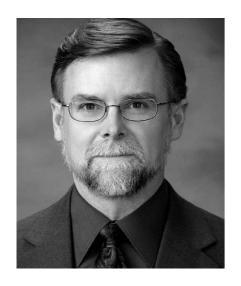


### Relationship GDP growth vs investment market returns

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## What (if any) is the relationship between GDP-growth and investment market returns

Precious metals

Diversified commodities

Investment grade bonds

Stocks

### Why this topic



- Because our industry (and advisors) spend a great deal of time talking about
  - Future economy
  - Prospective economic growth rates
  - Will we . . . or won't we . . . have a recession
- We encourage our clients to believe that this is
  - An important and meaningful topic
  - How we base our investment decisions (at least in part)
  - Understanding it . . . is a key driver of superior performance



# Should we be talking to our clients about future GDP-growth?

Or . . . could such discussions be misleading?

#### No opinions . . . Just the data



- Data . . . . 1914 to the present
- 100% pure U.S.

#### Investment markets

- Diversified precious metals
- Ultra-diversified commodities
- Investment grade Government/Corporate bonds
- S&P 500 Index
- Economic growth
  - GDP growth rate
- Everything is in inflation-adjusted terms



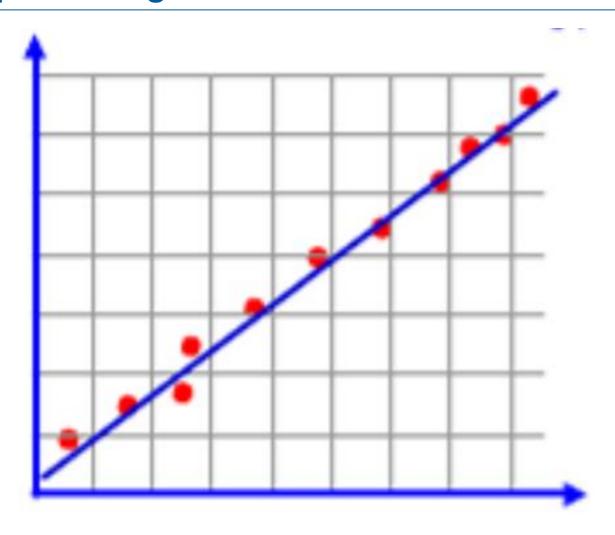
- If stocks normally return something like 10% per year
- How much of that "10%" . . . is <u>explained</u> by future economic growth
- All of it?
- Half of it?
- A quarter?

• This is the question . . . we will answer



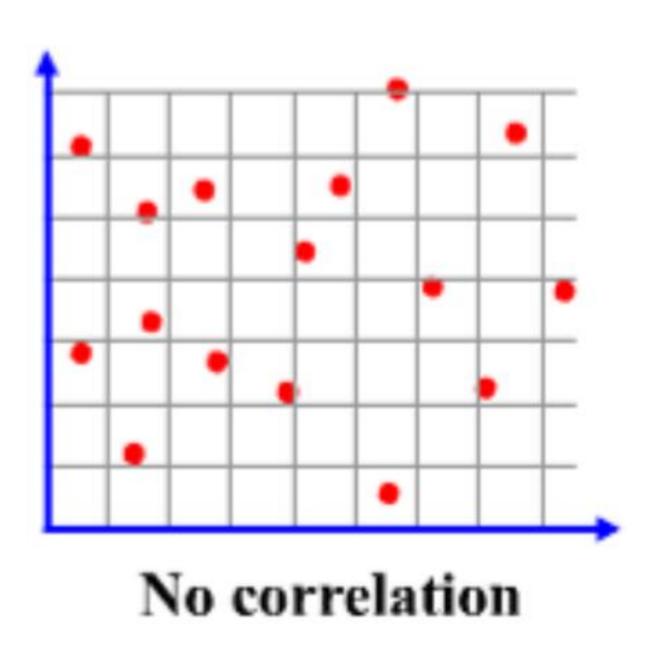
- If you knew in advance . . . exactly how fast the economy would grow (or shrink)
- Would this help you determine whether to be in stocks or not (or any other asset category)
- We examine this question by looking at
  - 1 month
  - 10 years
  - And . . . everything in between





Strong positive correlation





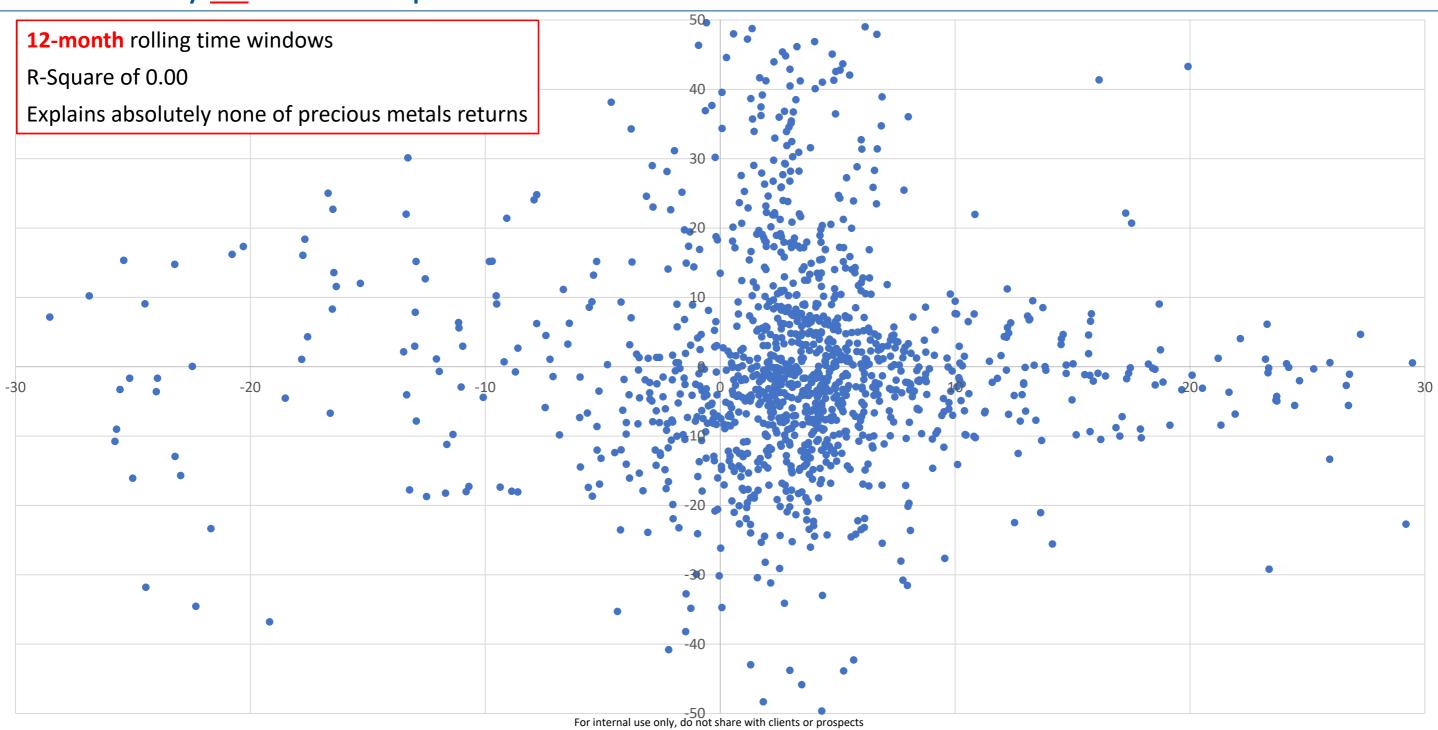


### Diversified precious metals

Think of the ETF with ticker symbol "GLTR"

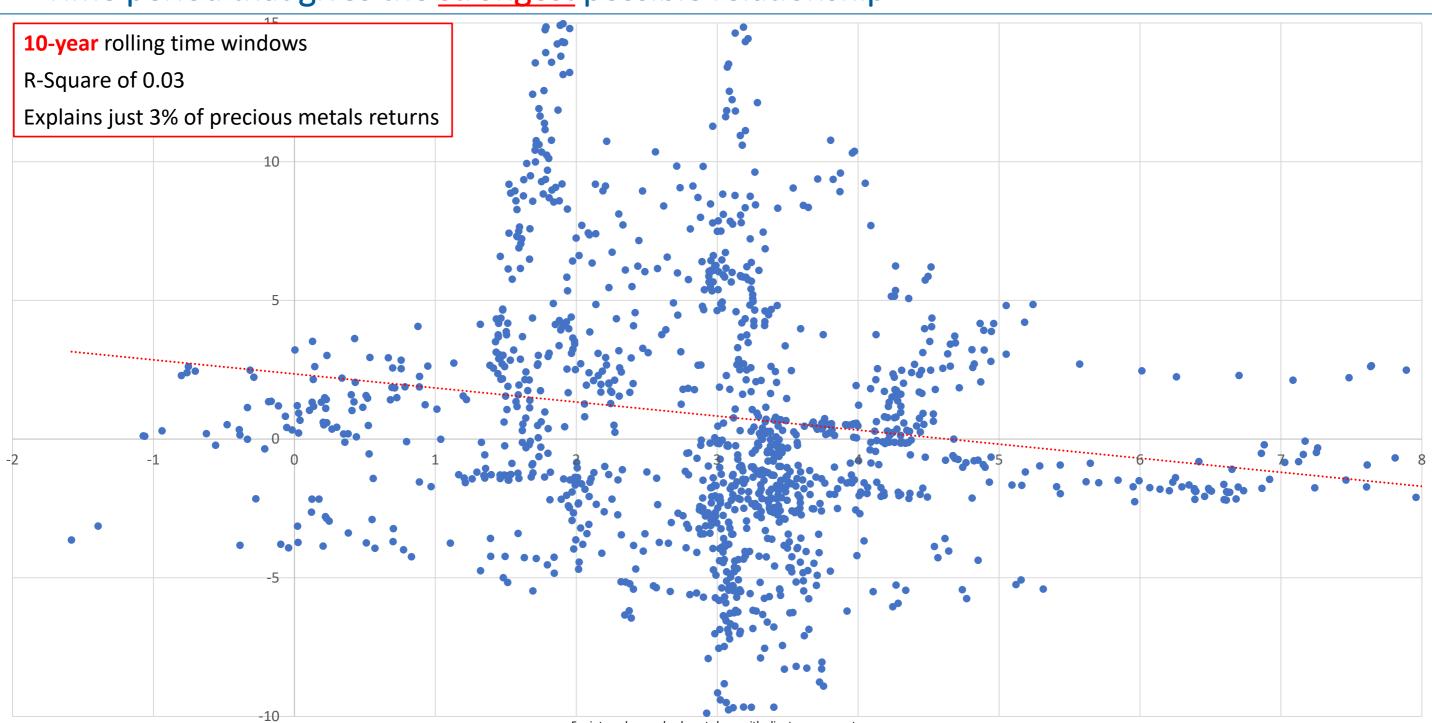
### Absolutely **no** relationship whatsoever . . . . NONE !!





### Time period that gives the strongest possible relationship





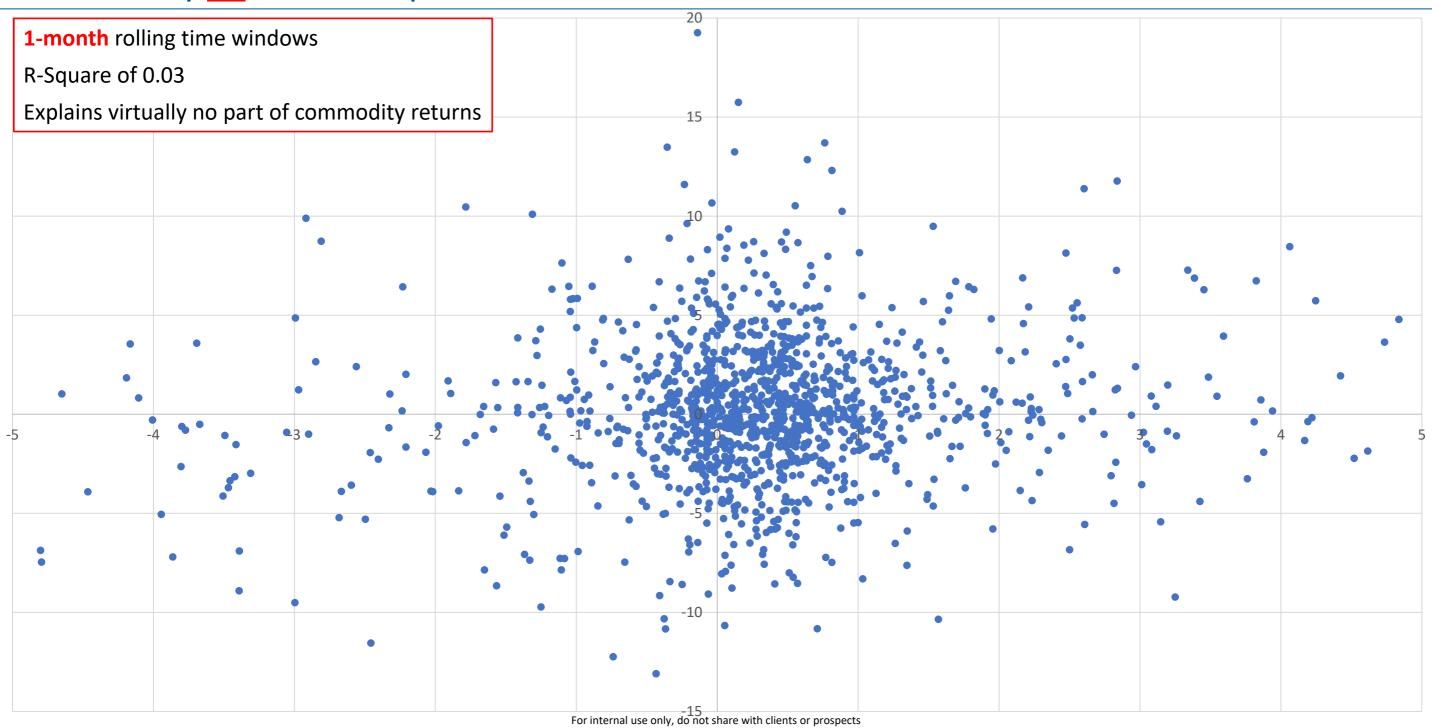


### Ultra-diversified commodities

Think of the ETF with ticker symbol "DBC"

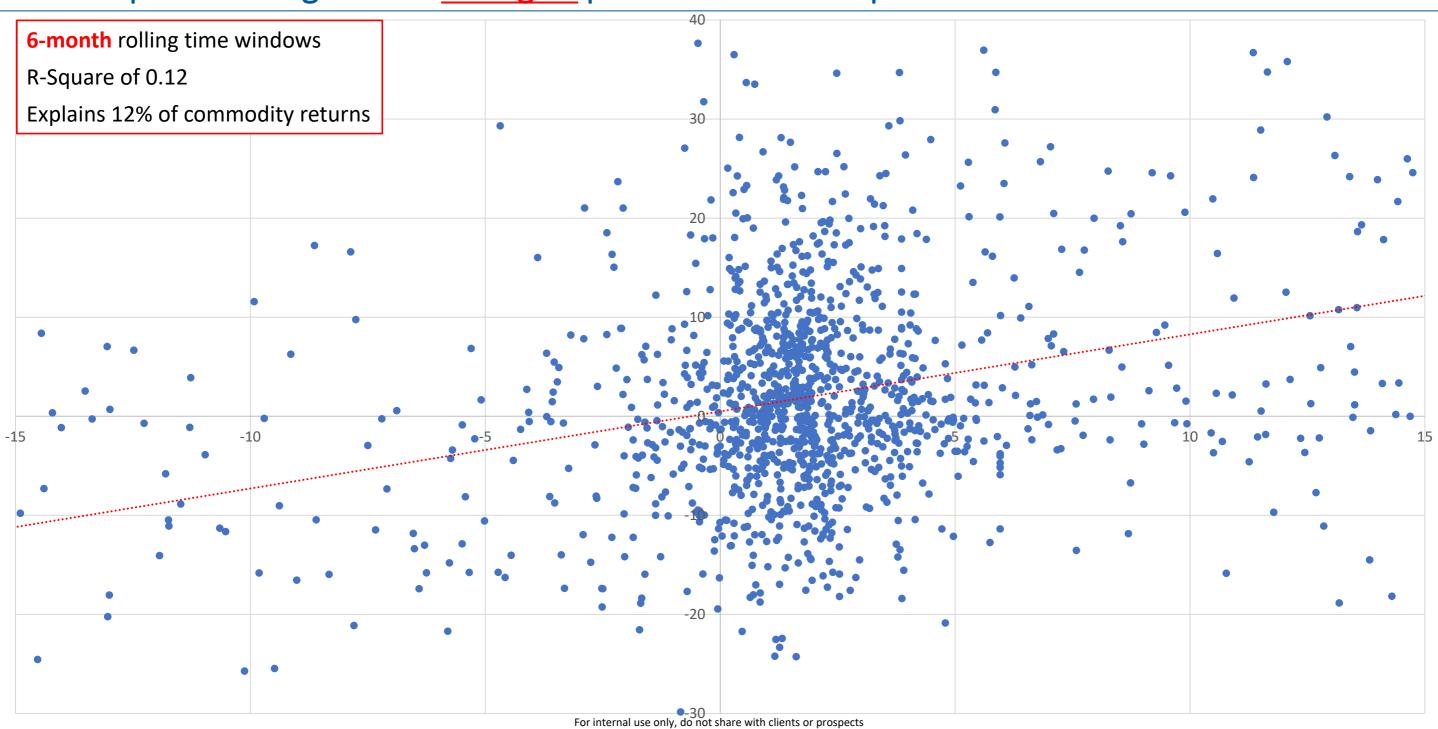
### Absolutely <u>no</u> relationship whatsoever . . . . NONE !!





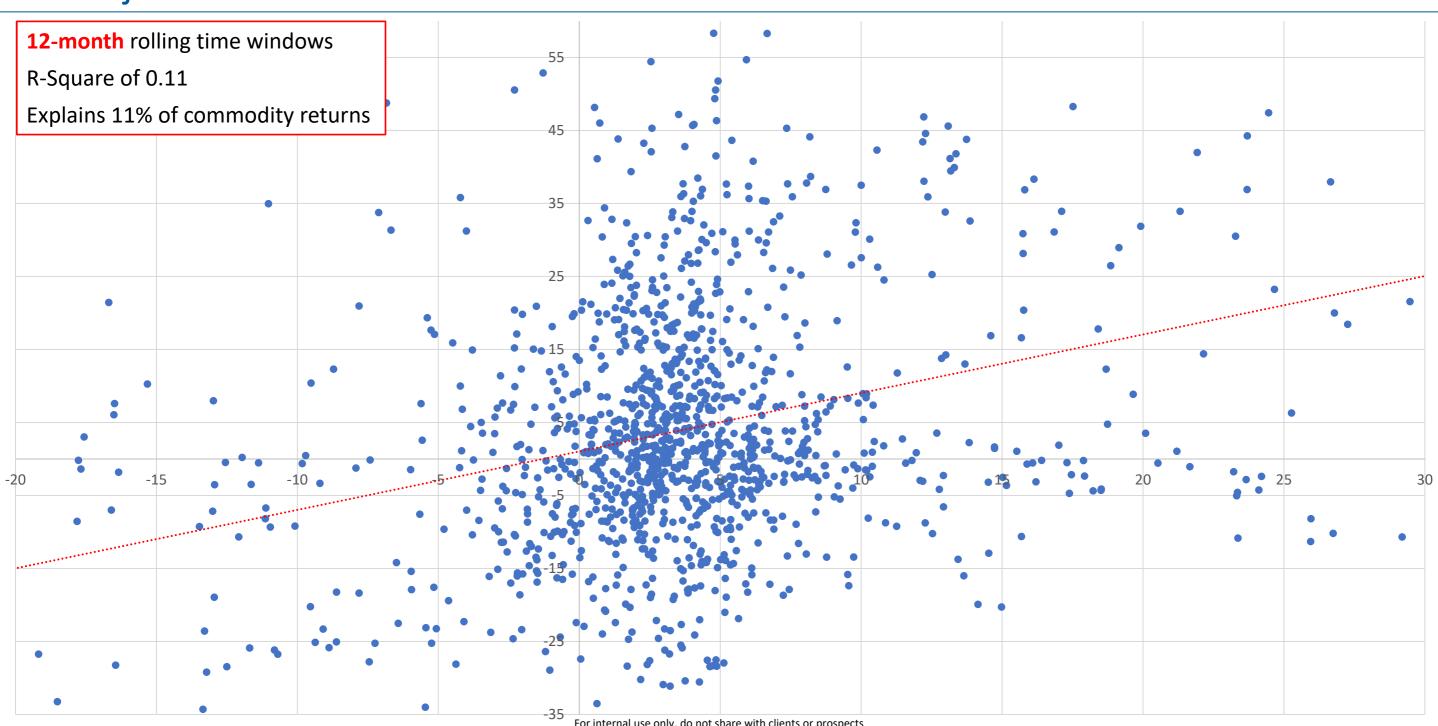
### Time period that gives the strongest possible relationship





### Let's just consider the 12-month time window





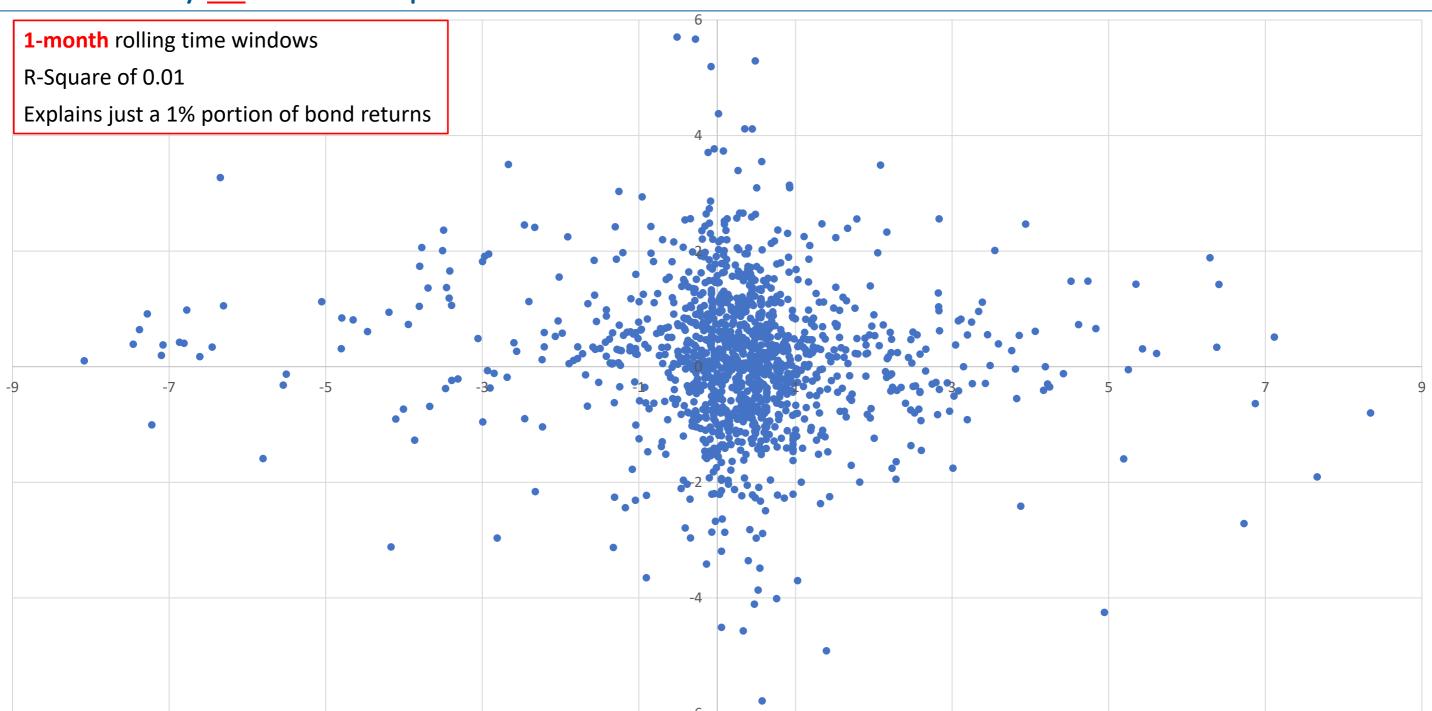


### Investment grade bonds

Think of the ETF with ticker symbol "AGG"

### Absolutely <u>no</u> relationship whatsoever . . . . NONE !!

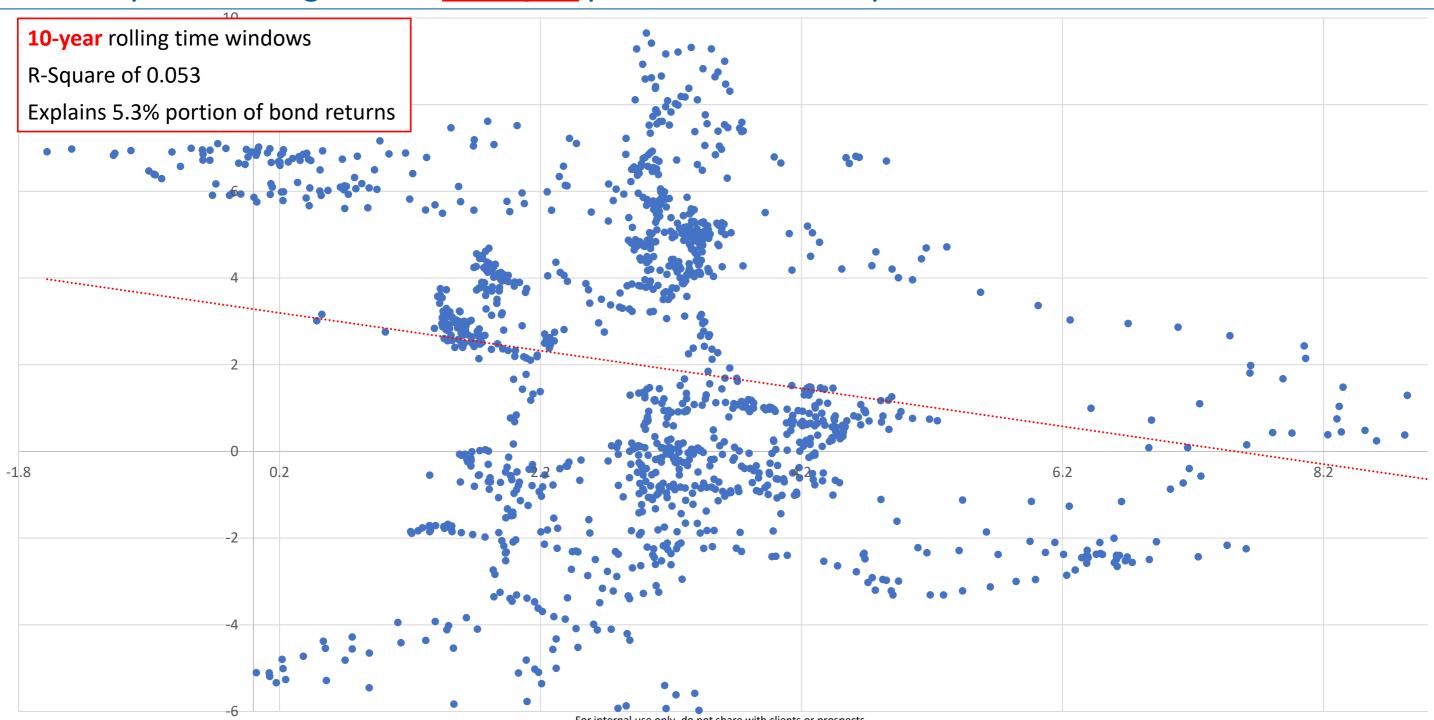




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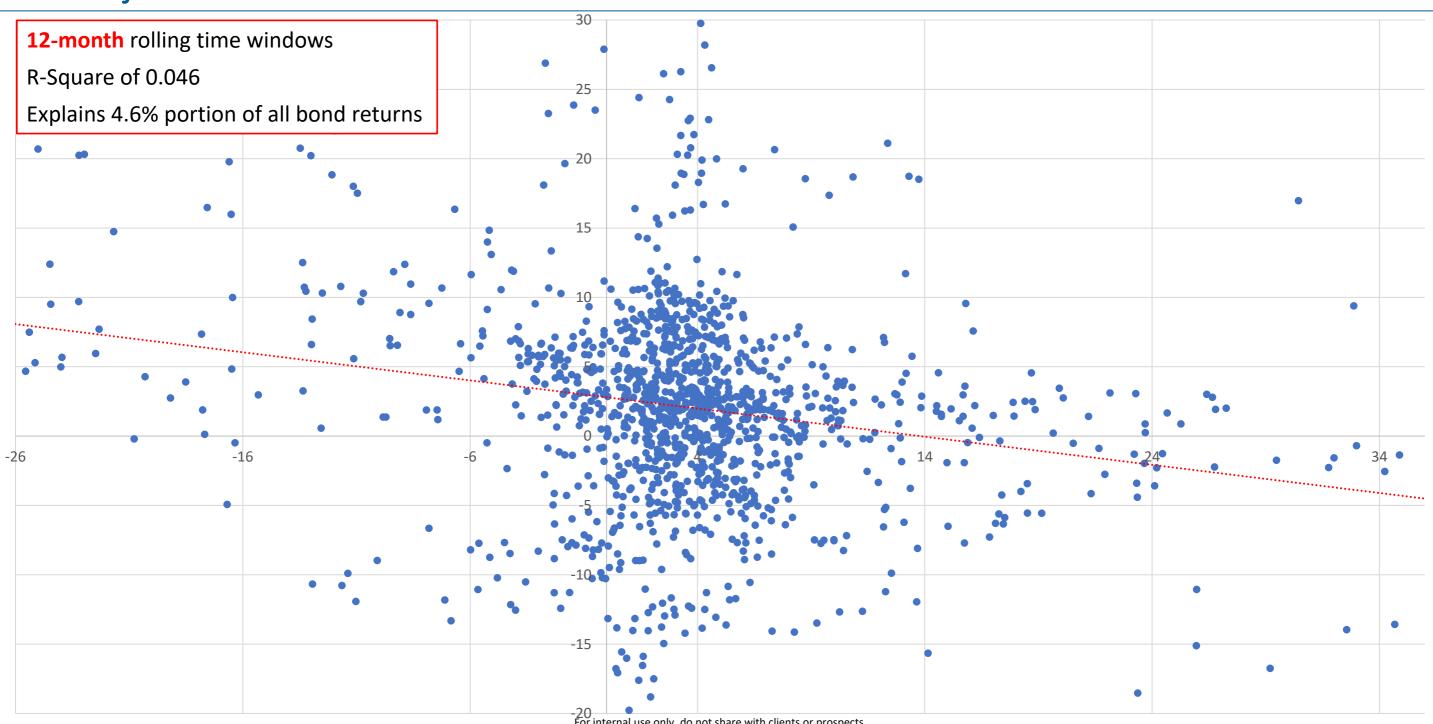
### Time period that gives the strongest possible relationship





### Let's just consider the 12-month time window





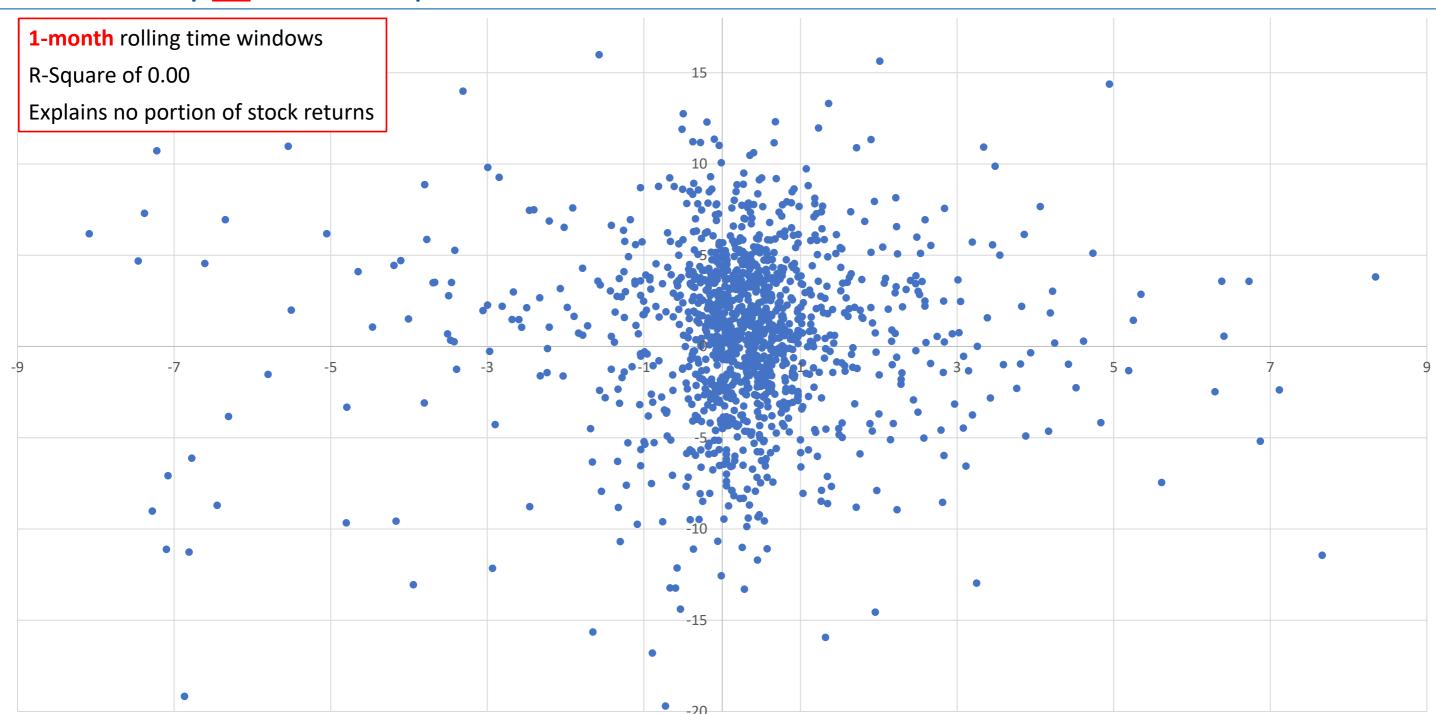


### U.S. stocks

Think of the ETF with ticker symbol "SPY"

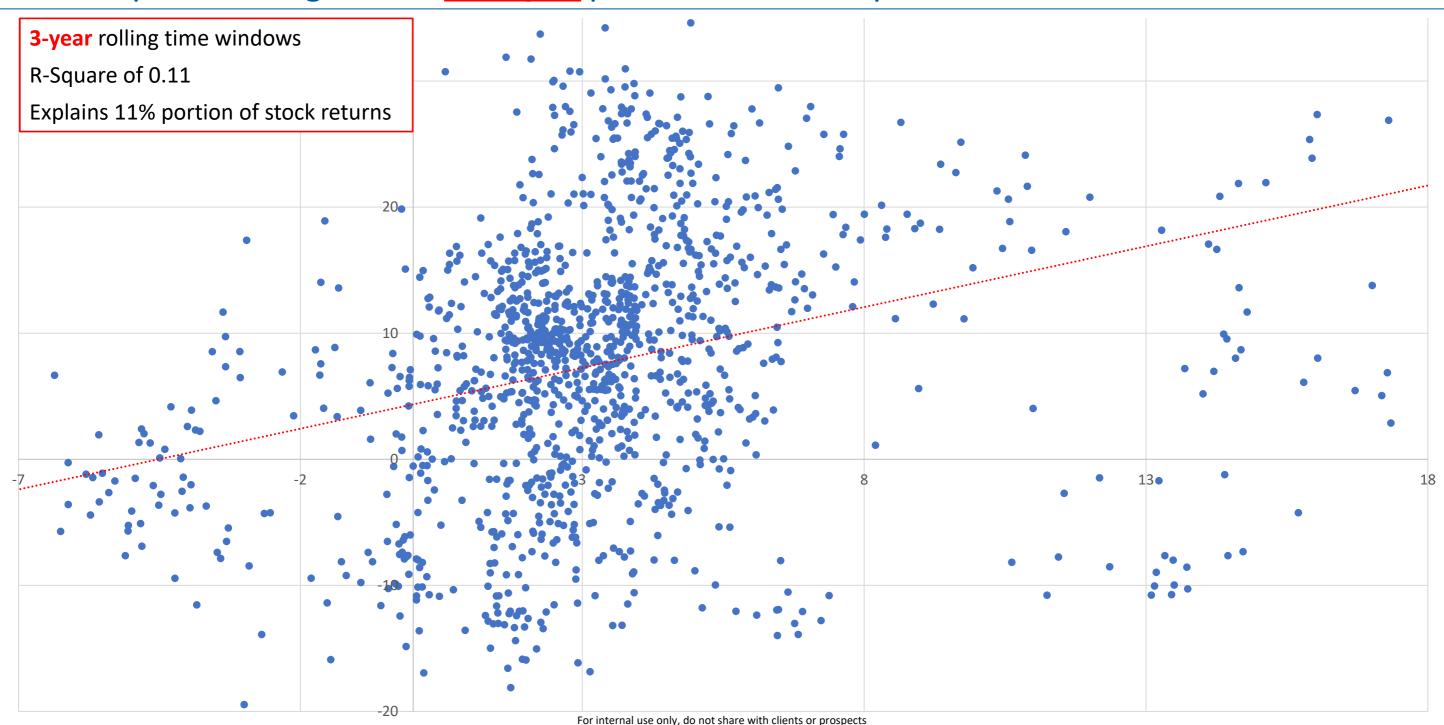
### Absolutely <u>no</u> relationship whatsoever . . . . NONE !!





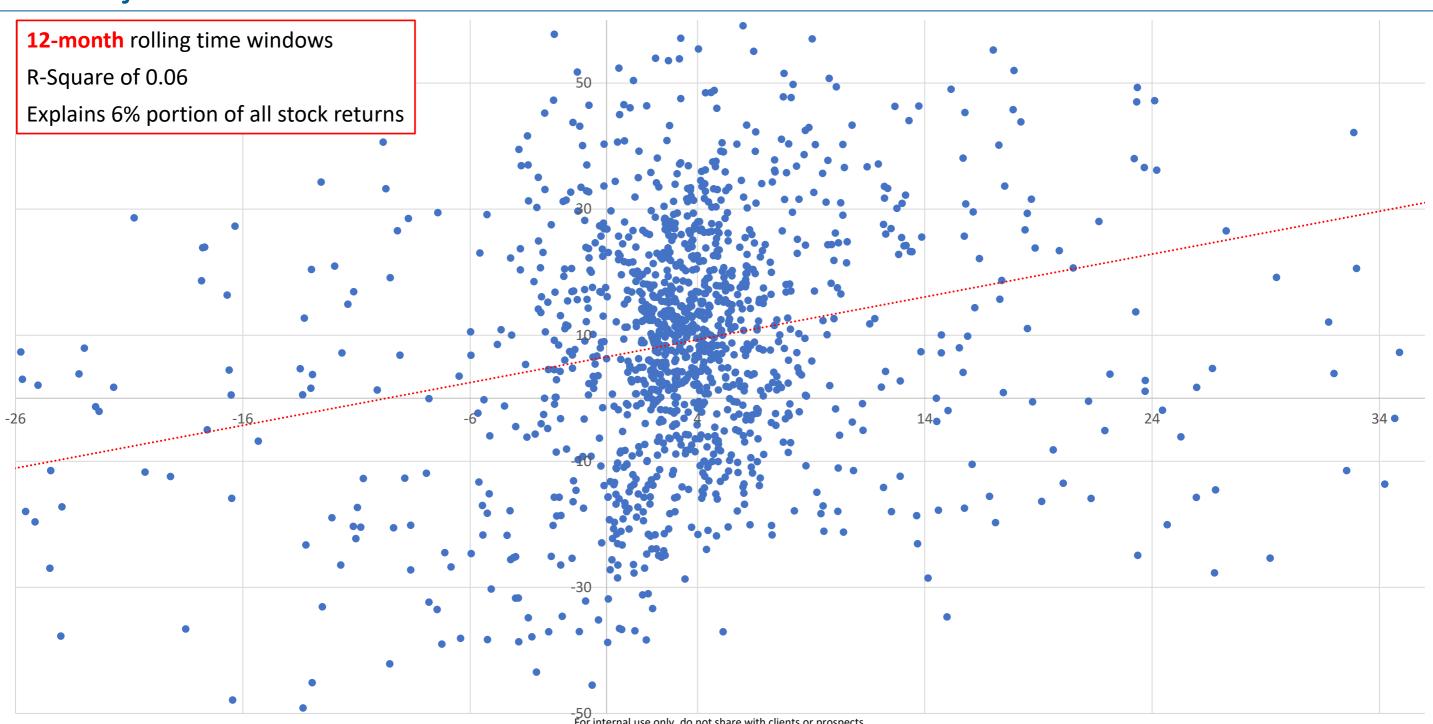
### Time period that gives the strongest possible relationship





### Let's just consider the 12-month time window







### Summary

### Summary - If you know the future in advance, how much does it help?



	Worst possible		Best possible			12 months in the future	
Diversified precious metals	12 months	0%	 10 years	3%	-	 0%	-
Ultra-diversified commodities	1 month	3%	 6 months	12%	+	 11%	+
Investment grade US government/corporate bonds	1 month	1%	 10 years	5.3%	-	4.6%	-
S&P 500	1 month	0%	 3 years	11%	+	6%	+

### Summary - If you know the future in advance, how much does it help?



Worst possible		Best possible			12 months in the future	
12 months	0%	10 years	3%	-	0%	-
1 month	3%	6 months	12%	+	11%	+
1 month	1%	10 years	5.3%	-	4.6%	-
1 month	0%	3 years	11%	+	6%	+
	1 month  1 month	12 months       0%         1 month       3%         1 month       1%         1 month       0%	1 month 3% 6 months  1 month 1% 10 years	1 month       3%       6 months       12%         1 month       1%       10 years       5.3%	1 month 3% 6 months 12% +  1 month 1% 10 years 5.3% -	1 month       3%       6 months       12%       +       11%         1 month       1%       10 years       5.3%       -       4.6%



- If stocks normally return something like 10% per year
- How much of that "10%" . . . is explained by future economic growth
- All of it?
- Half of it?
- A quarter?

• This is the question . . . we will answer



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• This is the question . . . we will answer

Or . . .

If stocks return 10% next year

Then just 0.6% is explained by what the economy does

**9.4%** is explained by other factors

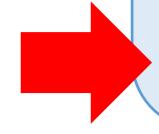


- If stocks normally return something like 10% per year
- How much of that "10%" . . . is explained by future economic growth
- All of it?
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- A quarter?
- This is the question . . . we will answer

If you know in advance, exactly what the economy will do over the next 12 months

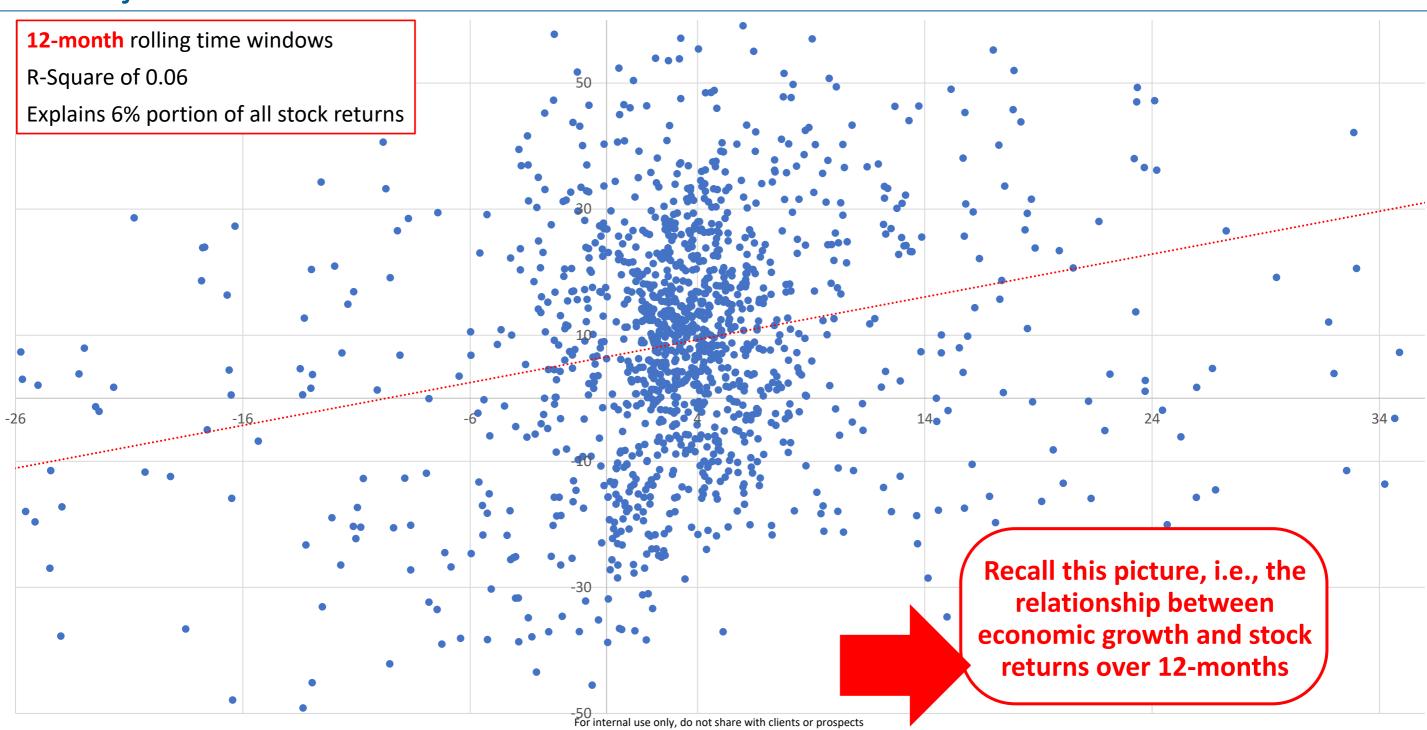
This perfect foreknowledge . . . . allows you to explain what **portion** of future investment returns?

- 0% of precious metals
- 11% of commodities
- 4.6% of bonds
- 6% of stocks



### Let's just consider the 12-month time window







## Does knowledge of future GDP growth help anywhere?

### Real estate . . . and a few other things



- Real estate
- Labor income
- Unemployment
- Job prospects
- Housing
- Level of the US Dollar
- Will the credit spreads on your junk bonds widen out
- Will you get a raise . . . and how large
- Long-run professional opportunity
- These are an ENTIRELY different matter

#### For more information contact





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### Case for Tactical Asset Allocation revisited

Friday

February 3<sup>rd</sup>

11:00 a.m. EASTERN

#### **Important Disclosures**



All data and statistics were provided by Global Financial Data, Inc. and NDR, Inc. (unless otherwise indicated in the exhibit)

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