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The Explosion of Bitcoin

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From Wall Street Journal articles and editorials in Barron's, to Facebook posts and holiday dinner conversations, Bitcoin is everywhere. This is not surprising when you consider Bitcoin's exponential growth in 2017. In a year where the market saw new highs, one of the top performing mutual funds returned 105.73 percent¹, and a top performing stock in the S&P 500 saw 132.3 percent growth (NGR)², Bitcoin's growth made these all pale in comparison. (**S&P 500 Index** is an unmanaged group of securities considered to be representative of the stock market in general. You cannot directly invest in the index.) Up 1,390.0 percent in 2017³, we feel that Bitcoin's performance and proliferation is unquestionable.

This growth prompted financial institutions to stop and pay attention. Derivatives trading on Bitcoin started in October 2017.⁴ Then in December several exchanges started offering future trading on Bitcoin⁴, and the NYSE filed with the SEC to list Bitcoin ETFs⁵. Possibly the only thing growing faster than the services surrounding Bitcoin, is Bitcoin itself.

The Basics

Say you're hungry and feel like ordering a Subway sandwich, or want to book a week of travel on expedia.com. Pull out your credit

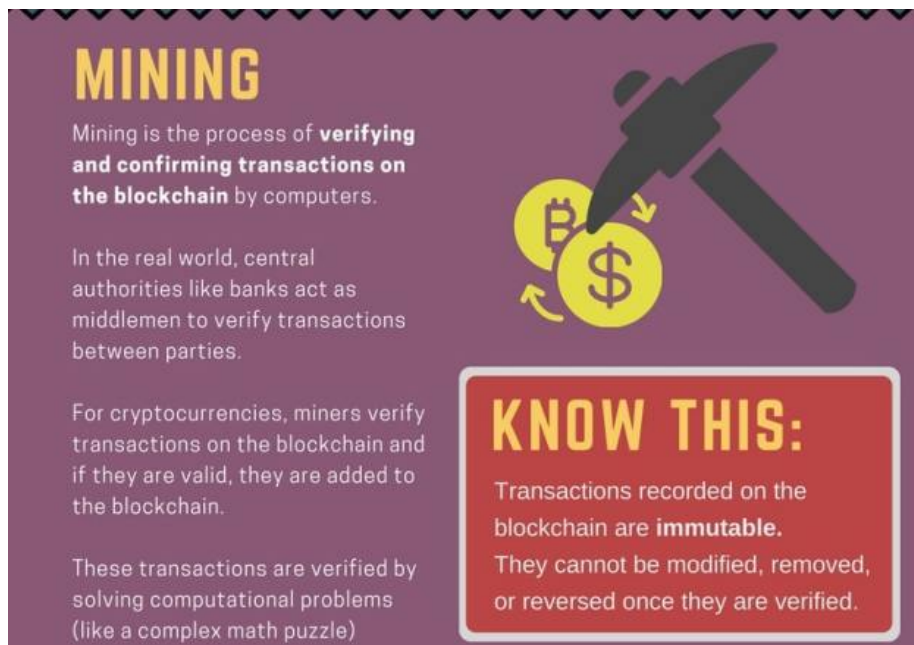
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card, enter all your personal information into their site and hope no one steals the information you just put out onto the web. Subway and Expedia must wait for the credit card company to process the payment, take a 2-3 percent cut, and eventually transfer the money. Or you could decide to pay with Bitcoin, a digital currency that utilizes thousands of computers around the world to verify that a secure transaction is taking place, and processes it quickly. Before getting too much further into the potential of Bitcoin, it's best to take a step back and start with the basics. The first thing to understand is the underlying technology, blockchain. Blockchain can be viewed as a ledger where each transaction is recorded, along with all previous transactions. This creates an accounting chain that records the history of all payments between people who utilize this ledger. To do this, a computer program takes every transaction and creates a specific code. Those exact transactions will always create that one specific code, but if any transaction is changed, the code will be completely different. All other computers connected to the blockchain are able to enter the same transactions and generate the same code. This is how the technology ensures no one can manipulate transactions or ownership history, as their code would be different than everyone else's. This process of creating the code is expensive and time consuming, and the people conducting this process, called miners, are rewarded with a "coin" for their efforts. Miners are then able to use this coin, or cryptocurrency, in exchange for goods or services like those mentioned above.



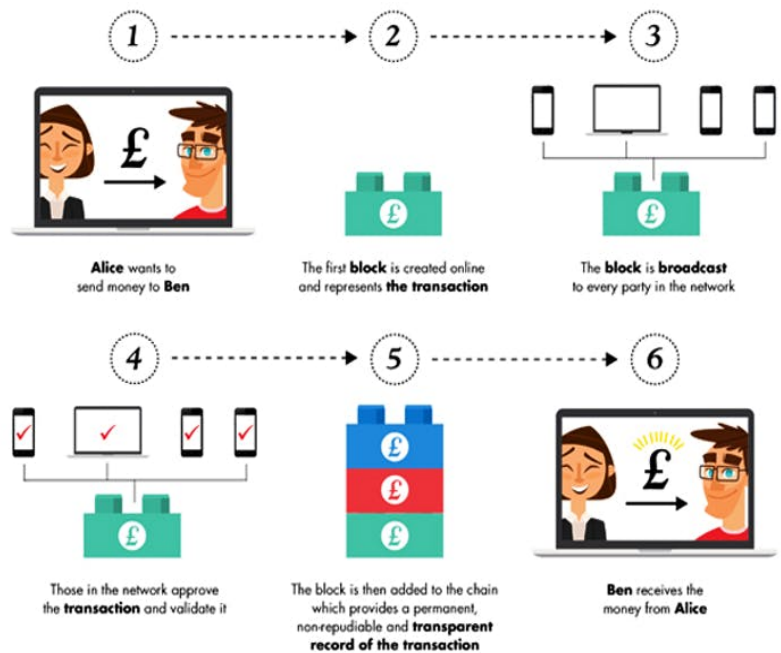
Source: <https://www.spectator.co.uk/2017/05/blockchain-an-investors-guide/>

What does this mean?

This technology brings the potential for new and interesting capabilities. Blockchain allows for the ability to prove ownership of a digital asset. This opens the door to digital currency that can possess value, as it can no longer be digitally copied or reproduced by others. Digital currency opens the door for globalization of money movement with minimal friction:

- The speed of transferring assets can increase; fees and costs could decrease as fewer middlemen are involved in transactions.
- Political and corporate influence could be minimal. No entity has control over the currency because this ledger is not stored or managed by one entity, but rather it's stored around the world.
- Certain cryptocurrencies (e.g., Ether/Ethereum) also open the door to "Smart Money", or programmable money. Complex contracts can be created with automatic payments when terms are met.

While this may sound like the budding of a new asset class and the chance to get in on the ground floor of cutting-edge technology, there are still several concerns that give investors pause. First, the infrastructure and widespread acceptance isn't in place yet to allow the frictionless transactions hypothesized above. Many users still experience delays or must rely on complex solutions to transfer assets.⁶ Uncertainty surrounding potential regulatory or legal hurdles give investors pause. There is also an association between cryptocurrencies and the sale of illegal goods. Its use on the illegal goods website "Silk Road" still leave many wary of cryptocurrencies' legitimacy.⁷ The final hurdle for many investors is how to value such a complex and new technology. Traditional methods for determining what a stock is worth does not work for evaluating blockchain, Bitcoin or other cryptocurrencies.



Source: <https://bitcoinexchangeuk.com/blog/ethereum-news/the-ultimate-beginners-guide-to-cryptocurrency-tokens/>

Is it appropriate for a retirement plan?

Now armed with this information, the question arises, "Should I offer this in my retirement plan?" For now the answer is: No. You are bound by the fiduciary responsibility to select and monitor appropriate investment options for plan participants. The vast majority of participants do not have the knowledge or expertise to make an informed and prudent allocation to this sector. For the same reason you wouldn't offer currency exchange rate investments within your plan, offering a Bitcoin focused option is far too specialized for the vast majority of participants. This type of offering would drastically increase fiduciary risk and liability. Second, the volatility that is seen in the sector can lead to a bumpy participant ride and poor participant outcomes. Often participants are overly risk averse and when account values drop, we can see a flight to safety. This flight to safety is often a hindrance to the long run retirement readiness of participants. Bitcoin valuations are very volatile, and this could significantly hinder participant outcomes. Drops of 30 percent were not unheard of in 2017.⁸ In November, Bitcoin's price fell more than \$2,000 (approximately 20 percent) within one trading day, half of which it lost in the matter of 10 minutes.⁹ This level of volatility is not the ride you want for your participants. They do not have the ability to exit positions during these wild swings, and steep losses can drive participants away from appropriate asset allocation.

While the innovative technology and recent returns can make this an exciting story to follow, wild valuation swings and uncertainty on a number of fronts make it clear: with regard to your retirement plan, it's best to watch from the sidelines for now.

¹Morningstar

²Seeking Alpha. Best and Worst Performing S&P 500 Stocks in 2017. 2017. <https://seekingalpha.com/article/4134576-best-worst-performing-s-and-p-500-stocks-2017>

³Cointelegraph. 2017 Market Performance: Crypto vs. Stocks. 2018. <https://cointelegraph.com/news/2017-market-performance-crypto-vs-stocks>

⁴CNBC. The bitcoin futures race is on. 2017. <https://www.cnbc.com/2017/12/04/the-bitcoin-futures-race-is-on.html>

⁵CNBC. NYSE files to list bitcoin ETFs, bringing cryptocurrency a step closer to mainstream. <https://www.cnbc.com/2017/12/20/nyse-files-to-list-bitcoin-etfs-bringing-cryptocurrency-a-step-closer-to-mainstream.html>

⁶Hash Power – A Documentary on Blockchains & Cryptocurrencies, Patrick O'Shaughnessy, CFA. 2017.

⁷Wikipedia. *Silk Road (marketplace)*.

⁸Fortune. *5 Big Bitcoin Crashes: What We Learned*. 2017. <http://fortune.com/2017/09/18/bitcoin-crash-history/>

⁹Fortune. *Bitcoin's Price Swings Have Been Especially Crazy in the Last 24 Hours. Here's Why*. 2017. <http://fortune.com/2017/11/30/bitcoin-9000-price-plunge-recovery/>



About the Author, Ryan Hamilton

Ryan works closely with advisors and plan sponsors on investment due diligence and in-depth analysis of manager performance and platform and provider benchmarking. Prior to joining RPAG, Ryan worked for a third-party administrator as an associate administrator managing annual compliance for defined contribution and defined benefit plans. He earned a Bachelor of Arts degree from UCLA and is a CFA Level II Candidate.

Stock Markets Just Started Looking Normal Again. Is that a Good Thing?

The last few weeks proved that stock market volatility really never went away, even if it was forgotten. With the S&P 500 dropping more than 7 percent at in the first week of February¹, it is important to remember that these types of events occur in the stock markets annually, if not even more frequently. We believe any loss by investors over this period is dwarfed by the returns achieved in 2017 and the beginning of 2018. While that still may be the case, the most recent drop, while unsettling, is completely normal when put into the context of the stock market's history. Some may argue that the most recent bout of volatility is a good one because markets have run too far, too fast.

Keep in mind that the recent drop and volatility does not even count as a stock market correction. Stock market corrections are generally considered to be drops of more than 10 percent. Our research shows that stock market corrections are not rare, so it would not be unusual to see the stock market drop further and get us into that territory. The potential threat of rising rates and inflation is certainly enough to stir some panic where none has been in the recent past. Any short-term volatility, however, should not make us lose sight of why we are invested in the stock market in the first place.

Over the long term, the stock market is still one of the largest wealth creators there is. Because stocks are risky, your exposure to the stock market, of course, should vary. These moments serve as good opportunities to take stock (no pun intended) of your portfolio and its exposure to stocks. Be sure your risk preferences are aligned with your goals. If the most recent stock drop was a little unsettling, then maybe a more conservative or moderate approach is the right one for you. Stock market volatility is not going away, it is just back to where it always was. That, is a good thing.

¹CNBC. *Why haven't the markets been halted amid this plunge? They haven't fallen enough*. 2018. <https://www.cnn.com/2018/02/02/the-dow-is-tanking-but-why-havent-the-markets-been-halted.html>



Participant Corner: Financial Wellness Series — Cryptocurrency 101

This month's employee memo is a crash course on the elusive bitcoin cryptocurrency. Download the memo from your Fiduciary Briefcase at fiduciarybriefcase.com.

CryptoCurrencies, Blockchain, Hash Generator, BTC, Ethereum.... If you weren't sure if this was English, you are not alone. While Bitcoin is one of the biggest stories in today's world, many still don't understand what it is or how it works. To try and demystify this complex topic that has cemented itself within the daily news cycle, we have broken down some of the most commonly used jargon from this new technology:

Blockchain- a shared database, often viewed as a ledger, where the summation of all transactions in the network are recorded.

Node- A computer connected to the blockchain network who, jointly with all other nodes, maintain the blockchain

Miner- Special nodes where the computer does complex computations to compete to be the one who creates the next block (entry) in the blockchain. They are rewarded when their computer is the one who is able to create the next block.

Coin- The reward for being the miner who completes a block often takes the form of a coin or token. Because this coin can be hard to earn, some view it to hold value and so it's called a cryptocurrency. It's secured through a key (password/identifier).

Bitcoin (BTC) – Largest cryptocurrency by market cap.

Ether (ETH) – Next largest cryptocurrency. It is the reward/currency on the blockchain Ethereum. It differentiates itself through the ability to use "Smart contracts" or programmable money that automatically transacts or transfers ownership when agreed upon conditions are met.

Now the next time you hear the word Bitcoin on your nightly news or it appears on your newsfeed, the jargon won't be so intimidating. While Bitcoin and blockchain are exciting developments in technology, they are still in their infancy. Many are uncertain about the future of the technology and what regulations or pitfalls may await. Also due to its unusual nature, valuating such an asset has proved difficult as can be seen by its drastic price movements. Much of the current discussion regarding this technology is speculation of what it may be and how it may be used.

Will I see Bitcoin as an investment option in my employer's retirement plan?

For now the answer is: No. The vast majority of participants do not have the knowledge or expertise to make an informed and prudent allocation to this sector. The volatility that is seen in the sector can lead to a bumpy participant ride and poor participant outcomes. This level of volatility is not the ride you want.

Past Performance does not guarantee future results.

Investing involves risk, including risk of loss.

Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, or economic developments.

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