

The 2012 Overture: An Overview of Municipal Bonds

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CDIAC

**CALIFORNIA
DEBT AND
INVESTMENT
ADVISORY
COMMISSION**

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Why Do Municipalities Issue Bonds?

- State and local governments issue municipal bonds to pay for relatively large infrastructure projects
- Municipal bonds are a common and popular tool, with over \$433 billion of U.S. municipal bonds issued in 2010, \$295 billion in 2011
- Key Question: Should an issuer use Pay-As-You-Go funds or issue bonds to pay for a new infrastructure project?
 - Can an issuer afford to pay 100% of a project upfront and:
 - Maintain healthy reserves
 - Effectively manage rate/tax increases
 - Would an issuer need/prefer to finance multiple projects instead of just one project at the same time and with the same amount of revenues?
 - “Intergenerational equity” – if an issuer wants all the people that benefit from the project over time to pay for it, it would issue bonds
- Long-term bonds should not be used to finance operations or maintenance (though occasionally are)

Municipal Bonds Have a Long and Noble History in the U.S.

- Financed many iconic governmental projects in California and across the country



Bay Bridge



CA State Water Project



K-12 Schools



California State University



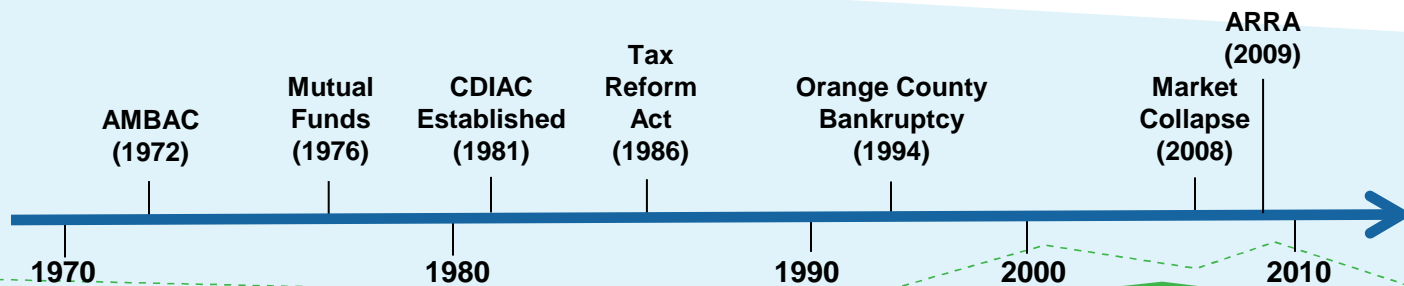
San Francisco International Airport

What are Municipal Bonds?

- Municipal governments that issue bonds receive a cash payment at the time of issuance in exchange for a promise to repay investors principal plus interest over time
 - Bonds to finance long-term municipal infrastructure projects are typically repaid over 20-40 years
- Rather than getting a loan from one institution (e.g. a commercial bank), municipal bonds are sold in the public capital markets to many investors
 - Large loan is broken up into pieces as small as \$5,000
 - Issue is divided into different maturities and interest rates (i.e. 1-30 year maturities) to appeal to various investor types
 - Accessing the capital markets generally results in getting the lowest cost of capital for projects of size
- Municipal bonds are a type of security- “Stocks & Bonds”
 - Industry is “self-regulated” by the MSRB (Municipal Securities Rulemaking Board), subject to SEC review and approval of rules
 - Federal Dodd-Frank reforms of 2010 are changing the rules and roles of municipal market participants

History of the Market

- Municipal debt predates corporate debt by centuries
 - First U.S. municipal bond was issued in 1812 for the Erie Canal
 - Explosion of railroad debt, followed by the panic of 1873 and subsequent defaults, gave rise to a number of surviving institutions: e.g., state legal debt limits, bond counsel and rating agencies
- Tax Laws, Product Innovations and Technology Change Muniland
 - Bond Insurance: insurance penetration reached 57% in 2005, fell to 6% by 2011
 - Computers (First PC created in 1975, but not widely available in offices for ten years)
 - The 1980's saw the creation of variable rate bonds (to manage soaring interest rates) and federal tax law revisions (to manage perceived abuses)



How are Bonds Issued?

- Finance team works together to create a marketable and credit-worthy financing structure
- Legal documentation outlines the (limited) rights of the bondholders and the mechanics for repayment; provides disclosure information on the credit to potential investors
- Issuer offers its bonds to investors through investment banks (broker-dealers)

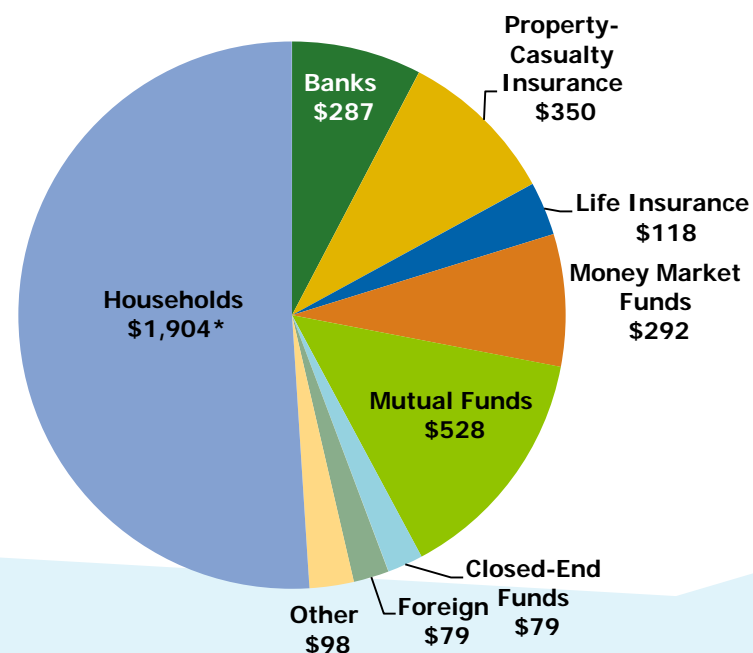


- Broker-dealers manage the sales process
 - Make an offer to the issuer to buy the bonds at certain prices on a maturity-by-maturity basis based on investor demand
 - If less than 100% of bonds are sold, broker-dealers typically underwrite a portion of the bonds
- Other key players include financial advisors, bond and disclosure counsel, trustees, and rating agencies

Who Buys Municipal Bonds

- Know thy lenders
 - Most bonds are purchased by “professional buyers”
 - Mutual funds
 - Professional money managers
 - Trusts
 - Insurance companies
 - Individual investors
 - Direct retail (“mom and pop”)
 - Professional retail (Separately Managed Accounts or “SMAs”)
 - Indirect retail (mutual funds)

Holders of Muni Debt
 Q3 2011
 \$ Billions



*Includes households, domestic hedge funds, private equity funds, and personal trusts
Source: Federal Reserve “Flow of Funds”

What is Special about Municipal Bonds?

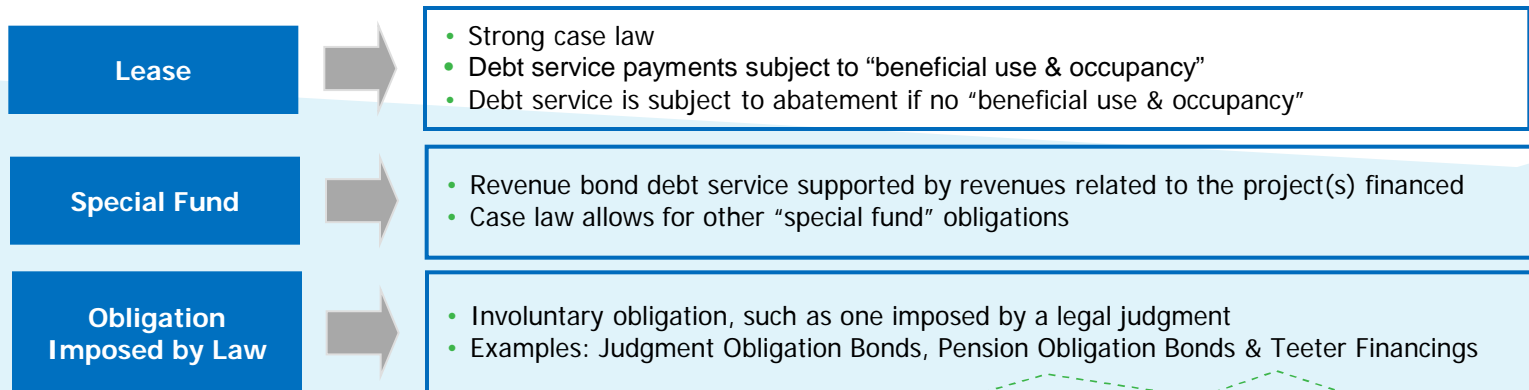
- Interest on most municipal bonds is tax-exempt at the Federal and State level
 - Tax-exempt investors accept lower rates than available on taxable investments to achieve the same after-tax return
 - Tax-exempt interest is more valuable to individuals in higher tax brackets
 - Tax-exempt interest rates are also lower in states with high income tax rates, all else being equal
 - Typically, tax-exempt bonds carry lower interest rates than taxable bonds of similar credit quality
- As an alternative, in 2009, under the American Reinvestment and Recovery Act (“ARRA”), Build America Bonds (“BABs”) were authorized
 - Provided municipal bond issuers a 35% interest rate subsidy on taxable bonds
 - Broadened investor base for muni bonds to include taxable investors
 - Over \$181 billion issued since program inception before it expired on 12/31/2010
- Bond counsel opines at closing that all conditions have been met to qualify for tax-exemption or as BABs

Can the State or a Local Government Just Issue Bonds if it Feels Like It?

- NO, there are state constitutional debt limits in all states
- Unless an issuer meets an exception to the State Constitutional debt limitation, it must get voter approval to issue bonds

Government Level	State of California Voter Approval Requirement
State	50% - General Fund secured
Local	55% - Property Tax secured – School Districts 2/3 rd s - Property Tax secured – Other

- Three major exceptions to the State's debt limitations have been recognized by California Courts and are commonly used



What Resources are Used to Repay Bonds?

	Source of Repayment	Type of Bond
Dedicated Taxes	<ul style="list-style-type: none"> Unlimited ad valorem property tax Voter-approved additional sales tax Parcel tax Property tax increment 	<ul style="list-style-type: none"> General Obligation Bonds (GOs) Dedicated tax revenue bonds Mello-Roos bonds Redevelopment tax allocation bonds
General Fund Obligations	<ul style="list-style-type: none"> Annually appropriated lease payments Required pension contributions General fund payments 	<ul style="list-style-type: none"> Lease revenue bonds Pension obligation bonds State-level GOs
Special Fund Bonds	<ul style="list-style-type: none"> Water and other utility fees Special benefit assessments 	<ul style="list-style-type: none"> Enterprise revenue bonds Assessment bonds
Non-Governmental Activities	<ul style="list-style-type: none"> Loan repayments from non-profit corporations like hospitals and universities Loan repayments from "exempt" business 	<ul style="list-style-type: none"> 501(c)3 revenue bonds Private Activity bonds

Bonds and Other Bond-like Securities Contain Promises (Covenants) Made to Bond Buyers (Lenders)

- Promise to repay principal and interest
- Promise to take actions necessary to repay the bonds; for example:
 - Levy a property tax for local government general obligation bonds
 - Budget and appropriate lease payments for lease revenue bonds or COPs
 - Set rates to pay operating costs, debt service, and usually a margin of safety for revenue bonds
- Promise to maintain tax-exemption (if tax-exempt)
 - Promise to use proceeds on non-private activities
 - Expectations regarding expenditure within three years
 - Rebate of arbitrage (any profit on investment of proceeds)
- Other promises to protect investors may include
 - Maintenance of system
 - Limitations on additional debt
 - Maintain insurance on assets
 - Annual audits
 - Continuing disclosure

How are Bond Proceeds Used?

- **New Money**
 - Capital projects
 - Costs of bond issuance
 - Debt service reserve fund equal to up to one-year's debt service
 - Pre-funded or "capitalized" interest
- **Refundings**
 - Tax-exempt municipal bonds are usually callable; i.e., can be redeemed by an issuer prior to maturity (often after ten years)
 - Call option may increase initial interest rates
 - Refunding bonds are usually issued at lower rates to generate cash-flow and present-value savings
 - Non-economic refundings done less frequently to change the covenants in the legal documents or to restructure debt service
- **Working Capital**
 - Tax and Revenue Anticipation Notes are for annual cash-flow borrowings
 - Long-term working capital (deficit borrowings)
 - Tricky tax laws govern what can be issued as tax-exempt bonds
- **Interim Finance**
 - Bond anticipation notes or commercial paper are sold in anticipation of bond issue

Summary

- U.S. municipal bond market is large and well-established
- Municipal bonds are a useful and cost-effective method to raise capital for infrastructure projects
- As with any debt, it is important to make sure that both the debt service as well as the operating costs are affordable
- Hire a strong team of qualified financial professionals to assist you in developing a credit-worthy and cost-effective structure
- The role of the public finance staff:
 - Ask questions
 - Understand the tradeoffs between costs, risks and opportunities so you, your management and your governing board can make informed decisions
 - Ask even more questions: as the issuer, there are no stupid questions



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