

Intro to Financial Planning

What is my life expectancy?

- born in 1930
 - men 57
 - women 60
- 65 in 1995
 - men 81
 - women 85
- 75 in 2005
 - men 86
 - women 88
- born in 1990
 - men 72
 - women 79
- 65 in 2055
 - men 97?
 - women 104?
- 75 in 2065
 - men 102?
 - women 105?

How long will I live?

- unknown
 - financially plan for 110

When Will I Retire?

- how about age 65
 - work for 43 years
 - retire for 45 years

*If you do not plan for retirement ...
Do not plan on retiring.*

How Will I Pay for Retirement

- Pension?
 - company-paid retirement
 - being eliminated
- Social Security?
 - government-paid retirement
 - seriously underfunded
- 401(k) and IRAs
 - individual contributions
 - you are responsible for your future

How Much Will I Need

- \$2,000,000 ???
 - 40 years in retirement
 - \$120,000 per year
 - about \$37,000 in today's dollars
40 years from now
- \$4,100,000 ???
 - 60 years in retirement
 - \$217,000 per year
 - about \$37,000 in today's dollars
60 years from now

assumes 5% earned
on investments during
retirement and equal
periodic withdrawals

Where Will I Get \$2 (or 4) Million?

- invest \$5,200 per year toward retirement
 - *(17% of \$30,000 annual salary)*
- \$100 per week for 40 years at 9%

double for \$4 million

Start Early – Invest Often

The Math Behind the Numbers

How Much Will I Have?

$$FV = C * \left[\frac{(1+i)^n - 1}{i} \right] * (1+i)$$

FV = Future Value

C = Constant amount invested each period

i = periodic rate of interest

n = number of periods

The Rule of 72

$$\frac{72}{\text{annual rate of return}} = \text{number of years needed to double your investment}$$

\$5000 Invested Annually for 40 years at 9%

$$FV = 5000 * \left[\frac{(1+.09)^{40} - 1}{.09} \right] * (1+.09)$$

\$1,800,000.00

\$96.16 Invested Weekly for 40 years at 9%

$$FV = 96.16 * \left[\frac{(1+.0017)^{2080} - 1}{.0017} \right] * (1+.0017)$$

\$2,000,000.00

Where to Invest to Get 9% Return

HISTORICAL AVERAGE ANNUAL RETURNS thru 2011

- Cash 3.8%
 - savings
 - checking
 - money mkt
 - CDs
- Bonds 5.4%
 - corporate
 - government
- Stocks 10.5%
 - **Dow (DJIA)**
 - **S&P 500**
 - **NASDAQ**

Notes:

bonds do well when interest rates are dropping...rates are near all-time lows now at around 2%...down from 15% in 1981. Regarding Cash: Money Market rates are currently below 1%

- Stock
 - ownership in a company
 - shares traded in stock market
- Bonds
 - debt of a company or government
 - buy bond = loaning money to earn interest

But Aren't Stocks Risky?

ALL INVESTING INVOLVES RISK

No one can predict what a stock will do.

AND

No one can predict what the market will do.

BUT...

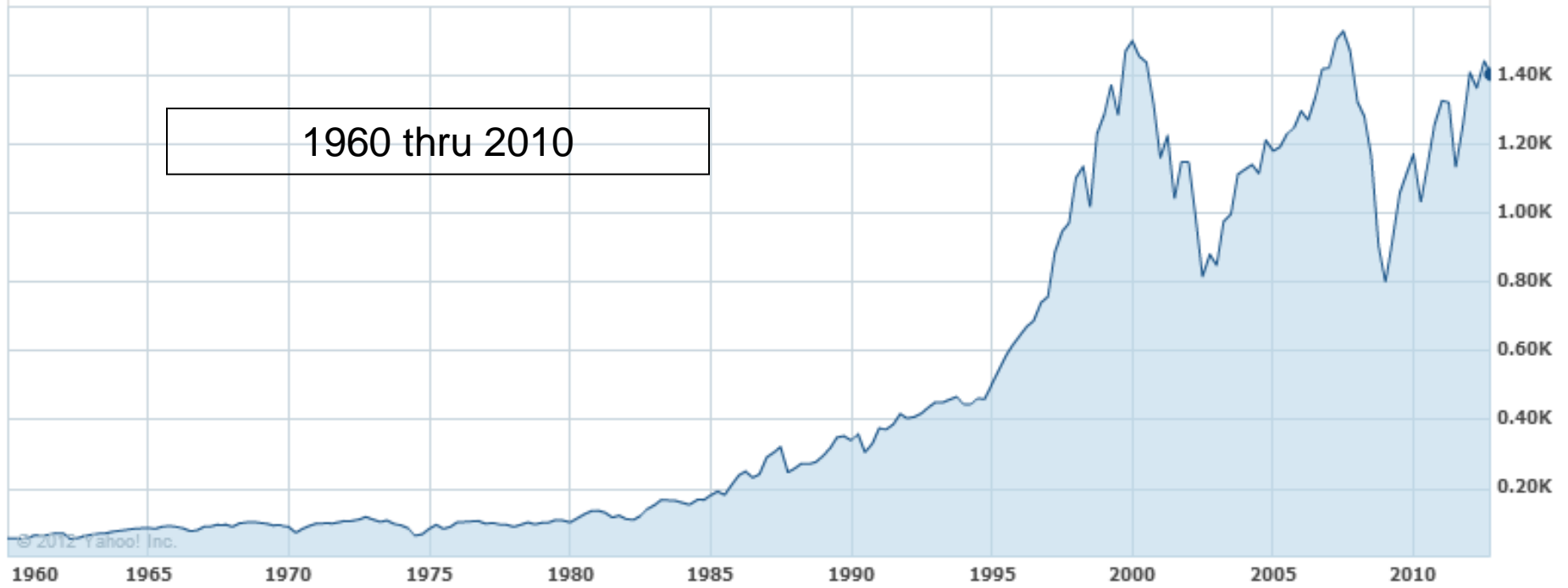
Over the long term the market has trended up at an average rate around 10%

$$'32 - '11 = 11.1\%$$

$$'86 - '11 = 10.5\%$$

$$'91 - '11 = 9.4\%$$

1960 thru 2010



Jan 2000 thru Mar 2012



only three* 10-year periods w/o gain

Dow 10-Year Forward Returns

— 10-Year Forward Returns



Source: <http://observationsandnotes.blogspot.com/>

*thru 2007 ('08 – '10 not so good) '01 – '11 was 4.5%

no 20-year periods w/o gain

Dow 20-Year Forward Returns

— 20-Year Forward Returns



Source: <http://observationsandnotes.blogspot.com/>

thru 2007

How Can I Minimize My Risk?

- Diversification

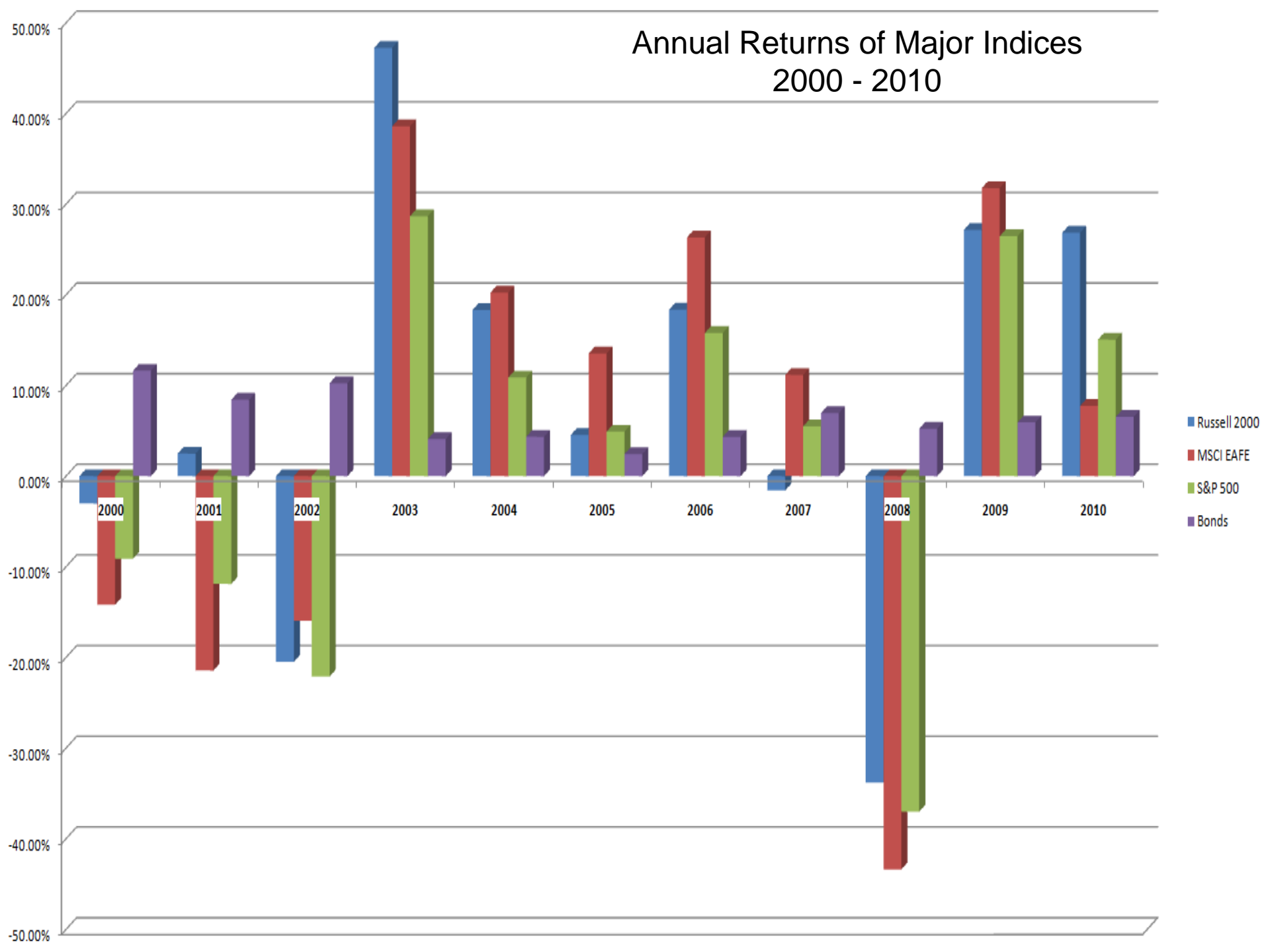
- investing in different types of investments

- *stocks and bonds*
 - *domestic and international*
 - *small-cap and large-cap*
 - *growth and value*

- *spreads out your overall risk*

- *90% of the return with 50% of the risk*

Annual Returns of Major Indices 2000 - 2010



How Can I Invest in the Whole Market?

- Mutual Funds
 - pooling of money
 - managed by mutual fund company
- Index Funds
 - mirror a market index
 - beat most other funds over time
 - low costs

Stock Indexes Measure the Market

- Dow 30
 - largest companies in all sectors (not trans or util)
- S&P 500
 - more of the largest companies
- NASDAQ Composite
- Wilshire 5000
 - 7000 different companies (total market?)
- Russell 2000
 - smaller companies

What if the Market Crashes?

- When stocks do poorly, bonds do well
- If U.S. is down, some foreign markets are up
- Don't put all your eggs in one basket

Where Should I Invest?

- Asset Allocation
 - proportion of your portfolio invested in certain security types
 - stocks, bonds, real estate, cash
 - *the further you are from needing the money, the more risk you can take*
 - *risk / return ratio*
 - *the higher the risk the higher the return or loss*
 - minimize stock exposure as you near retirement

What is the Proper Allocation?

- Allocation depends on age and risk tolerance.

20's	30's	40's
75% US stocks ¹ 25% Foreign stocks 0% bonds ³	70% US stocks ¹ 20% Foreign stocks 10% bonds ³	65% US stocks ¹ 15% Foreign stocks 20% bonds ³

50's	60's
60% US stocks ¹ 10% Foreign stocks 30% bonds ³	50% US stocks ¹ 10% Foreign stocks 40% bonds ³

¹Total Stock Market Index Fund

³U.S. Bond Market Index Fund

Rebalancing

- Over time certain investments do better than others.
 - messes up allocation
 - need to rebalance periodically
 - at least once per year
 - buy losers ,sell winners
 - buy low, sell high

Timing the Market

- Buy Low – Sell High
 - there is no proven measure of when the market peaks or bottoms out

Spend time in the market, not timing the market

Dollar Cost Average

- invest fixed amount periodically
 - buy more when price is low
 - you like when market goes down when you're buying
 - less when price is high
 - average cost is less than average price
 - guaranteed to beat the market

<u>Price</u>		<u>Quantity</u>		<u>Cost</u>
\$10.00		10		\$100
5.00		20		100
4.00		25		100
20.00		5		100
25.00		4		100
		64		\$500

- Average Price:
 $\$64 / 5 = \12.80
- Average Cost:
 $\$500 / 64 = \7.81

How do I Invest?

Set it and forget it!

- Target Date Funds (Life Style Funds)
 - automatically change allocation as you age
 - automatically rebalances periodically
 - automatically dollar-cost-averaging
 - when set up with your bank
- Vanguard Target Retirement 2050
- Fidelity Freedom 2050 Fund