

# BESSEMER TRUST

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ENHANCING PRIVATE WEALTH FOR GENERATIONS<sup>SM</sup>

**2008 ABA Joint Fall Meeting of the Section of Taxation and the Section of  
Real Property, Trust and Estate Law**

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**The RPTE Insurance and Financial Planning Committee Presents:**

**Integrating Estate Planning With Investment Strategies  
Using A Combination of Rolling GRATS and Intra-  
Family Loans for Effective Wealth Transfers**

**September 13, 2008**

**San Francisco, CA**

# Integrating Estate Planning With Investment Strategies

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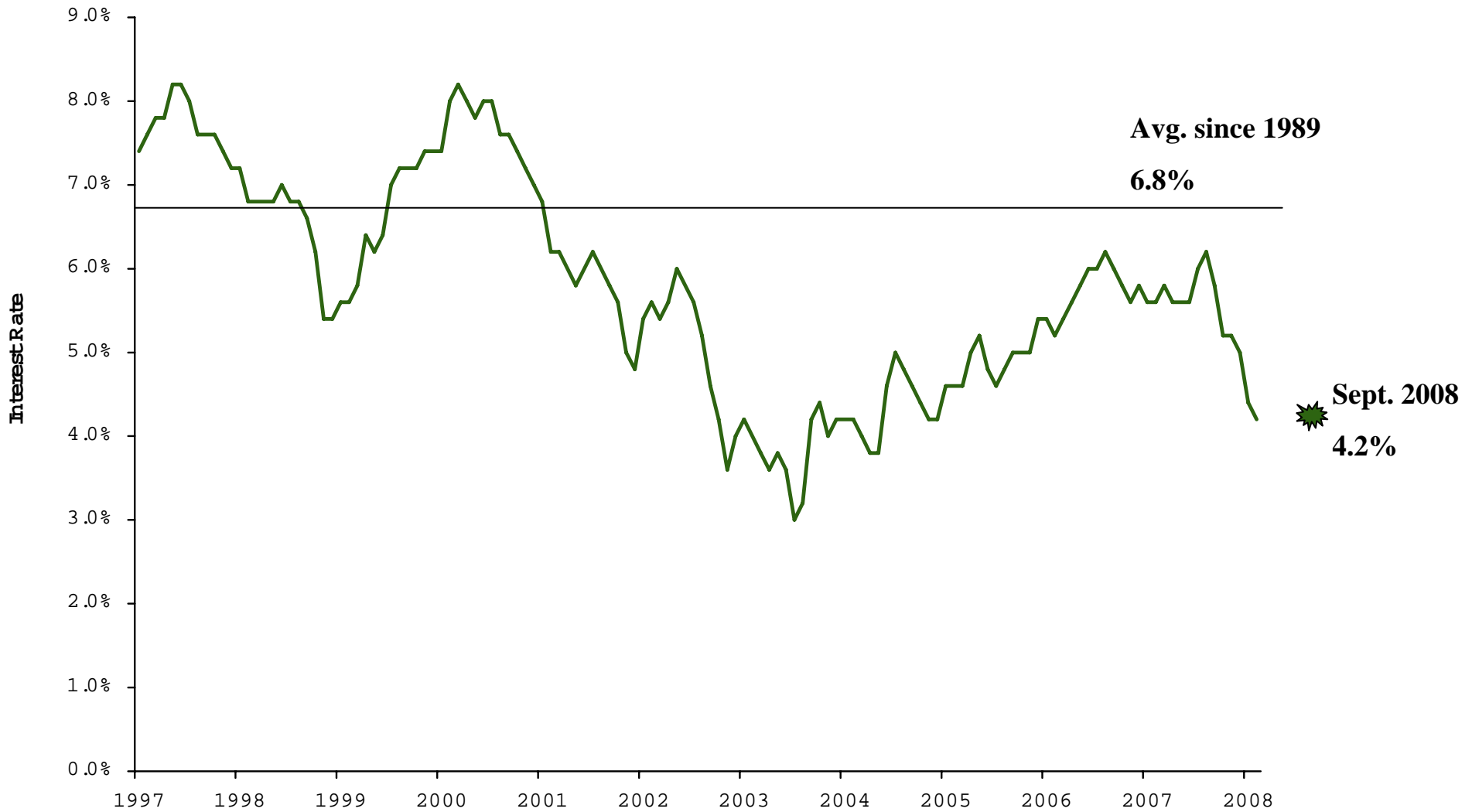
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# §7520 Rate – Historical Context



Source: Internal Revenue Service

# **Integrating Estate Planning With Investment Strategies**

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## **Low Rate Environment Suggests**

- Planning Strategies, including GRATs and Family Loans
- Portfolio Assets are “In Play”

**Thus, today, we will focus on the next frontier for enhanced wealth transfer planning – integrating estate planning and investment strategies.**

**I. Portfolio GRATs**

**II. Family Loans**

**III. Combined Planning**

# I. GRATs - Does the §7520 Rate Really Matter?

## High and Low Section §7520 Rates By Year

Y r	'89	'90	'91	'92	'93	'94	'95	'96	'97	'98	'99	'00	'01	'02	'03	'04	'05	'06	'07
↑	11.6	11	9.8	8.6	7.7	9.4	9.6	8.2	8.2	7.2	7.4	8.2	6.8	6.0	4.2	5.0	5.4	6.2	6.2
↓	9.6	9.6	8.6	6.8	6.0	6.4	7.2	6.6	7.2	5.4	5.6	7.0	4.8	3.6	3.0	3.8	4.6	5.2	5.0

**2008:**

September      4.2%

2008 High      4.3% (Jan.)

2008 Low      3.2% (May)

## Impact of the §7520 Rate is Material

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**Example: A 2-year GRAT with \$2 million of portfolio assets. Assuming the GRAT is nearly “zeroed out,” what amount passes to the remainder beneficiaries transfer-tax free if the rate of return on the investments is 8%?**

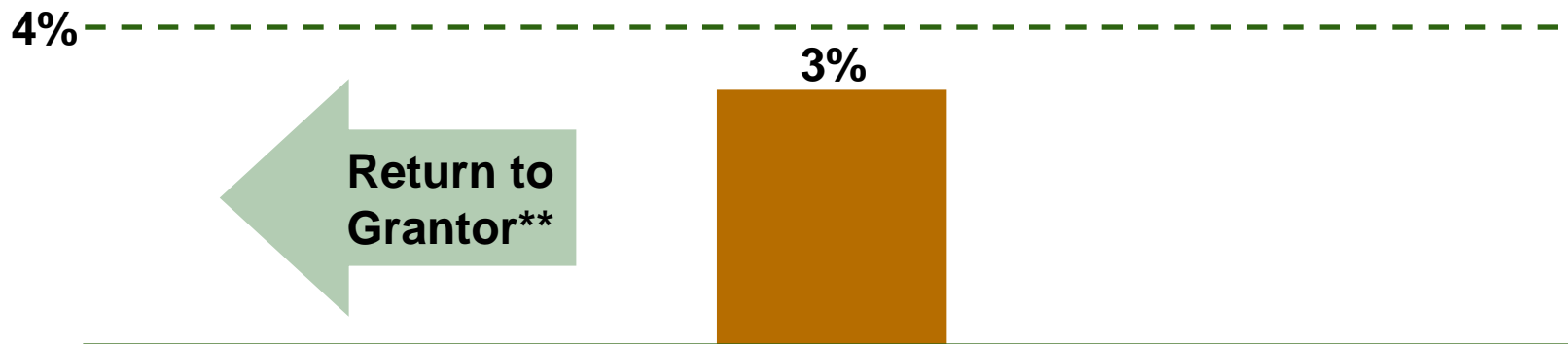
<b>§7520 Rate</b>	<b>Remainder to Beneficiaries</b>
<b>3.8% (June 2008)</b>	<b>\$135,446.17</b>
<b>6.2% (August 2007)</b>	<b>\$59,399.41</b>

# Understand What Makes the Technique Effective

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## “Hypothetical” One-year 4% GRAT with 3% Return\*

All value returns to grantor



\* The hypothetical examples included in this presentation are for illustration only and are not projections of future returns, tax rates or exemption amounts.

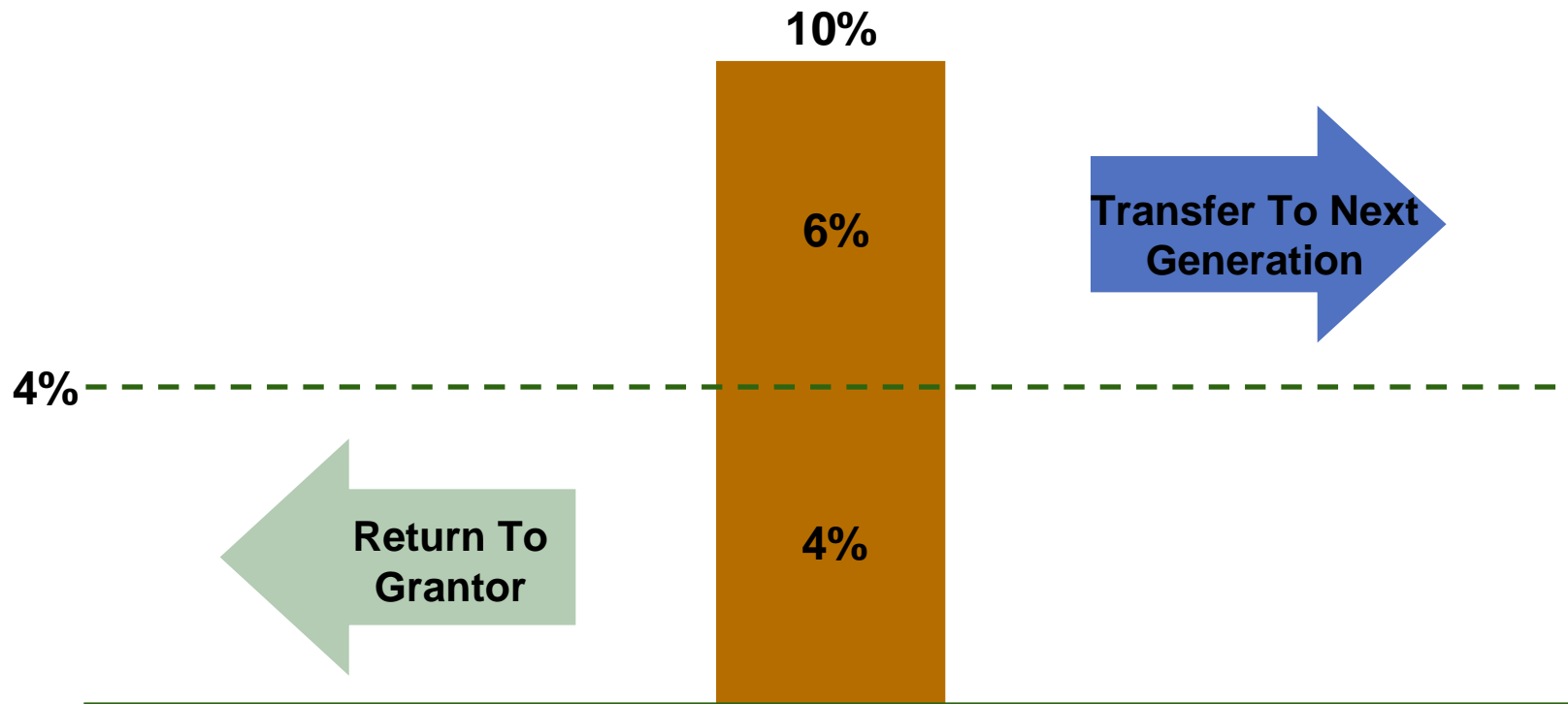
\*\* The hypothetical examples included in this presentation assume an Internal Revenue Code §7520 rate of 4.0%.



# Raise the “Return” Bridge...

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## “Hypothetical” One-year 4%\* GRAT with 10% Return\*\*



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## Or, Lower the “Annuity” Water.

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Lower the investment return “hurdle” through discounting. The extent of the discount has a concomitant reduction in the “interest” paid back to the Grantor of a nearly “zeroed out” GRAT.

<b>Full Value GRAT</b>	<b>35% Discounted GRAT</b>
<b>\$622,887</b> <b>“Interest” to Grantor</b>	<b>\$404,877</b> <b>“Interest” to Grantor</b>
<b>4.0%</b> <b>Effective annualized rate</b>	<b>2.6%</b> <b>Effective annualized rate</b>

# Integrating Estate Planning With Investment Strategies

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**Use of Portfolio Assets Surfaces Two Areas to Explore:**

## **1. Portfolio GRAT Architecture**

- Term – Optimal Maturity
- Annuity – Flat versus Increasing

## **2. Portfolio GRAT Engineering**

- Asset Selection – Diversification Anathema
- Substitution Power – Lock-in or Bailout
- Derivatives – Horsepower Fueled by Complexity

## Portfolio GRAT Architecture 101 - Optimal Maturity

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**Myth - Longer term is better because it “locks-in” the AFR and keeps the annuity low – just like a fixed-rate mortgage.**

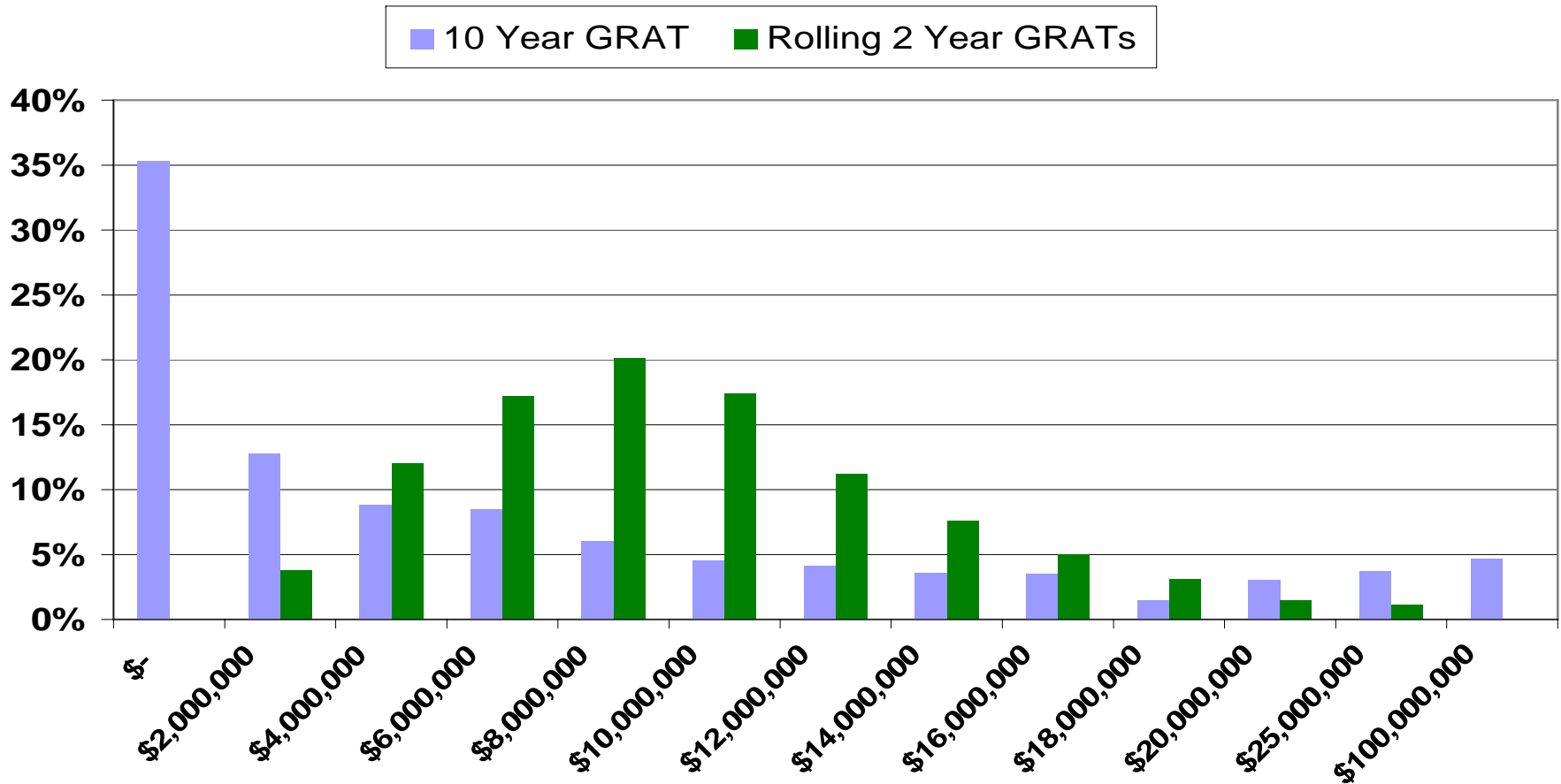
### **Busted!**

- For a typically volatile portfolio asset, despite a rising 7520 rate and ignoring actuarial probability of untimely death, a series of short term GRATs statistically will outperform one long term GRAT.
- Flat, high-income producing assets may still benefit from longer term:
  - Example - the case of the “Horse GRAT”.
  - But these situations are atypical and other strategies may be better.

# Portfolio GRAT Architecture 101 - Optimal Maturity

Return = 8%, Risk = 20%, 7520 rate = 3.6%

## Value Shifted after 10 Years



## Portfolio GRAT Architecture 201 – Flat versus Increasing Annuity\*

Year	Beginning Portfolio Value	IRS Assumed Return**	Required % Annuity	Required \$ Annuity	Portfolio Value
1	\$10,000,000	\$400,000	22.46%	\$2,246,271	\$8,153,729
2	\$8,153,729	\$326,149	22.46%	\$2,246,271	\$6,233,607
3	\$6,233,607	\$249,344	22.46%	\$2,246,271	\$4,236,680
4	\$4,236,680	\$169,467	22.46%	\$2,246,271	\$2,159,876
5	\$2,159,876	\$86,395	22.46%	\$2,246,271	\$0

**Value Transferred if Portfolio Return 4%**  
**\$0**

**Value Transferred if Portfolio Return 10%**      **\$2,391,390**

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# Portfolio GRAT Architecture 201 – Flat versus Increasing Annuity\*

Year	Beginning Portfolio Value	IRS Assumed Return**	Required % Annuity	Required \$ Annuity	Portfolio Value
1	\$10,000,000	\$400,000	15.31%	\$1,530,782	\$8,869,218
2	\$8,869,218	\$354,769	18.37%	\$1,836,938	\$7,387,049
3	\$7,387,049	\$295,482	22.04%	\$2,204,326	\$5,478,206
4	\$5,478,206	\$219,128	26.45%	\$2,645,191	\$3,052,143
5	\$3,052,143	\$122,086	31.74%	\$3,174,229	\$0

**Value Transferred if Portfolio Return 4%**  
**\$0**

**Value Transferred if Portfolio Return 10%**      **\$2,667,746**

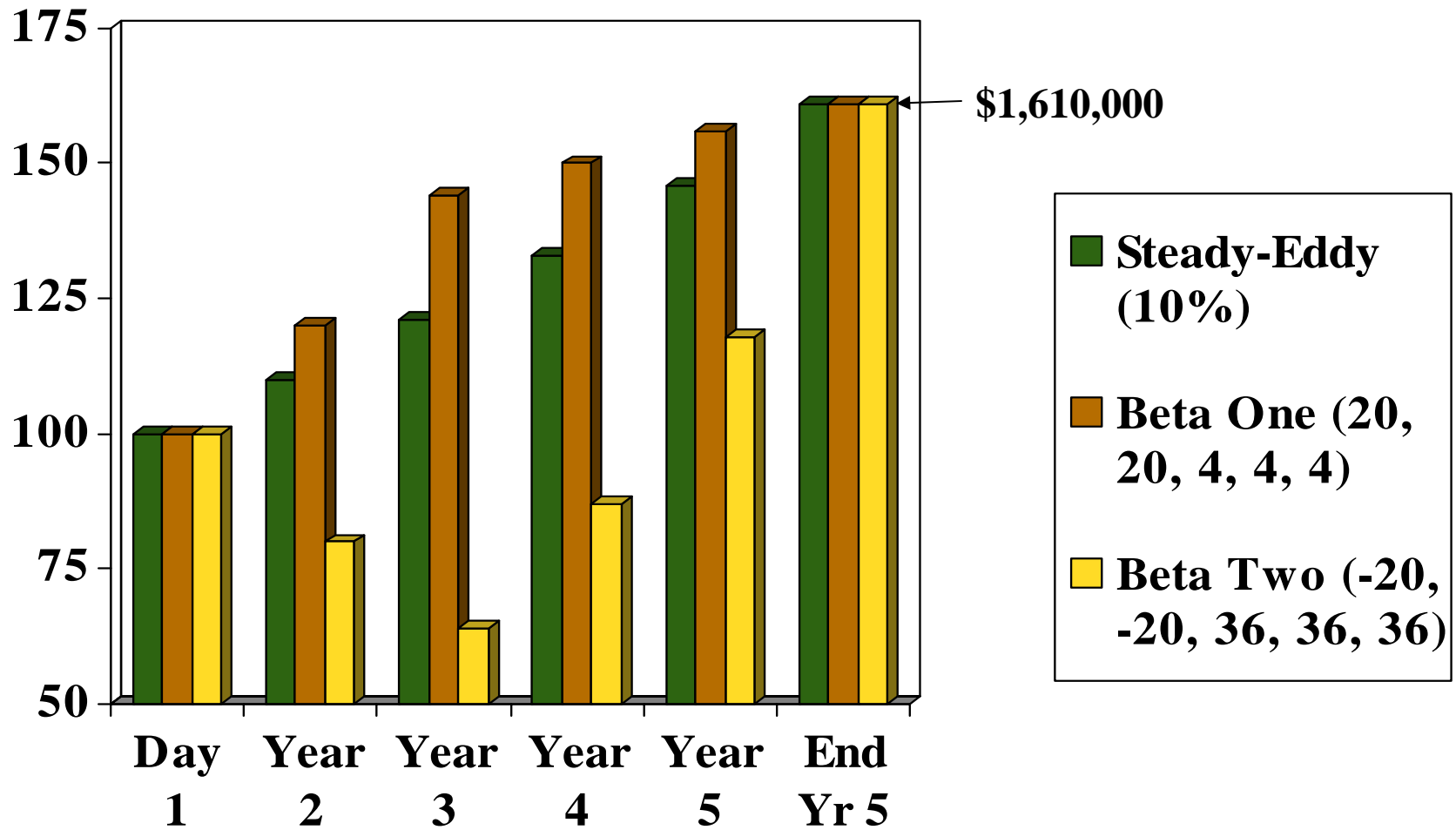
**An additional transfer of over \$275,000, or 11.6%!**

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# Portfolio GRAT Architecture 201 – Flat versus Increasing Annuity

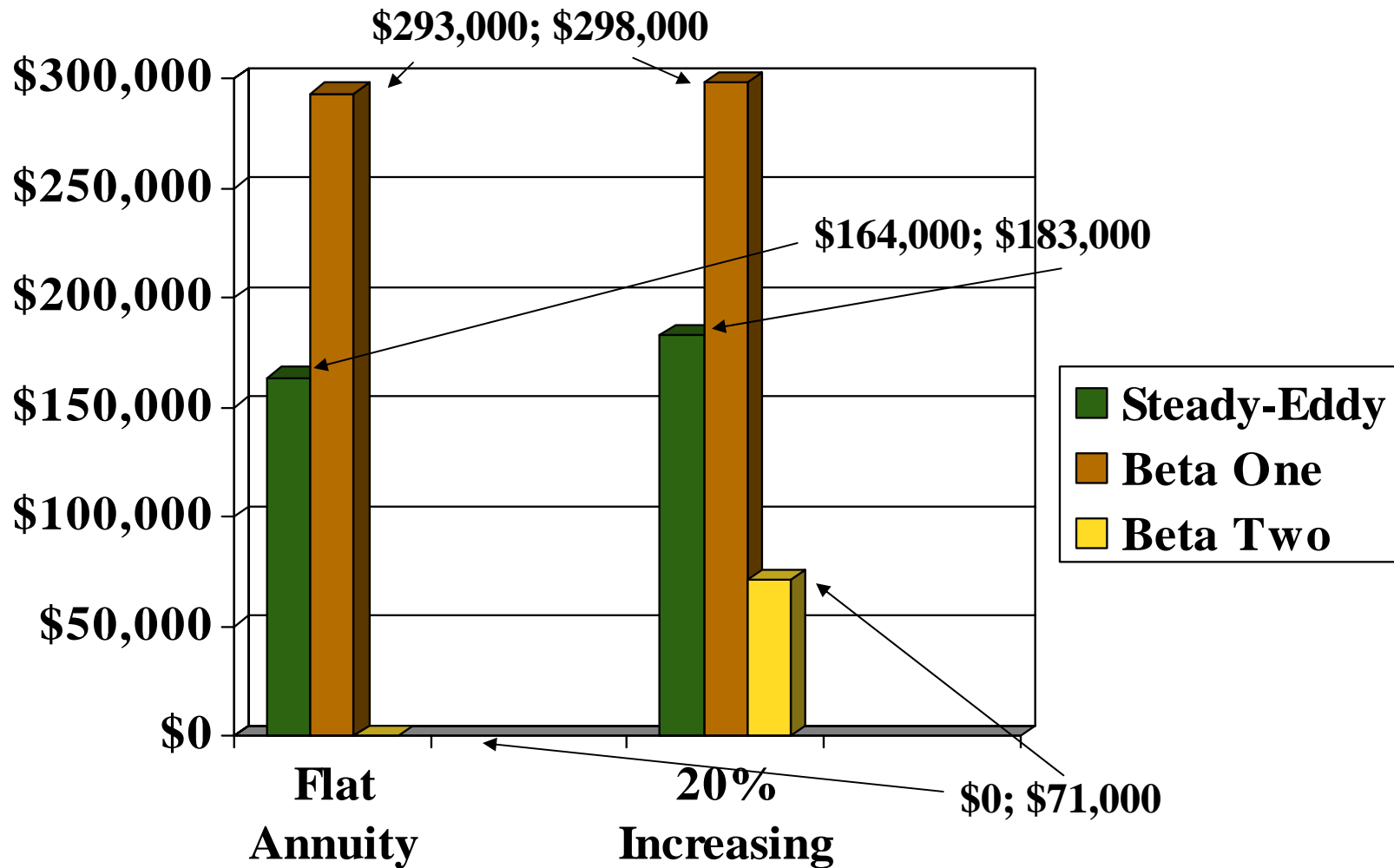
## 3 Sample Growth Patterns of \$1,000,000 Investments





# Portfolio GRAT Architecture 201 – Flat versus Increasing Annuity

## Final Results:



# Portfolio GRAT Engineering 101 – Asset Selection\*

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Let's consider a two stock portfolio

Company A – 10,000 shares – \$50 – \$5,000,000

Company B – 10,000 shares – \$50 – \$5,000,000

\$10,000,000

Let's recall that our IRS hurdle rate is 4%\*\*

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# Portfolio GRAT Engineering 101 - Assets Selection\*

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	<u>Return</u>	<u>Ending Value</u>	
Company A	– +20%	\$60	6,000,000
Company B	– -20%	\$40	<u>4,000,000</u>
			10,000,000
			<u>Minimum annuity to grantor**10,400,000</u>
			Amount transferred to next generation – 0 –

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# Portfolio GRAT Engineering 101 - Splitting “Volatile” Assets Into Multiple GRATs\*

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## GRAT 1:

<b>Company A</b>	<b>+20%</b>	<b>\$60</b>	<b>6,000,000</b>
		<b>Minimum annuity to grantor</b>	<b>5,200,000</b>
		<b>Amount transferred</b>	<b>800,000</b>

## GRAT 2:

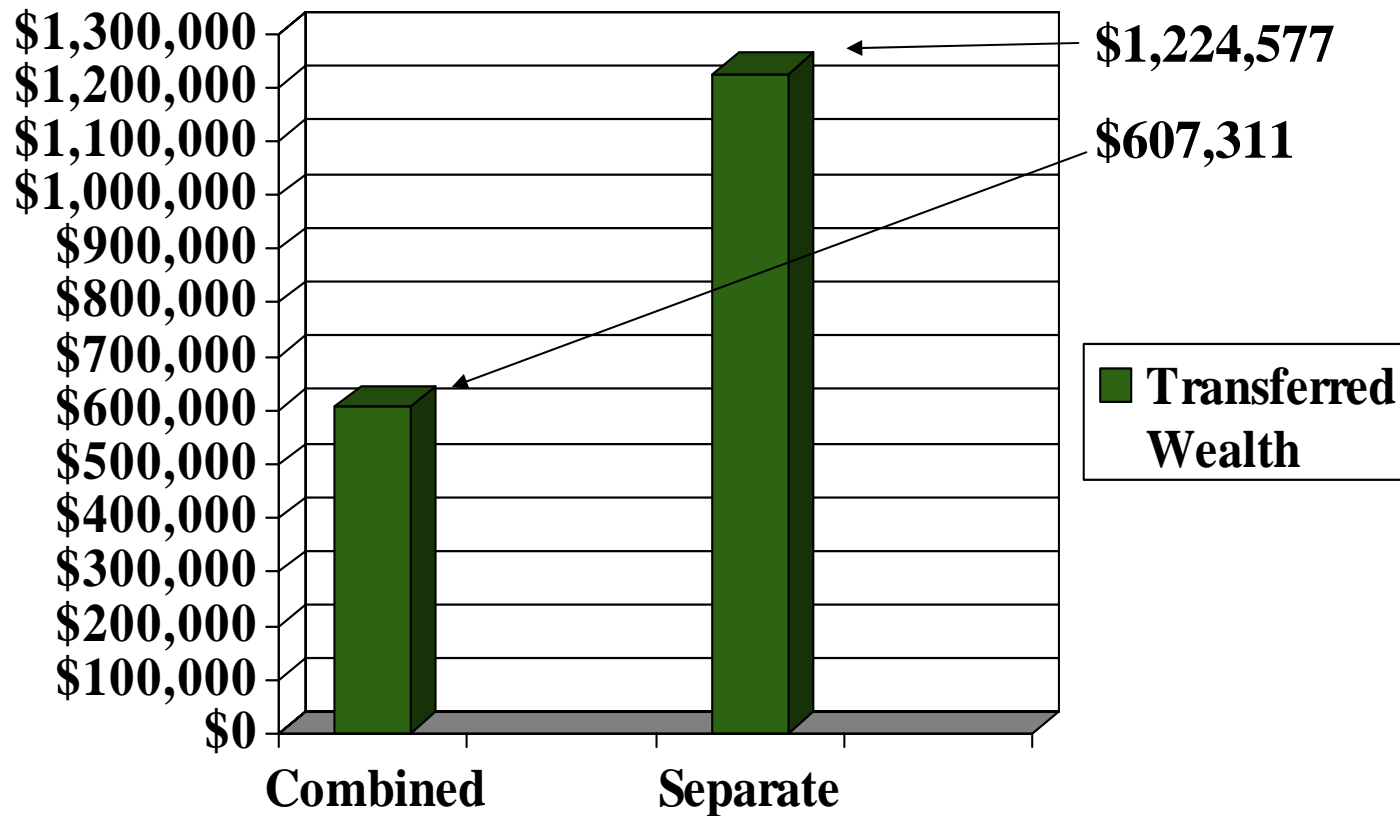
<b>Company B</b>	<b>-20%</b>	<b>\$40</b>	<b>4,000,000</b>
		<b>Minimum annuity to grantor</b>	<b>5,200,000</b>
		<b>Amount transferred</b>	<b>- 0 -</b>
		<b>Total Transferred</b>	<b>800,000</b>

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# Portfolio GRAT Engineering 101 - Comparison of Combined versus Separate GRATs One 2-Year; One 3-Year (including 10% growth)

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# Portfolio GRAT Engineering 101 - Diversification Anathema

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## Portfolio GRAT Drafting Challenge:

- Rational investors diversify to optimize their portfolios, as markets do not reward for financial risks that can be managed (Modern Portfolio Theory as embraced by Prudent Investor Act)
  - Company specific risk
    - Managed by exposure among securities in the same asset class
    - Think Enron
  - Market risk
    - Managed by exposure among several uncorrelated asset classes or sectors
    - Think “tech bubble”
- Draft trust to facilitate trustee mission:
  - Right to retain/hold concentrated position, and
  - Exonerate from duty to diversify.

# Portfolio GRAT Engineer 201 – Active Management via Substitution Power

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## Reversion To Mean

- Appears to violate the definition of independent events.
- Reflects the fact that the probability function of any random variable, by definition, is nonnegative over every interval and integrates to one over the interval:

$$\int_{\mu-i}^{\mu+i} P(x) dx > \int_{\mu-j}^{\mu+j} P(x) dx$$

- This statistical phenomenon states that the greater the deviation of a random variate from its mean, the greater the probability that the next measured variate will deviate less far.
- Example: Shaquille O’Neal, 52.4% NBA career free throw average, shoots and makes 1 free throw a day for 99 consecutive days. Does he have a better than 52.4% chance of making the shot on day 100?
- Better chance than Rick Barry (90% NBA career FT avg.) assuming he missed the shot on each of the 99 days?

## **Portfolio GRAT Engineer 201 – Active Management via Substitution Power**

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### **Lock-in Gains:**

**When assets in GRAT appreciate significantly and sooner than expected, anticipate Reversion To Mean:**

- **Grantor exercise substitution right; invest replacement assets to keep pace with §7520 rate.**
- **Grant re-GRAT's substituted assets to transfer future appreciation.**



# Portfolio GRAT Engineer 201 – Active Management via Substitution Power

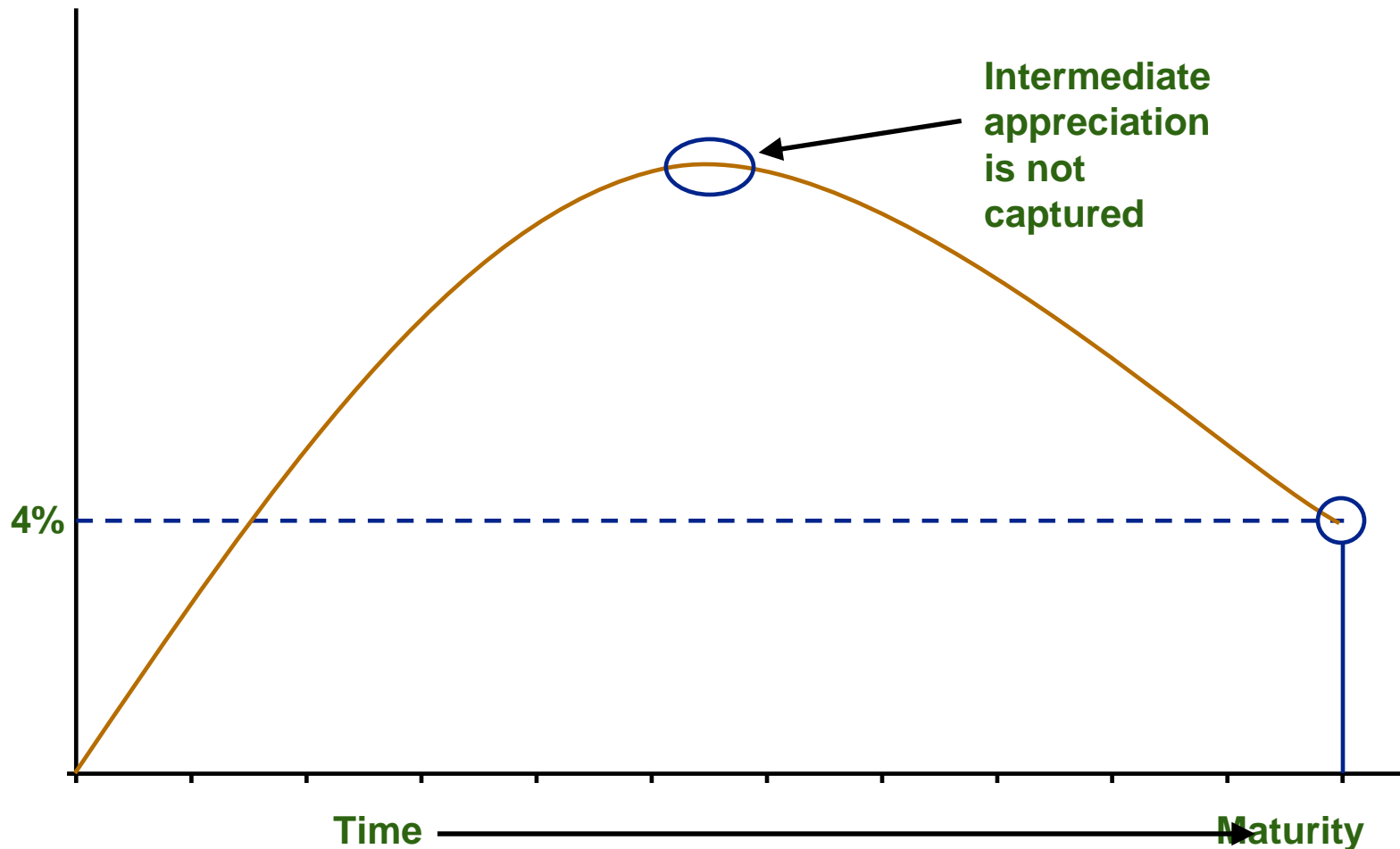
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## Cut the Losses; Bet on the Future

- Grantor exercises substitution right when stocks dip
- Re-GRAT depressed value assets with a subsequently lower “hurdle”, position for enhanced positive wealth transfer as assets revert to mean.
- Avoid waiting until end of term.
- Avoid diluting future appreciation (as assets revert to mean) with “catch-up” from earlier losses.
- It is all in how you look at it, so are turbulent financial markets a challenge or opportunity?

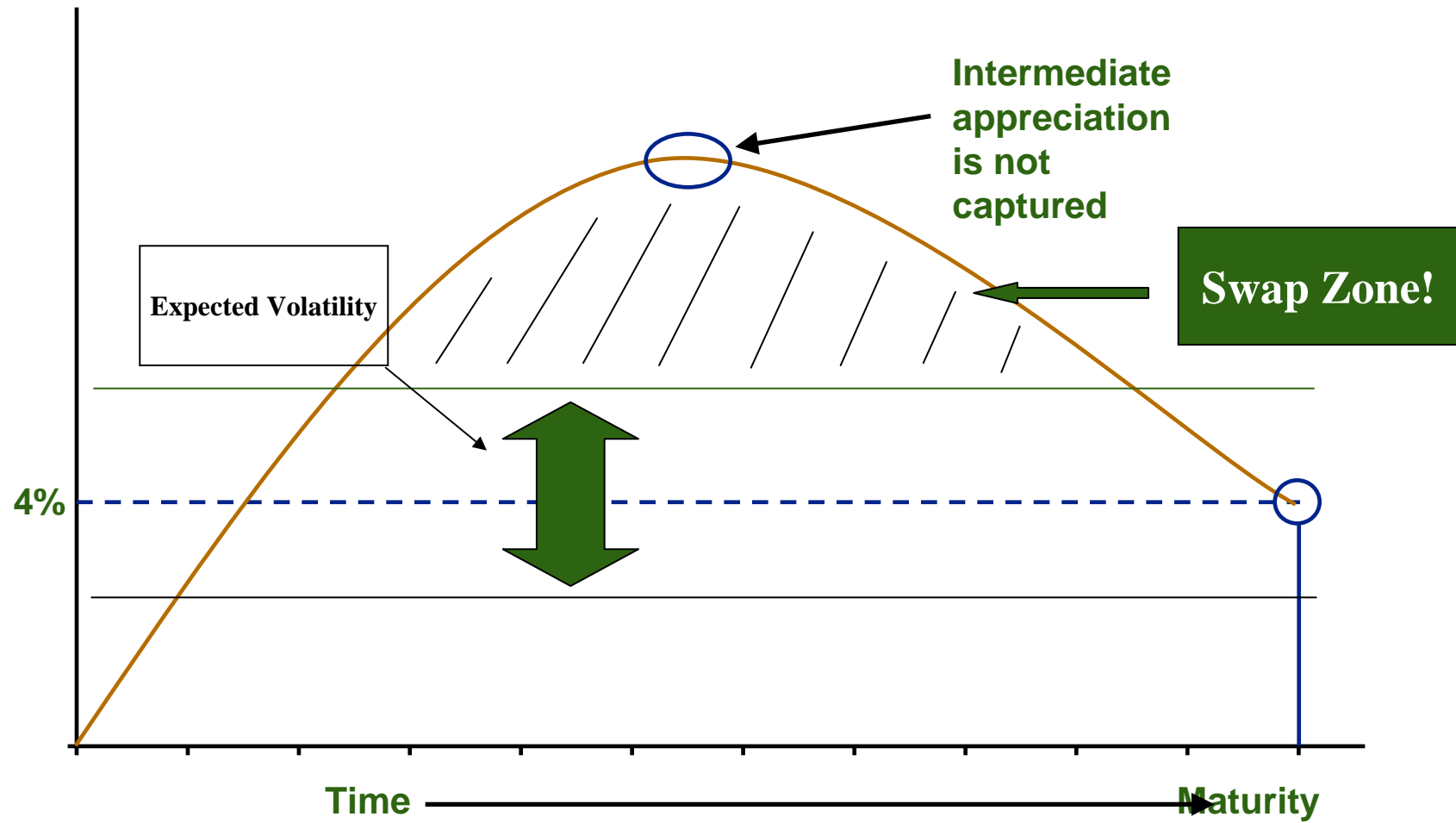
# Portfolio GRAT Engineer 201 – Active Management via Substitution Power

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# Portfolio GRAT Engineer 201 – Active Management via Substitution Power



# **Portfolio GRAT Engineering Grad School - Derivatives**

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**Generally more effective with larger standard deviation (more volatile) assets due to friction costs and probability of adding value.**

## **Public versus Private:**

- Consider private hedge transactions to minimize costs.**
- When appropriate, use grantor's spouse to avoid reciprocal trust issues and income taxation (Section 1041 sales between spouse tax free; PLRs 8644012 & 20012007 sales between grantor trust and spouse tax free).**

# Portfolio GRAT Engineering Grad School - Derivatives

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**GRAT Derivative Strategy designed to (1) assure some value will transfer or (2) cap wealth transferred.**

**Grantor's spouse purchases an out-of-the-money option using Black Scholes approach, or other binomial model. Rev. Proc. 98-34 permits private options.**

**Example: If stock worth \$10, price of a \$12.50 option, depending on volatility, approximately \$3.29.**

- **If stock goes above \$12.50 at end GRAT term, remainder beneficiaries receive benefit of 25% return plus 32.9% option return, less §7520. Balance of upside reverts to grantor's spouse.**
- **If stock does not exceed \$12.50, remainder beneficiaries receive actual growth plus option purchase, less §7520 (e.g., if stock remains at \$10, GRAT has \$13.29/share).**

# Portfolio GRAT Engineering Grad School - Derivatives

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**GRAT Derivative Strategy designed to double gain up to 20% on assets with modest growth expectations during GRAT term.**

- 1. Assume GRAT owns 100 shares trading at \$100 per share. GRAT purchases at-the-money call option on 100 shares at \$100, providing GRAT right to future appreciation.**
- 2. GRAT sells an out-of-the-money call option on 200 shares at \$120 per share, assuming cost of purchased call option equals proceeds on sold option. Use strike price or number of shares so net no cost to GRAT.**

**Result: GRAT receives double on growth from \$100 to \$120, and nothing on growth above \$120.**

## II. Family Loans

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§1274(d) rates for September, with annual compounding:

Loan Duration:	Less than 3 Years	3 to 9 Years	More Than 9 Years
Rate:	2.38%	3.46%	4.58%

Typically, enter into family or other low interest loan in one of two circumstances:

1. **NEED** - When circumstances require wealth and gift tax is too burdensome or GRATs/other techniques take too long.
2. **OPPORTUNITY** – As an arbitrage strategy. Play the spread between the rate of borrowing and the hoped-for higher rate of return the borrower can achieve.

# Family Loans

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## **More on the arbitrage strategy (opportunity):**

- **Lender lends cash, evidenced by a promissory note.**
- **Borrower uses the cash to invest. If the rate of return on the investment after any taxes and fees exceeds the specified interest rate (the “spread”), the excess is a tax-free transfer to the borrower.**
- **Absolute, as well as relative, economic indicators suggest when it might make financial sense to enter into a family (or other low interest) loan.**



## What Difference Does The AFR Make?

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**Example: Client extends \$2 million loan to child. Below chart reflects Annual Interest payment under an interest only mid-term, term Note.**

<b>AFR</b>	<b>Interest Payment</b>
<b>2.74%</b> <b>(rate for May 2008)</b>	<b>\$54,800.00</b>
<b>5.09%</b> <b>(rate in August 2007)</b>	<b>\$101,800.00</b>

### **III. Combined Planning – GRATs and Loans**

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#### **Facts:**

**For medical reasons, client's daughter needs to move to new \$2.0M home. No equity in current house, even if she could sell it quickly.**

**Parent purchases home pre-construction. When completed, parent sells it to daughter (grantor trust not needed); paid with a 9-year Note.**

**Parent dedicates \$10.0M stock portfolio to a series of rolling 2-year GRATs. Distributions from GRATs used to repay loan.**

**Result: Assuming 8% average return on stocks, loan repaid in 5 years.**

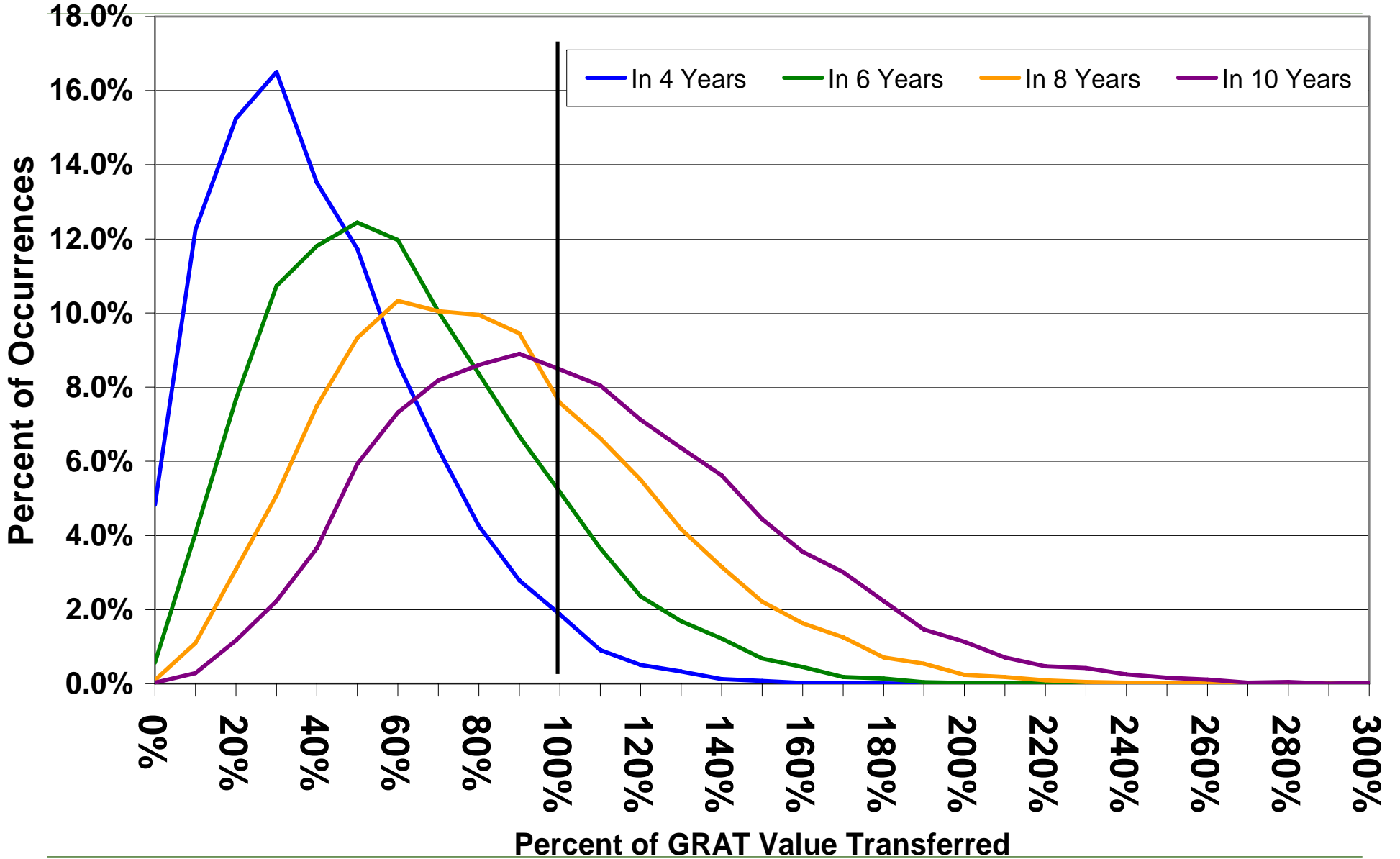
## Would you like to try a combo? 2 Year GRATs to Repay \$2.0M Loan

<b>Funding</b>	<b>\$ 10,000,000</b>
<b>7520 Rate</b>	<b>4.20%</b>
<b>Initial Year</b>	<b>2008</b>
<b>Term</b>	<b>2</b>
<b>GRAT Growth</b>	<b>8.00%</b>
<b>Beneficiary Growth</b>	<b>0.00%</b>
<b>Annuity Increase</b>	<b>20.00%</b>
<b>Annuity Factor</b>	<b>48.42837%</b>

Loan	Year	Beginning Balance	Interest @		Payments	Ending Balance
			3.55%			
	2008	1	<b>\$ 2,000,000</b>	\$ 71,000	\$ -	\$ 2,071,000
	2009	2	\$ 2,071,000	\$ 73,521	\$ (810,423)	\$ 1,334,098
	2010	4	\$ 1,334,098	\$ 47,360	\$ (393,819)	\$ 987,640
	2011	5	\$ 987,640	\$ 35,061	\$ (714,399)	\$ 308,302
	2012	6	\$ 308,302	\$ 10,945	\$ (319,247)	\$ -
	2013	7	\$ -	\$ -	\$ -	\$ -
	2014	8	\$ -	\$ -	\$ -	\$ -
	2015	9	\$ -	\$ -	\$ -	\$ -
	2016	10	\$ -	\$ -	\$ -	\$ -
	2017	11	\$ -	\$ -	\$ -	\$ -

# Rolling 2-Year GRATs

## The Probability of Transferring Assets over Time



# Concluding Take-Aways for Portfolio Planning

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## GRAT “Tweaks”

- Short term “rolling” GRATs
- Separate GRATs for separate asset classes
- Monitor GRAT performance: Lock in gains or bailout of losses
- Consider derivatives to enhance horsepower
- Formula to “cap” amount passing to family; balance is returned
- Pass GRAT remainder into continuing trust
  - Spouse could be a potential beneficiary
  - Qualify trust for Grantor income tax status

## Loans

- When rate/investment “spread”
- Immediate access to funds

## Combine Loans with “rolling” GRATs

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