Why is the Shiller CAPE So High?

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The issue of the usefulness of CAPE as a timing signal and whether its historical values can be used in the current economic and financial environment has received significant attention in academic and industry papers. The paper that follows was published on the blog http://www.philosophicaleconomics.com and is published here with the permission of the author. The blog contains several other posts on this topic.

This blog post provides a rather comprehensive discussion of why the current levels of CAPE might be so high. Of course, one obvious reason is that stock prices are too high by historical standards. However, as this post explains, there might be other reasons at work.

Hossein Kazemi, Editor

Introduction

Why is the Shiller CAPE so high? In the last several weeks, a number of prominent academics and financial market commentators have attempted to answer this question, including the inventor of the valuation measure himself, Nobel Laureate Robert Shiller. In this piece, I’m going to attempt to give a clear answer.

The piece has five parts:

1. In the first part, I’m going to explain why valuations in general are higher than they have been historically. It’s not just the CAPE that’s historically elevated; the simple TTM P/E ratio is also historically elevated, by a reasonably large amount.

2. In the second part, I’m going to highlight the main reason that the Shiller CAPE has risen relative to the simple TTM P/E over the last two decades: high real EPS growth. I’m going to introduce a schematic that intuitively illustrates why high real EPS growth produces a high Shiller CAPE.

3. In the third part, I’m going to explain how reductions in the dividend payout ratio have contributed to high real EPS growth. In discussing the dividend payout ratio, I’m going to present a different, potentially more accurate formulation of the Shiller CAPE, a formulation that conducts the calculation based on total return instead of price. On this formulation, the Shiller CAPE falls by around 10%, from 26.0 to 23.5.

4. In the fourth part, I’m going to explain how a secular uptrend in profit margins has contributed to high real EPS growth over the last two decades. This effect is the most powerful of all, and is the reason why the Shiller CAPE and the TTM P/E have diverged in their valuation signals.

5. In the fifth part, I’m going to outline a set of possible future return scenarios that investors at current valuations can reasonably expect. Then, I’m going to identify the future return scenario that I find most credible.

Higher P/E Valuations Generally

It’s important to note at the outset that the Shiller CAPE isn’t the only price-to-earnings (P/E) metric that is currently elevated. The good-old-fashioned trailing twelve month (TTM) P/E ratio is also elevated. With the index at 2000 and 2Q TTM reported earnings per share (EPS) at 103.5, the current TTM P/E is 19.3 (the number doesn’t change much if we use TTM operating earnings, since the economy is in expansion, and write-downs are no longer a big impact). The historical average for the TTM P/E is 14.6. So, on a simple TTM P/E basis, the market is already 33% above its historical average.

Note that I did not say that the market is 33% “overvalued” — to call the market “overvalued” would be to suggest that it shouldn’t be at the valuation that it’s at. This is too strong. Not only is it possible that the market should be at its current valuation, it’s also possible that the market should be at a still higher valuation, and that it’s headed to such a valuation.

Now, to the crucial point that market moralists consistently miss. The market’s valuation does arise out of the application of any external standard for what “should” be the case.
Rather, the market's valuation arises as an inadvertent *byproduct* of the equilibration of supply and demand: the process through which the quantity of equity being supplied by sellers achieves an equilibrium with the quantity of equity being demanded by buyers. In a liquid market, the demand for equity must equal the supply on offer. “Price” is the factor that changes so as to cause the two to equal. In a normal, well-anchored market, higher prices lead to reduced demand and increased supply on offer, and lower prices lead to increased demand and reduced supply on offer. If, at a given market price, the demand for equity exceeds the supply on offer, the market price will rise, which will lower the demand and increase the supply on offer, pulling the two back into equilibrium. Similarly, if, at a given market price, the demand for equity falls short of the supply on offer, the market price will fall, which will increase the demand and reduce the supply on offer, again pulling the two back into equilibrium.

Right now, the price necessary to bring the demand for equity into equilibrium with the supply on offer happens to be higher, relative to earnings, than the price that successfully achieved the same equilibrium in the past. In a prior piece, I laid out a number of possible reasons for this shift. The most important reason has to do with expectations about future interest rates. Right now, the market's expectation is that future interest rates will be low — less than 2%, on average — for the next several decades, and maybe for the rest of time.

The interesting thing about markets is that investors in aggregate have to hold *every* asset in existence, including what is undesirable — in this case, low — return cash and fixed income. Obviously, investors are not going to want to hold low-return cash and fixed income in lieu of equities *unless* they expect that: (1) equities at current prices will also offer low future returns on the relevant long-term horizons, or (2) catalysts will emerge that will lead other investors to focus on the short-term and sell, leaving behind painful mark-to-market losses that those who are stuck in the market will have to endure, and, conversely, affording exciting “buying opportunities” that those who are out of the market will get to capitalize on.

We are at a point in the economic cycle where the fear of (2) on the part of those invested, and the hope for (2) on the part of those on the sidelines, is fading. As the economy strengthens in the presence of highly supportive Fed policy — policy that *everyone* knows will remain supportive for as far as the eye can see — those that are invested in the market are becoming less and less afraid of corrections, and those on the sidelines are growing more and more frustrated waiting in vain for them to happen. Crucially, those on the sidelines sense the growing confidence levels of their fellow investors, and are increasingly resigning themselves to the fact that the kinds of catalysts that might break that confidence, and produce meaningfully lower prices, are unlikely to emerge in the near term. Consequently, the market is slowly and painfully being pushed upward into the first condition, a condition where equity valuations rise until investors become sufficiently disenchanted with them that they willingly settle for holding low return cash and fixed income instead — not briefly, in anticipation of a correction that is about to happen, but for the *long haul*.

Some would say that market prices have gone too far, and that equities are now offering excess return relative to cash and fixed income — or even worse, a negative excess return. But those that reach this conclusion are estimating long-term equity returns using a method that makes aggressive assumptions about the trajectory of future profit margins, assumptions that will probably prove to be incorrect, if recent experience is any indication of what's coming.

**Real EPS Growth: Impact on the Shiller CAPE**

Returning to the Shiller CAPE, its current value is 26.0. Its long-term historical average (geometric) is 15.3. On a Shiller CAPE basis, the market is 70% above its long-term historical average. It follows that almost all of the Shiller CAPE's current elevation, 33% out of the overall 70%, can be attributed to the elevation of the simple TTM P/E measure.
This fact usually gets missed in discussions about the CAPE because market participants tend to analyze the market’s valuation in terms of forward earnings estimates. On the most recent estimates for year-end 2015, the market’s P/E is 15.1, a number almost perfectly in-line with the historical average. But this number is pure fantasy. For the number to actually be achieved, the S&P will need to generate $132.30 in reported earnings for 2015 — a growth of almost 30% over the next 16 months, off of earnings and profit margins that are already starting at extreme highs. How exactly will this super growth be achieved? Will S&P 500 revenues — and the overall U.S. GDP which they track — see 30% nominal growth over the next year and a half? Are profit margins going to rise by 30%, from 10% to 13%? Macroeconomically, the estimate makes no sense.

Exhibit 2 shows the percent difference between the CAPE valuation signal (the ratio of the CAPE to its historical average) and the TTM P/E valuation signal (the ratio of the TTM P/E to its historical average) from 1881 to 2014:

When the blue line is positive, the CAPE is calling the market more expensive than the TTM P/E. When the blue line is negative, the CAPE is calling the market cheaper than the TTM P/E. Right now, the CAPE is calling the market more expensive than the TTM P/E, but not by an extreme amount — the difference between the two metrics is in-line with the difference seen during other periods of history.

With the exception of the large write-down-driven gyrations of the last two recessions, you can see that over the last two decades, the CAPE has consistently called the market more expensive than the TTM P/E. But that hasn’t always been the case. For much of the 1980s and early 1990s, the tables were turned; the CAPE depicted the market as being cheaper than the TTM P/E.

Now, why does the CAPE sometimes depict the market as more expensive than the TTM P/E, and sometimes cheaper? The main reason has to do with the rate of real EPS growth over the trailing ten-year period. Recall that the Shiller CAPE is calculated by dividing the current real price of the index by the average of each month’s TTM EPS going back 10 years (or 120 months). When the real TTM EPS has grown significantly over the trailing ten-year period, this average tends to deviate by a larger amount from the most recent value — the value that is used to calculate the TTM P/E.
The point can be confusing, so I’ve attempted to concretely illustrate it with Exhibit 3.

Consider the high real growth scenario on the left. Real EPS grows from $100 to $200 over a ten-year period. The average of real EPS comes out to $150, relative to the most recent real TTM EPS number of $200. The difference between the two, which drives the difference between the valuation signals of the CAPE and the TTM P/E, is high, around 33%.

Now, consider the low real growth scenario on the right. Real EPS grows from $100 to $110 over a ten-year period. The average of real EPS comes out to $105, relative to the most recent real TTM EPS number of $110. The difference between the two, which drives the difference between the valuation signals of the CAPE and the TTM P/E, is low, around 5%.

As you can see, on a Shiller CAPE basis, the market ends up looking much cheaper in the low real growth scenario than in the high real growth scenario, even though the valuation is the same on a TTM basis. This result is not in itself a mistake — the purpose of the CAPE is to discount abnormal EPS growth that is at risk of being unwound going forward.

To further confirm the relationship, consider Exhibit 4, which shows the percent difference between the valuation signals of the CAPE and TTM P/E (blue) alongside the real EPS growth rate of the prior 10 years (red).

As expected, the two lines track very well. In periods of high real EPS growth, the market ends up looking more expensive on the CAPE than on the TTM P/E. In periods of negative real EPS growth, the market ends up looking less expensive on the CAPE than on the TTM P/E.

Over the last two decades, the S&P 500 has seen very high real EPS growth — 6% annualized from 1992 until today. For perspective, the average annual real EPS growth over the prior century, from 1871 to 1992, was only 1%. This rapid growth, along with changes to goodwill accounting standards that severely depressed reported earnings during and after the last two recessions (the latter of which is now out of the trailing ten-year average, and no longer affecting the CAPE), explains why the CAPE has been high relative to the TTM P/E.

But why has real EPS growth been so high over the last two decades? Before we explore the reasons, let’s appraise the situation with an exhibit (5) of real TTM reported EPS for the S&P 500 from 1962 to present, with the period circa 1992 circled in red.

Surprisingly, from 1962 to 1992, real TTM EPS growth was zero. For literally 30 years, the S&P produced no real fundamental return, outside of the dividends that it paid out. But since then, real EPS growth has boomed. From 1992 until 2014, S&P earnings have quadrupled in real terms. Why has real EPS growth picked up so much in the last two decades? There are two main reasons, which we will now address.
Changes in the Dividend Payout Ratio

The first reason, which is less impactful, has to do with changes in the dividend payout ratio. In a prior piece it was discussed that dividends and growth are fungible. If the corporate sector lowers its dividend payout ratio to fund increased internal reinvestment (capex, M&A, buybacks), real EPS growth will rise. If it lowers its internal reinvestment (capex, M&A, buybacks) to fund an increase in dividends, real EPS growth will fall. Assuming that the market is priced at fair value, and that the return on equity stays constant over time, the effects of the change will cancel, so that shareholders end up with the same return.

Exhibit 6 illustrates the phenomenon. Over the long-term, the real return contribution from dividends (green) can rise or fall, but it doesn’t matter — the return contribution from real EPS growth (gold) shifts to offset the change, and keep the overall shareholder return constant (historically around 6%, assuming prices start out at fair value).

Now, we know that the dividend payout ratio for U.S. equities has fallen steadily since the late 19th century, and therefore we should expect real EPS growth now to be higher than in the past. Exhibit 7 shows the trailing ten-year average dividend payout ratio for the S&P 500, from 1881 to 2014.

But how much of a difference does the change in the dividend payout ratio make, as far as real EPS growth and the Shiller CAPE are concerned?

Exhibit 7 S&P 500 Shillerized Dividend Payout Ratio Over Time
Source: Author’s calculations

The question is hard to answer. One thing we can do to get an idea of the size of the difference is to build a CAPE using a total return index instead of a price index. Using a total return index instead of a price index puts all dividend payout ratios on the same footing.

Exhibit 8 shows the Shiller CAPE constructed using a total return index (blue) instead of a price index (red), from 1891 to 2014.

[Details: The Total Return Shiller CAPE is constructed as follows. Start with one share of the S&P 500 at the beginning of the data set. Reinvest the dividends earned by that share, and each subsequent share, as they are paid out. The result will be an index of share count that grows over time. To calculate the Total Return Shiller CAPE, take the current real price times the current number of shares, and divide that product by the average of the real price times the number of shares that were owned in each month, going back ten years or 120 months. Then normalize the result for apples-to-apples numeric comparison with the original Shiller CAPE.]
Note: The flaw in this measure is that it quietly rewards markets that are overvalued and quietly punishes markets that are undervalued. The dividend reinvestment in overvalued markets gets conducted at less accretive prices than the dividend reinvestment in undervalued markets, causing the metric to shift slightly in the lower direction for overvalued markets, and slightly in the upward direction for undervalued markets. To address this problem, we could hypothetically conduct the dividend reinvestments at “fair value” instead of at the prevailing market price — but we don’t yet have an agreed-upon way of measuring fair value! We’re trying to build such a measure — a measure that appropriately reflects the impact of dividend payout ratio changes.

With the S&P at its current level of 2000, the Total Return Shiller CAPE comes in at around 23.5 — 10% below the original Shiller CAPE, which is currently at 26.0. A 10% difference isn’t huge, but it still matters.

Changes in the Profit Margin

The bigger factor underlying the strong growth in real EPS over the last two decades, and the associated upward shift in the Shiller CAPE relative to the TTM P/E, has been the trend of increasing profit margins — a trend that began in 1992, and that continues intact to this day. To understand the powerful effect that changes in profit margins can have on real EPS growth, let’s take a moment to consider the drivers of aggregate corporate EPS growth in general.

There are three ways that the corporate sector can grow its EPS in aggregate:

- **Inflation**: The corporate sector can continue to make and sell the same quantity of things, but sell them at higher prices. If profit margins remain constant, then the growth will translate entirely into inflation. There will not be any income growth of any kind — no real EPS growth, no real sales growth, no real wage growth — because the price index will have shifted by the same nominal amount as each type of income.

- **Real Sales Growth**: The corporate sector can make and sell a larger quantity of things at the same price. If profit margins remain constant, the result will be growth in each type of income: real EPS growth, real sales growth, and real wage growth. Each type of income will rise proportionately amid a constant price index, allowing the lot of every sector of the economy to improve in a real, sustainable manner.

- **Profit Margin Shift**: The corporate sector can make and sell the same quantity of things at the same price, but then claim a larger share of the income earned from the sale. The shift will show up entirely as real EPS growth, but with no real sales growth, and negative real wage growth — “zero-sum” growth for the larger economy.

[Note: the corporate sector can also grow its nominal EPS by shrinking its outstanding share count through M&A and share buybacks. But this “float shrink” needs to be funded. If it is funded with money that would otherwise have gone to dividends, then we’re back to the fungibility point discussed earlier — on net, shareholders will not benefit. If it is funded from money that would otherwise go to capex, then the effects of the reduction in share count will be offset by lower real earnings growth, and shareholders again will be left no better off. If it is funded with an increased accumulation of debt — a “levering up” of corporate balance sheets — the assumption is that there will be a commensurate payback when the credit cycle turns, a payback in which dilutions, unfavorable financing agreements, and defaults undo the accretive effects of the prior share count reduction. This story is precisely the one that unfolded from 2004 to 2008, and then from 2008 to 2010 — a levered M&A and buyback boom significantly reduced the S&P share count, and then the dilutions of the ensuing recession brought the share count back to roughly where it began.]

In reality, aggregate corporate EPS tends to evolve based on a combination of all three processes occurring at the same time. Some inflation, some real sales (output) growth, and some shift in the profit margin (cyclical or secular — either can occur, since profit margins are not a reliably mean-reverting series).
The important point to recognize, however, is this: real sales growth for the aggregate corporate sector (real increases in the actual quantity of wanted stuff that corporations make and sell, as opposed to inflationary growth driven by price increases) is hard to produce in large amounts, particularly on a per share, after-dilution basis. For this reason, absent a profit margin change, it's difficult for real EPS to grow rapidly over time. Wherever rapid real EPS growth does occur, a profit margin increase is almost always the cause.

Exhibit 9 shows the net profit margin of the S&P 500 on GAAP reported earnings from 1962 to 2014, with the period circa 1992 circled in red.

Exhibit 10 superimposes real EPS (green) onto the profit margin (blue).

As you can see, profit margins began the period in 1962 at almost 7%, and bottomed in 1992 at less than 4%, leaving investors with real EPS growth over a period of roughly thirty years. From 1992 until today, profit margins rose from 4% to 10%, leaving investors with annualized real EPS growth of 6%, more than three times the long-term historical average (1871-2014), 1.8%.

Valuation bears have been warning about “peak profit margins” for four years now (and warned about them in the last cycle as well). But profit margins keep rising. In this most recent quarter, they reached a new record high, on top of the record high of the previous quarter, on top of the record high of the quarter before that. What's going on? When is this going to stop, and why?

Nobody knows the answer for sure — certainly not the valuation bears who have continually gotten the call wrong. But even the valuation bulls will have to acknowledge that the profit margin uptrend seen over the last two decades can't go on forever. It will have to eventually peter out — probably sooner rather than later. If and when that happens, real EPS growth will be limited to the contributions of real sales growth from reinvestment and float shrink from M&A and share buybacks. Neither phenomenon is capable of producing the kind of rapid real EPS growth that the S&P has seen over the last two decades (especially not the M&A and buybacks, which are occurring at lofty prices), and therefore the rate of real EPS growth should moderate, and the divergence between the Shiller CAPE and the TTM P/E should narrow.

Valuation: A Contingent Approach

In another piece, I argued that profit margins are the epicenter of the valuation debate. All of the non-cyclical valuation metrics that purport to show that the market...
is egregiously overvalued right now rely on aggressive assumptions about the future trajectory of profit margins — assumptions that probably aren’t going to come true. You can add the Shiller CAPE to that list, since its abnormal elevation relative to the TTM P/E is tied to the increase in profit margins that has occurred since the early-to-mid 1990s.

When investors discuss valuation, they often approach the question as if there were an objective, determinate answer. But there isn’t. At best, valuation is a contingent judgement — a matter of probabilities and conditionalities: “if A, then B, then C, then the market is attractively valued,” “if X, then Y, then Z, then the market is unattractively valued.” There are credible scenarios where the current market could end up producing low returns (and therefore be deemed “expensive” in hindsight), and credible scenarios where it could end up producing normal returns (and therefore be deemed “cheap” in hindsight, particularly relative to the alternatives). It all depends on how the concrete facts of the future play out, particularly with respect to earnings growth and the market multiple. That’s why it’s often best for investors to just go with the flow, and not fight trends based on tenuous fundamental analysis that will just as often prove to be wrong as prove to be right.

With respect to the market’s current valuation and likely future return, let’s dispassionately examine some of the possibilities:

**Possibility #1: Moderately Bullish Scenario**

The increase in profit margins that we’ve seen from the mid-1990s until now is retained going forward. The increase doesn’t continue, but it also doesn’t reverse. On this scenario, the market’s return will be determined by the fate of the P/E multiple.

At 19.3 times reported TTM earnings, and 17.9 times operating TTM earnings, the market’s P/E multiple is clearly elevated on a historical basis. But it doesn’t immediately follow that the market will produce poor returns going forward, because the multiple might *stay* elevated.

The most likely scenario in which profit margins hold up is one where the corporate sector continues to recycle its capital into M&A, share buybacks, and dividends, while shunning expansive investment. Generally, expansive investment brings about increased inter-firm competition and increased strain on the labor supply, both of which exert downward pressure on profit margins. In contrast, capital recycling that successfully displaces expansive investment tends to bring about reduced inter-firm competition and reduced strain on the labor supply, both of which exert upward pressure on profit margins. The latter point is *especially* true of M&A, which has the exact *opposite* effect on competition as expansive investment.

In a low-growth, low-investment, high-profit-margin world, where incoming capital is preferentially recycled into competition-killing M&A and float-shrinking share repurchases rather than deployed into the real economy, interest rates will probably stay low. The frustrated “reach for yield” will remain intact, keeping the market’s P/E elevated (or even causing it to increase *further*). If the market’s P/E stays elevated, there is no reason why the market can’t produce something close to a normal real return from current levels — a return on par with the 6% real (8% to 10% nominal) that the market has produced, on average, across its history. Relative to the opportunities on offer in the cash and fixed income spaces, such a return would be extremely attractive.

Now, even if the current market — at a TTM P/E of 19.3 times reported earnings and 17.9 times operating earnings — is set to experience multiple contraction and lower-than-normal future returns, it doesn’t follow that the market’s current valuation is wrong. The market should be priced to offer historically low returns, given the historically low returns that cash and fixed income assets are set to offer over the next several decades. Indeed, if the market were *not* currently priced for historically low returns, *then* something would be wrong. Investors would *not* be acting rationally, given what they (should) know about the future trajectory of monetary policy.
Possibility #2: Moderately Bearish Scenario
The increase in profit margins is not going to fully hold. Some, but not all, of the profit margin gain will be given back. On this assumption, it becomes harder to defend the market’s current valuation.

Importantly, sustained reductions in the profit margin — as opposed to a temporary drop associated with recession — tend to occur alongside rising sales growth. In terms of the effect on EPS, rising sales growth will help to make up for some of the profit that will be lost. However, almost half of all sales growth ends up being inflation — the result of price increases rather than real output increases. With inflation comes lower returns in terms (the only terms that matter), and also, crucially, a tighter Fed. If the Fed gets tighter, a TTM P/E of 19.3 will be much harder to sustain. The market will therefore have to fight two headwinds at the same time — slow EPS growth due to profit margin contraction and a return drag driven by multiple contraction. Returns on such a scenario will likely be weak, at least in real terms.

But they need not be disastrously weak. In another piece, I argued that returns might end up being 5% or 6% nominal, or 3% or 4% real. Of course, that piece assumed a starting price for the S&P 500 of 1775. Nine months later, the index is already at 2000. The estimated returns have downshifted to 3% or 4% nominal, and 1% or 2% real. Such returns offer almost no premium over the returns on offer in the much — safer fixed income world, and therefore, if any kind of profit margin contraction is coming, then the current market is probably pushing the boundaries of defensible valuation.

Possibility #3: Aggressively Bearish Scenario
Profit margins are going to fully revert to the pre-1990s average. On this assumption, the market is obscenely, outrageously expensive. If, at a profit margin of 9% to 10%, EPS comes in at $103.5, and if profit margins are headed to the pre-1990s average of 5% or 6%, then the implication is that EPS is headed to around $55 (a number that will be adjusted upward in the presence of sales growth and inflation — but only as time passes). Instead of a historically elevated TTM P/E of 19, the market would be sitting at a true, normalized TTM P/E of around 36.

Obviously, if margins and earnings were to suddenly come apart, such that the S&P at 2000 shifts from being valued at 19 times earnings to being valued at 36 times earnings, as opposed to the “15 times forward” that investors think they are buying into, prices would suffer a huge adjustment. If the shift were to happen quickly, over a short number of months or quarters, the market would almost certainly crash.

But even if the shift were to happen very slowly, such that EPS simply stagnates in place without falling precipitously, real returns over the next decade, and maybe even the next two or three decades, would still end up being very low — zero or even negative. The profit margin contraction would eat away at real EPS growth, as it did from the 1960s until the 1990s. Even nominal returns over various relevant horizons might end up being zero or negative.

Possibility #4: Aggressively Bullish Scenario
Profit margins are going to continue to increase. Now, before you viscerally object, ask yourself: Why can't that happen? Why can’t profit margins rise to 12% or 14% or even higher from here? The thought might sound crazy, but how crazy would it have sounded if someone were to have predicted, in 1992, with profit margins at less than 4%, that twenty years later profit margins would be holding steady north of 10%, more than 200 basis points above the previous record high?

If profit margins are set to continue their upward increase, then the market might actually be cheap up here, and produce above average returns going forward. The same is true if P/E multiples are set to continue their rise — a possibility that should not be immediately dismissed. As always, the price of equity will be decided by the dynamics of supply and demand. So long as we continue to live in a slow growth world aggressively backstopped by ultra-dovish Fed policy, a world where investors want and need a decent return, but can only get one in equities, there’s no reason why the market’s P/E multiple can’t get pushed higher, to numbers above 20 or even 25. It certainly wouldn’t be the first time.
Going forward, all that is necessary for such an outcome to be achieved is for investors to experience a re-anchoring of their perceptions of what is “appropriate” — to become more tolerant and less viscerally afraid of those kinds of valuation levels. If the present environment holds safely for a long enough period of time, such a re-anchoring will occur naturally, on its own. Indeed, it’s occurring right now, as we speak. Three years ago, nobody would have been comfortable with the market at 2000, 19 times trailing earnings. People were acclimatized to 12, 13, or 14, as “reasonable” multiples, and were even seriously debating whether multiples below 10 were going to become the post-crisis “new normal.” The psychology has obviously shifted since then, and could easily continue to shift.

As for me, I tend to lean towards option #2: a moderately bearish outcome. I’m expecting weak long-term returns, with some profit margin contraction as labor supply tightens, and some multiple contraction as Fed policy gets more normal — but not a return to the historical averages. Importantly, I don’t foresee a realization of the moderately bearish outcome any time soon. It’s a ways away.

I expect the market to eventually get slammed, and pay back its valuation excesses, as happens in every business cycle. If this occurs, it will occur in the next recession, which is when valuation excesses generally get paid back — not during expansionary periods, but during contractions. The next recession is at least a few years away, maybe longer, and therefore it’s too early to get bearish. Before sizeable recession becomes a significant risk, the current expansion will need to progress further, so that more economic imbalances are built up (more misallocations in the deployment of the economy’s labor and capital resources), excesses that provoke rising inflation, and that get pressured by the monetary policy tightening that occurs in response to it.

In the meantime, I expect the market to continue its frustrating and painful grind higher, albeit at a slower pace, offering only small pullbacks in response to temporary scares. Those who are holding out for something “bigger” are unlikely to be rewarded any time soon.

Given the headwinds, I think the long-term total return — through the end of the current business cycle — will be around 1% to 2% real, 3% to 4% nominal. Poor, but still better than the other options on the investment menu. An investor’s best bet, in my view, would be to underweight U.S. equity markets in favor of more attractively priced alternatives in Europe, Japan, and the Emerging Markets.

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