### Kern County Superintendent of Schools Understanding and Managing Debt Workshop

#### **Bond "Flavor of the Month"**





Presented by Lori Raineri November 6, 2014

# **Two Ideas To Discuss**

#### Refundings

- Advance vs. Current
- Crossover
- Forward
- Synthetic
- **Tender Offers**

Both are methods of replacing outstanding bonds with new bonds.

This involves <u>buying</u> or calling outstanding bonds and <u>selling</u> new bonds to generate the funds to do so.

## **Buying and Selling**



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# **A Common Securities Violation**

- Churning
  - "Churning occurs when a broker engages in excessive buying and selling of securities in a customer's account chiefly to generate commissions that benefit the broker."
  - » U.S. Securities and Exchange Commission
    Why is churning wrong?



- » Goal of an investment account is to earn a profit.
  - Profit can be represented by growth in value or income distribution
  - Churning can:
    - -Reduce gains (or cause losses) due to commissions (transactions costs)
    - -Nominal profits and losses are quantified by the alternative



## **Churning as Defined by the MSRB**

An improper practice in which an investment professional effects an excessive number of securities transactions chiefly for the purpose of maximizing the income (in commissions, sales credits or mark-ups) derived from the customer's account for the investment professional's benefit."

» Municipal Securities Rulemaking Board



# Inappropriate Refunding . . .

- . . . can be a form of churning
  - **Refunding is buying and selling** 
    - Buying back outstanding bonds and selling new bonds
    - Most refundings are decided on the basis that savings can be achieved without comparison to alternatives
      - » i.e., the particular buy and sell (or "trades") will produce a savings, though not necessarily that these are the optimal trades



### **Rates Decrease & Refinancings Increase**



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# **Refinancings: A Growing Business**



Figure 1. State and local government annual aggregate bond issuance, new money and refunding Source: The Bond Buyer.

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# **Example Yield Curve for a G.O. Bond**

Maturity Date September 1		Principal Amount	Coupon Interest Rate	Reoffering Price or Yield	Maturity Date September 1	Principal Amount	Coupon Interest Rate	Reoffering Price or Yield
2007	\$	415.000.00	10.000 %	3.000 %				
2008	Ŧ	445.000.00	10.000	3.100	2019	\$ 785.000.00	4.000 %	3.950 %
2009		475.000.00	10.000	3.200	2020	820,000,00	4.000	4.000
2010		515,000.00	10.000	3.300	2021	855,000.00	4.000	4.000
2011		545,000.00	3.000	3.000	2022	895,000.00	4.000	4.000
2012		580,000.00	3.125	3.125	2023	935,000.00	4.125	4.125
2013		615,000.00	3.250	3.250	2024	980,000.00	4.200	4.200
2014		640,000.00	3.375	3.375	2025	1,030,000.00	4.250	4.250
2015		665,000.00	3.500	3.500	2026	1,080,000.00	4.250	4.250
2016		690,000.00	4.000	3.650	2027	1,130,000.00	4.300	4.300
2017		720,000.00	4.000	3.750	2028	1,190,000.00	4.375	4.375
2018		750,000.00	4.000	3.850	2029	1,245,000.00	4.375	4.375

After a year, some of the bonds have already matured

- The bonds that have matured usually have lower interest rates (lower on the yield curve)
- The bonds that are still outstanding, and can be refinanced, usually have higher interest rates
- The average callable coupon increases over time, even though rates were fixed at the time of issuance

# **Why Refinancing Saves Money**

- A refinancing usually has a shorter life than the bonds that were originally issued
  - If 10 years have passed, the original final maturity of 25 years is now 15 years away
    - » The refinancing places the maximum term earlier on the yield curve which means lower overall interest rates
    - » Due to negative arbitrage in a defeasance escrow
      - Higher interest rates can improve savings
      - Less time in escrow, or waiting, can improve savings

Eventually a refi. will likely produce savings

-So, every transaction can be done twice, or more

» It is important to be thoughtful about reserving call options in an original issue



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### **Professionals Make the Math Work**



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## **Current Bond Flavors To Be Wary Of**

#### Advance Refundings

- Sensitivity and volatility analyses are needed to avoid acting too early
- Investing *and* borrowing is involved so increasing interest rates can be beneficial - no need to rush *just* because interest rates are low now
- Don't use the one "advance refunding" option on the wrong transaction
  - » Particularly to be considered with partial refundings
    - Further, costs for multiple transactions need to be considered

**Tender Offers** 

Detroit Shows Wall Street Never Loses on Bord Cutions, Minni Candit The bond market is not offering a bargain Bad Swaps: Muni Credit

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## **Framework for Prudent Refinancing\***

- **Intergenerational equity** 
  - the incidence of a debt burden among different generations of taxpayers, both present and future
- **Economic efficiency** 
  - the opportunity cost of refinancing the debt later at a greater savings amount ("time value option")
- Measurability/certainty
  - Certainty refers to the likelihood that a government will have to forgo future resources
  - Measurability assesses the feasibility of valuing the amount of such foregone resources
- Management flexibility
  - the degree that a refinancing has constrained or freed a government entity's future financial decision making

\*From "Not All Refinancings Are Created Equal: A Framework for Assessing State and Local Government Debt Refinancing Measures" by Martin J. Luby

# **Portfolio Perspective**

- Think about outstanding debt as a portfolio of liabilities for which we want to reduce the interest and perhaps the term
- Refinancing involves buying and selling bonds, and therefore affects the portfolio value
  - Portfolio performance is not evaluated according to whether today's value is better than yesterday's
    - » Portfolio performance is evaluated according to whether it was managed well compared to a benchmark, which represents the alternative management decisions which could have been made



### **Expectations Are Relative**



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