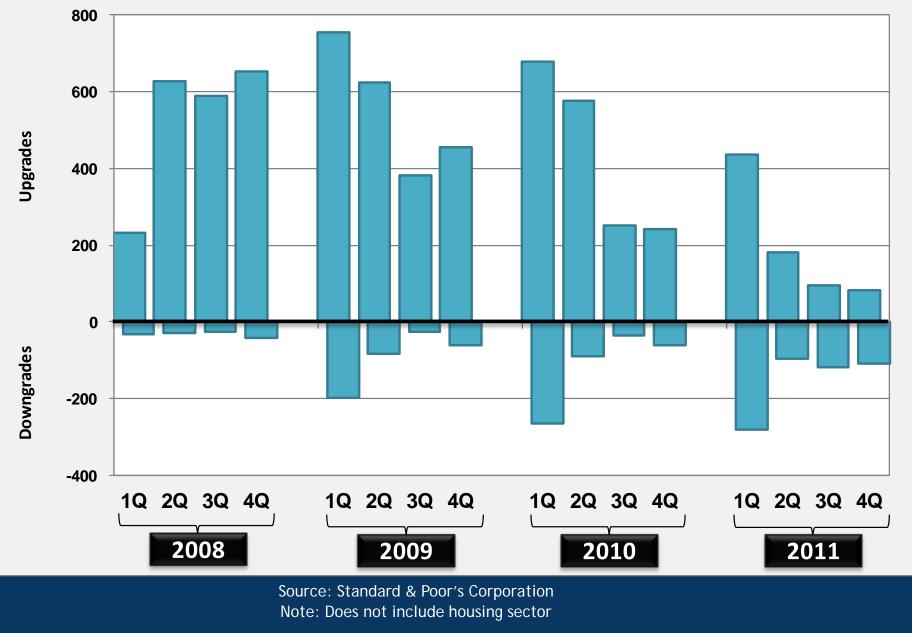
Source: Moody's Investor Service

## Rating Trends Through the Recession: Fitch



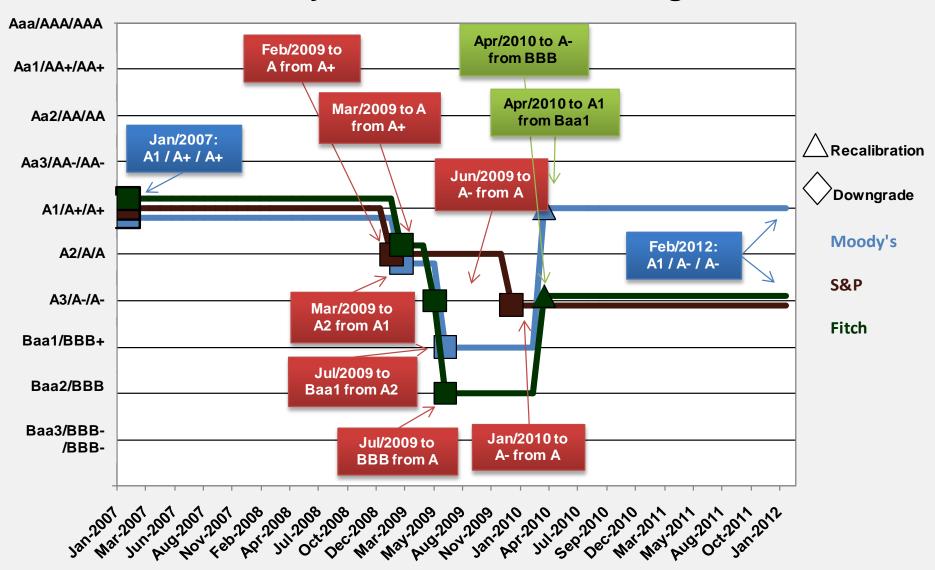
## Rating Trends Through the Recession: S&P

**U.S. Public Finance Rating Changes by Number** 



# California's General Obligation Ratings

#### **History of California's GO Ratings**



Source: Moody's Investor Service, Standard & Poor's Corporation, Fitch Ratings

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Credit Ratings

#### Developing a Rating Strategy In A Challenging Environment

- Respond to rating agency inquiries a timely manner
  - Most likely to ask for latest audited financial statements and adopted budget
  - May ask for completion of questionnaire, depending on sector
  - Ratings may be suspended due to insufficient information!
- Schedule a conference call or meeting
  - Opportunity to provide explanation of financial results if audit hasn't been completed and/or discuss outlook for current fiscal year
- Focus on issues of concern cited in the report that was issued at the time of the last review or sale
  - In most cases, it is <u>not</u> necessary to go back any further
- Demonstrate if and how you have addressed these issues or have a long-term strategy
- Same approach applies when seeking an upward rating or outlook adjustment
- Be prepared to discuss funding of pension and OPEB requirements

### Good News?

- Most reviews during the economic downturn have resulted in rating and outlook affirmations
- In recognition of the relative strength of the municipal sector, Moody's and Fitch implemented widespread rating recalibrations
- Over the past few years, S&P criteria revisions have resulted in many upgrades in conjunction with full, regularly-scheduled reviews
- A number of credits have been upgraded to "Triple-A," based on improved credit quality
  - San Diego County issuer credit rating upgraded to "AAA" by S&P in September 2008!
- Rating process has become more transparent for issuers and investors

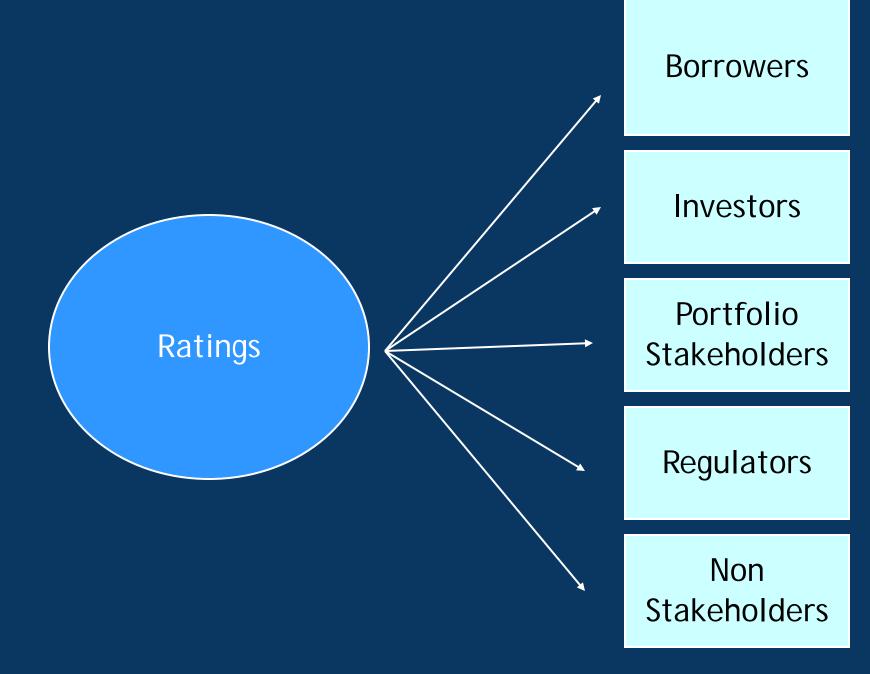
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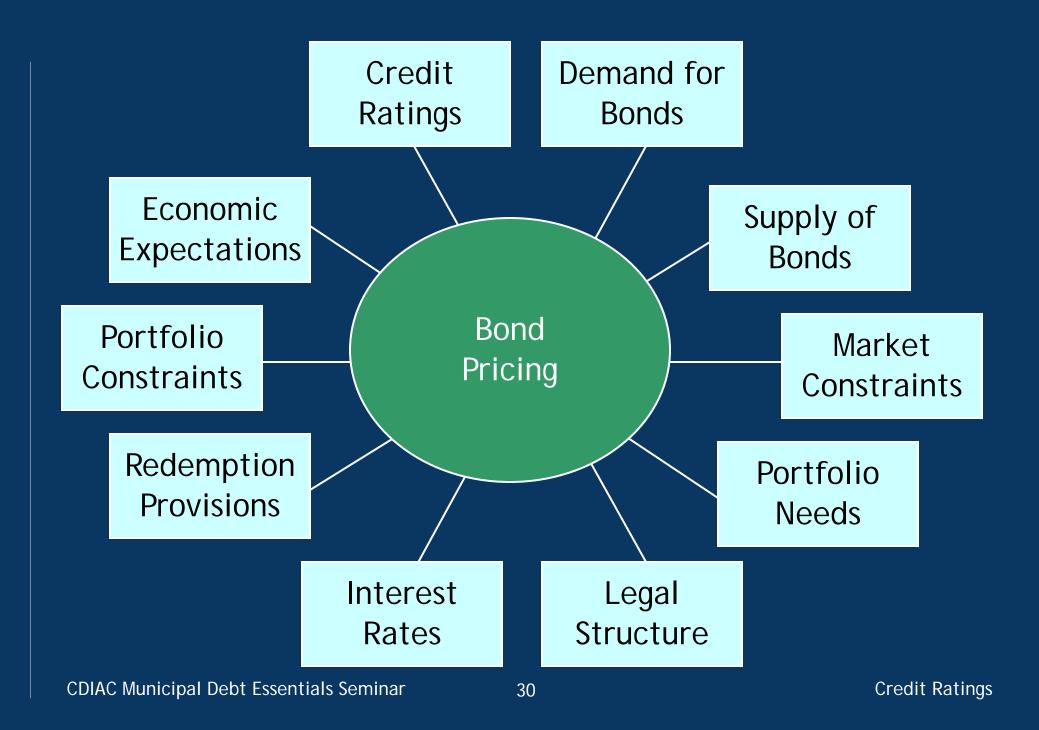
# **Closing Thoughts**

Nikolai J. Sklaroff

### Ratings Are Used in Many Ways



# Factors in the Pricing of Bonds



## Market Perceptions of Rating Agencies

Global Financial Turmoil

#### Role of the Rating?

Regulatory Oversight

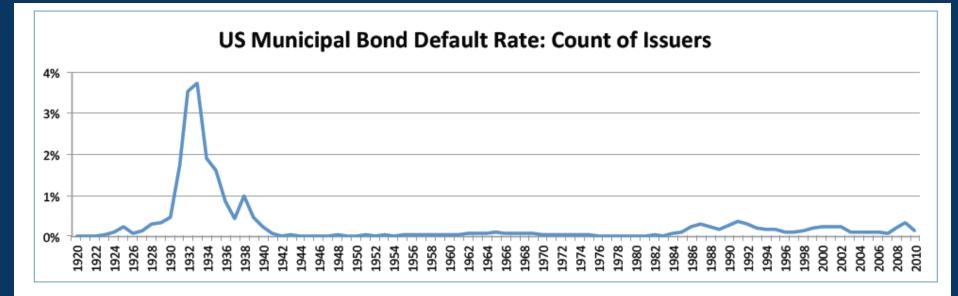
> Potential New Competitors

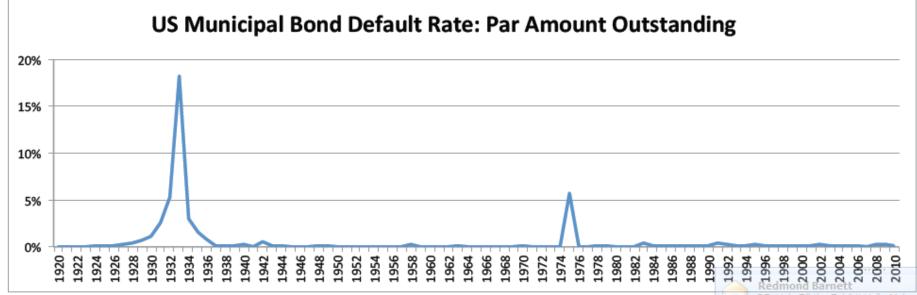
Role of the Rating Agencies is More Important than Ever

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Credit Ratings

## Defaults? Kroll Ratings Default Study





Sources: The 1920-1939 default counts and amounts are from KBRA's default database. The 1940-1979 data are from KBRA's default database, plus US Advisory Commission on Intergovernmental Relations publications (1973, 1985). Post-1980 default data are from Income Securities Advisors, Inc. and market size data comes from *The Bond Buyer* and SIFMA.

# **Outlook for Rating Agencies**

#### Remain vital and relevant

- Changes are coming around the globe
- Regulatory focus
- Congressional focus
- Internal changes and introspection

# Tips for Working with Rating Agencies

- Selecting a Rating Agency
- Selecting the Number of Ratings
- Managing the Rating Request and Process
  - What are you asking for?
- Tips for Communicating with Rating Analysts (and Other Credit Analysts)
  - How to deal with bad or negative news
- Presentations and Site Tours
  - Maintaining the Rating After the Bonds Are Sold

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