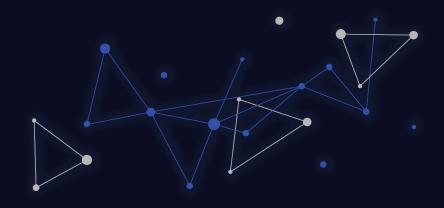


Fasanara Capital | Scenarios

DIGITAL FUTURE

Use of Digital Technology to Build Resilient Portfolios. Going Beyond 60/40 Traditional Asset Allocation



FOREWORD AND CONTENTS

60/40 Portfolios have been the safe harbour of institutional investors for decades, their steady state. For decades, they have exhibited much better riskadjusted returns than both Equity and Bond pure-plays; displaying only marginally lower returns than pure Equity long-only, for a fraction of the volatility.

However, in the next 10 years, Bonds are unlikely to save the day during Equity market storms. After a 40+ year rally, Bonds hit the zero bound on interest rates, now even in the US, and any price increase from here is mathematically compromised. If another Dot-Com Bubble Burst, or if another Lehman, February 2018, March 2020 event were to occur, the loss for balanced portfolios would be far greater than back then. Largely, this is a byproduct of the **market fragility** crafted by a decade of relentless interventionism from Central banks and forceful manipulation of price discovery on publicly traded assets. It spiralled positive feedback loops across the market system (from excess risk taking and leverage, to accept no covenants / no collateral when lending, to Buybacks mania, IPOs frenzy, retail trading fever pitch), sending the market into a far-from-equilibrium state. 2020 will go down in history as the supreme testament to Central Bank omnipotence over markets: financial markets

performance VS performance of the economy.

At the same time, the risk of **equity drawdowns** is greater than ever, given (i) valuations at all-time record highs and (ii) a narrow market leadership where few stocks account for all of the gains and 30%+ of market cap. Drawdowns kept increasing in magnitude over the last few years, while shortening in tempo (flash crashes), to reach earthquake-sized--shaped moves in 2020. Further, faster, larger **gap downs** seem baked in the cake, owing to a chronic state of inherent, profound market fragility.

What can be done to protect portfolios in the decade to come and what can be added to the flawed 60/40 mix? Gold? Bitcoin? Private Assets? CTAs as crisis alpha? Long volatility as an asset class? Here below we propose Fasanara's alternative asset class: the extensive use of technology in both **Digital Lending** and **Digital Assets**, which harnesses novel investment tools born out of technological progress and digital disruption in financial services and payments. Here's to a promising Digital Future!

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CONTENTS

I. The 60/40 Portfolio Steady State System Is Broken

- Bonds Are Obscenely Expensive, No Longer Able to Hedge Equities
- Equities Are Obscenely Expensive, Likely to Exhibit Large
 Drawdowns
- False Diversification Leads to Profound Portfolio Fragility
- What Can Be Done to Pursue Financial Resiliency in 2021

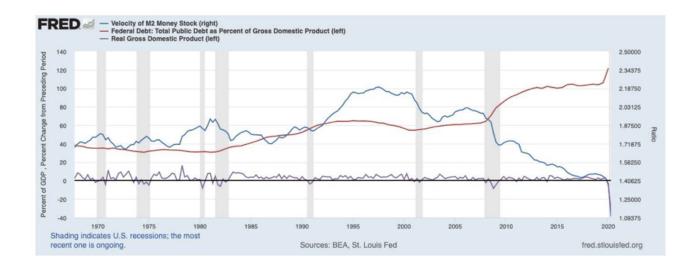
II. Digital Future

- Digital Lending:
 - Platformification of Credit & Banking
 - FinTech Opening Up New Capital Markets for Real Economy
 - Embedded Finance & FinTech Ecosystems
- Digital Assets:
 - The New Currencies, Private & Public
 - Bankless DeFi Ecosystems
 - Volatility and Inefficiency Are Monetizable to Generate
 Uncorrelated Returns

The 60/40 Portfolio Steady State System Is Broken

After a long run spanning over several decades, the 60/40 default state has reached its terminus. It was followed by most participants of the institutionalised asset management world. It is now unsustainable. Empirical evidence for it is overwhelming.

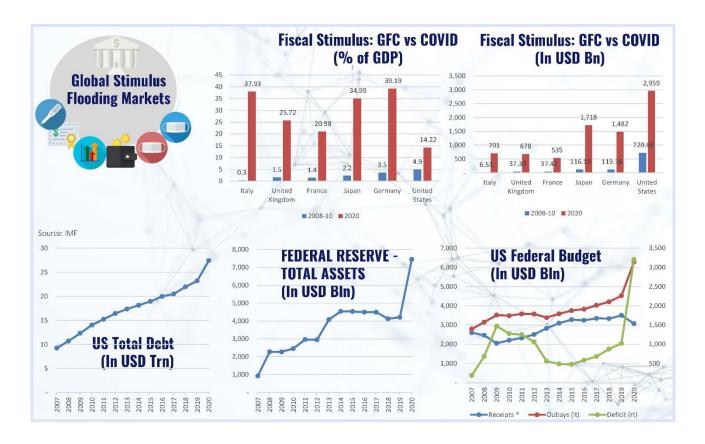
The first forensic evidence for this is the sheer magnitude of money printing the system got addicted to, and the inability for it to perpetuate endlessly into the future. MMT theories think differently but, crucially, the marginal effectiveness of new units of credit is already at or below zero across major economies. Money multipliers and velocity of money have collapsed over time. No wonder many market participants – and people in general – have lost trust in the system, and seek supply-constrained, ownerless, open-source alternatives (no shortage of arguments and data points for this narrative).



Since the beginning of the COVID crisis alone, the G10 major econ0mies have injected a whopping \$15 trillion overall in monetary and fiscal stimulus measures. This includes an increase in central bank balance sheets since the crisis erupted, new government cash injections and spending pledges, as well as about \$7 trillion worth of quasi-fiscal loan and credit guarantees.

But the largesse predates 2020. Really it can be traced back to the Global Financial Crisis. In the US alone, the mothership of global financial markets, increases in the Fed's balance sheet added to the US Government's budget outlays, deficits, and US total debt. All increased in unison over the period to then blow up in 2020.

To those arguing that the equity rally is sustainable on strong economic fundamentals to materialise in the years ahead (as the vaccines take hold), the following overarching questions remain: what about the 20+ trillion that got us here? What about yields at



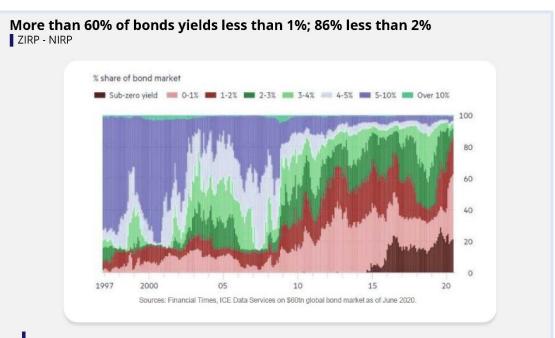
Source: *IMF-Fiscal Monitor Oct 2020 (Data as of 11-Sep-20); World Economic Outlook Database - Oct 2020; World Economic Outlook Database - Oct 2020*

zero, mechanically forcing investors into nearby asset classes? Is that real demand and real price discovery / fair value? How much of today's prices of bonds and equities is attributable to that? How much of the 20+ trillion is replicable in the future? At what marginal effectiveness? If so, what breakeven escape velocity and inflation is needed to get us out of the deep hole?

Further excruciating dilemmas include: how do we know how much printing is enough? How much divergence between the real economy and financial markets is sustainable? And, what happens if we are near a tipping point in both?

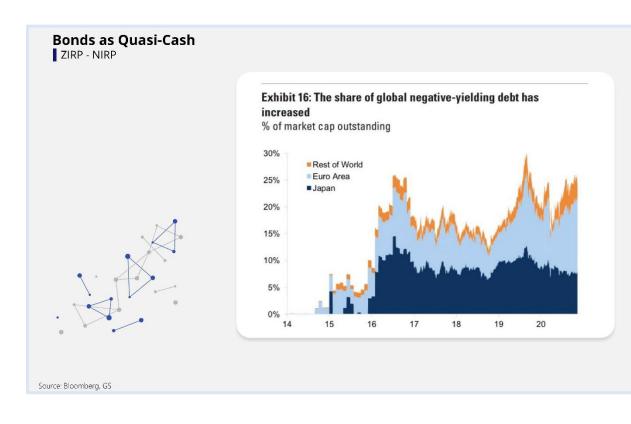
The second piece of evidence is pure mathematics for the largest asset class on the planet: Bonds. The price of a bond is inversely correlated to its yield. The yield is (was) floored at zero. When the yield is zero, duration equals maturity, and is the longest possible. When the yield is below zero, the bond still pulls to par - inevitably - at maturity, meaning that the negative yield is nothing more than a tax – it did nothing to change the mathematics of the instrument. This means that bond prices cannot rally further when yields hit the zero bound of interest rates. They can have moments of glory and momentarily positive mark-to-markets; but those are fleeting gains, paper gains, to vanish as the bond approaches its legal maturity. Except if Central Banks buy those bonds at negative yields, before the pull-to-par. However, this is just a subsidy (and a needless paradox). In other words, a tax first, a subsidy later, the illusion of a

profit, the mirage of an asset class, the wishful thinking of an entire investor base. All in all, a giant paradox. To heavily regulated investors, still a good return of capital (ROC); however, from a risk management perspective, the greatest failure of the theory, a catastrophe of a position with the largest negative convexity. An oxymoron to a rational investment decision.



NO BOND WORLD

Lack of compelling alternative yield solutions, with investors often forced to take either duration (long-dated assets), illiquidity (private assets) or tail (structured products) risks.



None of this is new - we have drawn in zero and negative rates since 2016 - but it is always worth reminding ourselves of its lunacy and futility. None of this is to say that zero-ish rates will disappear tomorrow. In fact, they will likely last for years to come. The point is to stress **the inadequacy of 60/40 balanced portfolios, unfit for today's markets, reminding us how they have moved from being safe harbours of capital to time bombs**. Akin to the anachronism of swords in modern warfare.

Globally, 90% of the bond universe yields less than 2%, 70% less than 1%. To a sober mind, these are dramatic figures.

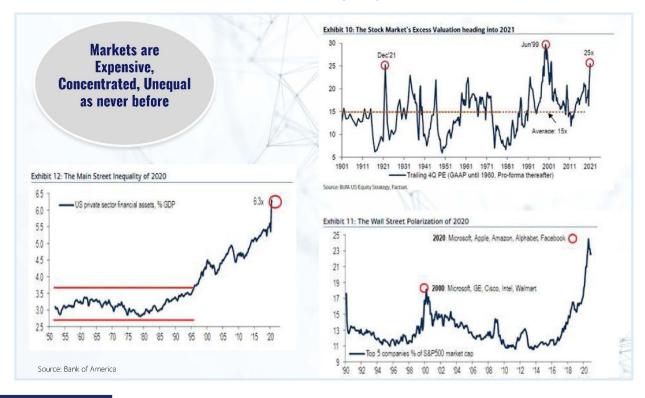
If you are holding a long-dated Nestle bond as a safe haven asset, in the hope that it will help ameliorate portfolio performance during an equity drawdown, you are setting yourself up for a rude awakening. A simple 1% move up in interest rates will wipe out almost 20% of its value.

Possibly more than you lost on the equity part of the portfolio during that specific drawdown. Did you hold the bond for the income it generates then? Not really, the yield is zero-ish.

On equities, there is no shortage of evidence that current equity valuations are merely driven by Central Bank liquidity injections and government fiscal stimulus, both

	Nestle	edf
	NESTLÉ SENIOR BOND (ISIN: XS2263684933))	EDF SENIOR BOND (ISIN: FR0013465424)
DEBTOR	NESTLÉ FINANCE SA	EDF SA
CURRENCY	EUR	EUR
TENOR	20y (2040)	29y (2049)
MODIFIED DURATION	19 years	22 years
PRICE IF INTEREST RATES ↑ 100bps	-17%	-19.6%
SENIORITY	Senior Unsecured	Senior Unsecured
ANNUALIZED IMPLIED YIELD	0.3%	1.4%
Sources: UBP, Bloomberg Finance L.P. Past performa	nce is not a guide for current or futures resu	Its. For illustration purpose only.

Markets Conditions going into 2021



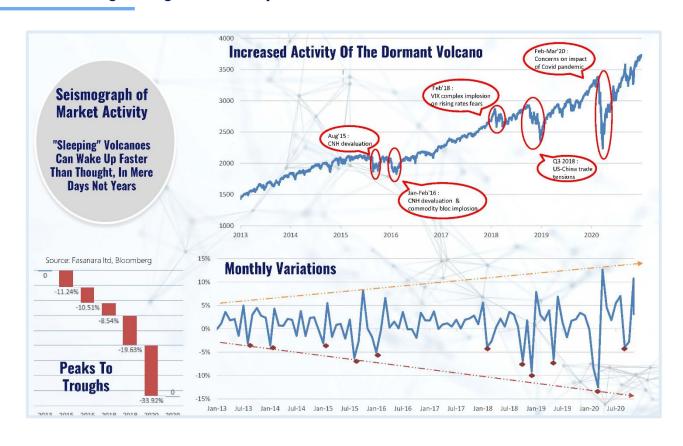
reaching biblical proportions in 2020. Valuations are merely ornamental, episodic: nobody cares, since long. Unsurprisingly, economic narratives at the margin are handy as always: (i) the technology revolution can justify 9x price performance in just a few months in a world ravaged by a pandemic (imagination factor / it is different this time), (ii) unlimited supply of money printing/MMT holds the promise of eternal bonanza (dream factor / sky is the limit axiom), (iii) hubris has no downside as Central Banks have your back (greed factor), (iv) don't fight the FED (fear factor / FOMO / TINA).

We argue that the current state is not only fragile (built on the thin ice of liquidity momentum), but also unsustainable, as it gives rise to levels of income inequality which are incompatible with the status quo. Nowhere was it more visible than in 2020, where the divarication between stellar financial markets performance (concentrated at the top and with only a handful of players) and dismal real economy performance (affecting the bottom 60%) was in full display. A tipping point may be nearing, when a steep reset in prices and a realignment in societal cohorts becomes inevitable in an effort to stem off political revolution. As we get closer to reaching this redistribution, hefty volatility for markets should be a sober investor's baseline scenario, with no line of defence in bonds to resort to. This is especially painful for institutional investors who must rely on regular income distributions and profit realisations over the lifecycle of the investment: the first are nil at zero rates, the second are uncertain if they are needed during drawdowns. False diversification across balanced portfolios has

disseminated across, making overcompensation to the downside during downturns ever more likely ipso facto exacerbating the magnitude of those expected drawdowns. No wonder the size of drawdowns has been steadily increasing over recent years, while their tempo also fastened, e.g. August 2015, January/February 2016, Feb 2018, Q4 2018, March 2020.

One could say that both bonds and equities are in 'Fugazi territory'. The market system has been degrading for years now, over-extending into a far-from-equilibrium state, where the dynamics of criticality apply. We have long argued that we are going through a critical transition, at the edge of chaos, and that during 'phase transition zone' chaotic conditions apply: markets move little and slowly at first, and then fast and big suddenly, the very definition of chaotic behaviour. Furious eruptions after intermittent periods of illusory peace, within a context of radical uncertainty. The magnitude of variations kept on increasing in recent years, like the patterns of seismic waves preceding an earthquake.

Crisis Times Rising in Magnitude and Speed



Market Economy 2025 Resurrecting from Ashes



These outbursts of volatility are more structural than episodic. The **next crisis** is wrongly assumed to resemble the past ones: 1929's Great Depression, 1987's Black Monday, 2000's Dot-Com Bubble Burst, 2008's Global Financial Crisis. We believe it could be more of a **transformational event**, more comparable to a **1971's End of Bretton Woods -type scenario: a deep break from the status quo, a transition into a new paradigm altogether.** At present, the transformation is taking place in an evolutionary manner: some aspects of the financial system are being gradually tweaked, while other parts are changing exponentially. A point of fracture and nonlinear discontinuity is easily imaginable.

In our recent piece *The Market Economy In 2025: A Visualization Exercise* | *Emergence of New Capital Markets*, we envisioned the novel **capital markets** (FinTech Ecosystems, Platformification) of the not so distant future as a radically different operating environment from the one we are accustomed to with a **different reserve currency system** from the US Dollar: a multiverse of fiat currencies (USD, CNH, XDR), and/or a different setting altogether with digital currencies at the helm, either non-government sponsored (Libra et al, Bitcoin et al, Altcoins) or government-sponsored (Central Bank Digital Currencies), or a combination of all of the above. **Chaos will play a role in determining the end destination**, the random walk of markets and economies past the tipping point / critical threshold of a system long gone into degradation, spinning through the loops of runaway effects.

Digital Future



As we travel towards market catharsis, what can institutional investors do to protect themselves against portfolio volatility in the next decade?

One antidote against transformative markets in disruption is to embrace the novelty itself, embrace the future now. Balanced portfolios can morph into **future-proof**, **techenabled portfolios**, **using technology and innovation to seek resiliency**, **anti-bubble formation**. The digital portfolios of the future are already implementable today and at scale.

We can think of two additions to a classic balanced portfolio that would make it fit for time travel:

Digital Lending

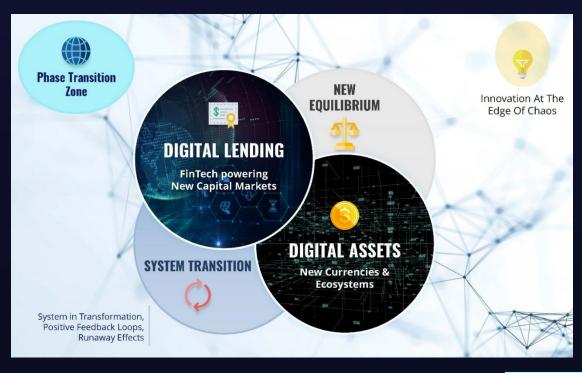
Platform-ification of Credit & Banking;

- the New Capital Markets for the Real Economy;
- Embedded Finance;
- FinTech Infrastructure;
- FinTech Ecosystems

and Digital Assets

- Now Institutional, No Longer a Fluke:
- Legitimate Scepticism Missed Two Key Points: (i) the Unmet Need;
 Lack of Alternatives in the Real
 Economy and
- (ii) the Availability of Sources of Alpha in Trading.

Market System Going Through Critical Transition



Digital Lending,

FinTech Platformification

In the face of chaos and radical uncertainty, policymakers have resorted to throwing the kitchen sink at it, using monetary and fiscal singularity under the clout of COVID. This is unlikely to change any time soon, preventing normal market operations from resuming.

As money flows concentrate further into the largest stocks / asset managers, the byproduct is that capital allocation into smaller worthy projects outside of market
hype will have to happen outside public markets and the traditional
institutionalised asset management industry, through alternative specialist
funding channels (i.e. non-bank lenders and often non-asset managers as well).
Novel and parallel capital markets will keep emerging, as a way for the system to
rebalance itself, away from elitist market bubbles, plugged straight into the real
economy.

We are on the cusp of the deepest, fastest, most consequential disruption to the financial system infrastructure in modern history. The emergence of new capital markets is upon us.

As outlined in our latest scenario report <u>'The Market Economy In 2025: Emergence of New Capital Markets'</u>, we foresee the emergence of a radically different financial system.

While in a not-too-distant future banks will likely be profoundly transformed, banking activity will remain at the centre of economic activity and value creation. A wave of non-bank lenders has already started to fill the funding gap left by traditional lenders exiting less profitable activities to retrench into mainstream markets, and will continue to do so to an ever-increasing extent once the value proposition becomes ever more apparent in the next few years. We are close to reaching a critical threshold in this process, leading to mass adoption of alternative lending solutions.

In this future environment, institutional investors should look beyond traditional, highly overvalued equity and fixed income markets to generate stable, sustainable returns. **Everything is tradable and investable around us**, in this new paradigm and **Digital Lending will be the cornerstone of this structural shift.**

With traditional capital markets failing to allocate capital efficiently, alternative sources of funding are being sought after by the real economy. This demand has

already started to attract supply in the form of data-driven open ecosystems and marketplaces. These **solutions substitute rigid**, **centralized top-down structures** (**such as banks**) for meritocratic, bottom-up markets. New capital markets offer sustainable and especially **resilient funding to the real economy**. This is in stark contrast to the traditional focus on efficiency, ultimately leading to fragility, as seen during the COVID-19 outbreak. The new ecosystem will be accompanied by widespread adoption of the latest technologies and services such as *Embedded Finance*, **FinTech Marketplaces**, Tokenization, Cryptography, **Decentralized Finance** (De-Fi), and **Blockchain**.

These new capital markets, characterised by advanced technologies, new asset classes, and completely new investment opportunities make us excited for the future to arrive soon. In 2025!

Digital Assets

What a year it has been. More than a decade after birth, Digital Assets - the new currencies and their decentralised ecosystems - had a year for the books in 2020.

On the one hand, **adoption and market penetration** grew significantly, thanks to the **vote of confidence from Big Techs and FinTechs**. One watershed moment was in October, when PayPal embraced cryptocurrency by becoming a marketplace for Bitcoin transactions. The Bitcoin community, which had steadily grown to several millions over its 12 previous years, was suddenly increased by 350 million users, virtually overnight. PayPal also enabled 20 million active merchants in the US to accept Bitcoin. Square, a sizeable FinTech digital bank, saw an inflection point in 2020 on Bitcoin revenues, having started trading it in 2018. According to market sources, PayPal and Square clients have been buying most of the new Bitcoin supply entering the market each day: within three weeks of its launch, PayPal clients had bought approximately 70% of Bitcoin's new supply, driving a sizeable surge in prices.

In the **institutional asset management world**, a few known names embraced the trend, with the notable entries of Ruffer and One River, on the grounds of seeking hedges against inflation and monetary disorder. Earlier on in the year, Insurance giant Massachusetts Mutual also ventured into the new asset class. MassMutual said that the investment gives it a "measured yet meaningful exposure to a growing economic aspect of our increasingly digital world." In our view, cryptocurrencies are not necessarily an alternative to gold, nor are they necessarily a harbour against monetary madness. It is our sense that their price likely benefited from the tsunami of Central Banks/Governments' liquidity inundating financial markets indirectly on

account of the laws of communicating vessels, in more ways than one. By the same token, not necessarily the price of cryptocurrencies must increase to celestial levels to prove adoption and success - it is likely but not a necessity. Interestingly though, at times where alpha is hard to extract, the new asset class exhibits traits which are uncommon in today's traditional markets: **inefficiency and volatility**. More volatile than the EURUSD, more inefficient than US treasuries. Both **monetizable** to produce uncorrelated returns/income in liquid formats. A most scarce resource nowadays.

On the other side of the spectrum, **regulation poses the toughest event risk ahead for the nascent asset class**. 2020 saw regulators tackle Ripple (XRP) and BitMEX, after meddling with Facebook's Libra in 2019 and it will likely affect other cryptocurrencies, especially the <u>stablecoin ecosystem</u>, in addition to exchanges and altcoins in the months ahead, and it is definitively a trend to <u>watch</u> most closely for operators in the sector. In parallel, Central **Banks are looking to launch their own versions of digital currencies**, the CBDCs (Central Bank Digital Currencies): Live tested by China on a large scale experiments, theorized and tested by the European Central Bank, the Fed, the Swiss National Bank and the Riksbank, to name a few examples.

Year 2021 will give a clear sense of direction in the race between **adoption rates** and **proposed regulation**.

As we argued in a previous *piece*, **Digital Currencies are not removed from the context of an over-arching global trend of De-Dollarization** that will likely gather momentum in the years ahead thanks to the double hit of China's conflicting interests and the advent of digital technologies. **Soon enough, the US Dollar will be dethroned as the sole global reserve currency, making room for other currencies, either fiat national (CNH, XRD), digital national (CBDCs), digital non-national (Bitcoin et al, Libra et al), or a blend.**

Furthermore, a major shift is taking place **from centralized finance (Ce-Fi) to decentralized finance (De-Fi)**. Ce-Fi is traditional, middle-man orchestrated, finance. De-Fi is the new world of decentralised finance a new digital operating system offering an alternative to the traditional banking infrastructure. Here, financial actors interact directly under the overarching rules of cryptographically enforced computer software. Last summer, we saw a first display of what this ecosystem can offer. In the short span of 3 months, the industry drowned market participants in new lending protocols, derivatives trading, insurance, mom-and-pop market-making liquidity pools and asset management solutions (actively managed by a community voting on investment strategies). This market is currently trading a billion dollars per day, generating millions in fees daily.

Alessandro and Nikita, from Fasanara's Digital Assets team, wrote a review of the crypto market in 2020, available on our portal at this link: *READ HERE*.

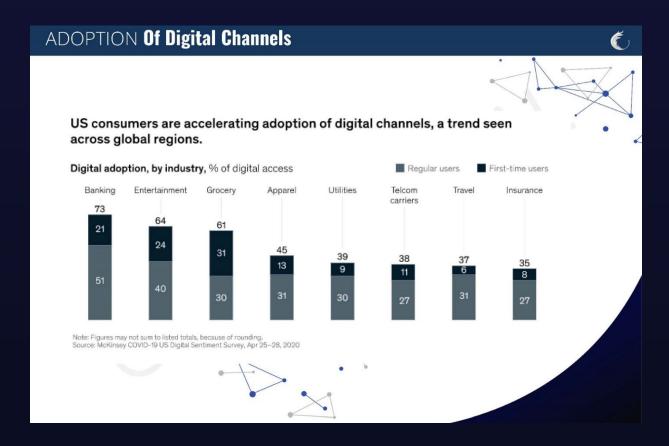
All in all, as FinTech platforms, Embedded Finance, Digital Currencies, Blockchain/De-Fi arise and evolve, the liquidity gap between public and New Age private markets will keep on shrinking, grabbing the full attention of institutional investors in the process.

Digital Speed, Digital Access

Data, storage, algorithms, cloud computing, open-source software are now accessible at scale and at low cost. The era of Artificial Intelligence has begun. If the asset management industry joins in, adopting new technologies to remain relevant, they stand to achieve big gains in quality, speed, autonomy, cost efficiency, transparency and inclusion.

The rapid migration to digital technologies driven by COVID will continue well into the recovery period. But are the portfolios of institutional investors able to keep pace?

The combination of **exponential technologies** - Al/Machine Learning, FinTech ecosystems, Blockchain/DeFi, computational processing power, sensors, Internet of



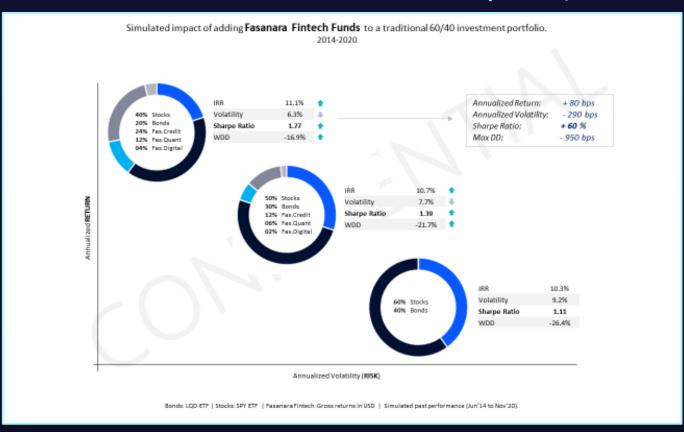
Things, Robotics, AR/Virtual Reality, 3D printing, Web 3.0 - is what enables small teams to experiment and aim at moonshots, democratising access to building the foundations of the market systems of the future. The landscape is changing exponentially and wholeheartedly, and these inventive tools are now available to teams with evolutionary ideas to help shape the **Digital Future**. Financial markets are at the epicentre of the earthquake.

60/40 Digital-Enhanced

Traditionally, alternative strategies are added to classic 60/40 portfolios to improve risk-adjusted performance. Ideally, a true diversifier is a fixed-income type addition, providing income while minimising volatility, in reasonably liquid formats. At Fasanara, we try to do exactly that. Future-proofing institutional portfolios for the next decade, helping to surrogate today's largest deficiency: fixed income.

Before we leave, a cheeky model of a 60/40 portfolio after the inclusion of Digital; Fasanara's special recipe of Digital, of course. The slide shows the improvement in performance per units of risk over the past 6 years. Admittedly, the period covers one big crisis moment only: February/March 2020. We have yet to see how it will navigate the next few, lying in wait.

Fasanara Impact on 60/40 Portfolio

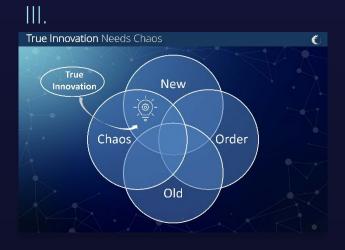


APPENDIX

Please find below a few slides from previous write-ups illustrating Fasanara's approach to the transformational markets we are transitioning through.











PREVIOUS INSIGHTS

from Fasanara Capital

20th October 2020

The Market Economy of 2025: A Visualization Exercise

The Emergence of New Capital Markets for the Real Economy

Excruciatingly day after day, the bites-economy devours the atoms-economy. Allocating capital from rigged-fake markets into a zombie-fake economy has become impossible, as both are ruled by randomness and futility. What then, are we to do, in the endangered species of rational investors? Is there an oxymoron move that makes sense in a senseless context? Further, is there a silver lining emerging from chaos; is a better future lying in waiting after the tumultuous ride ahead? We think so. The market economy of 2020 was entirely predictable. Here below we attempt at visualising the one of 2025.

Read the article: <u>link</u>

22nd October 2019

How to Navigate the Cliff Edge In Markets

New Tools For Flaky Markets In Transition: Introducing The 15-Days EWS indicator

At a time in which bonds are no longer bonds but rather tax bills, and equities are as expensive as washing machines going on auction at 50 thousand dollars, what role is left to play for us rationale investors? At a time when machines dominate 90% of daily trading flows, are pitted against other machines to extrapolate a non-existent alpha, and a passive or quasi-passive true nature infected most brands of investing (ETF, risk parity, risk premia, low vol vehicles, quant funds, CTA, all), what role is left to play for us humans?

Read the article: <u>link</u>

11th January 2019

A Glimpse at 2019

Markets in Critical Transformation, Chaotic Behaviour Has Just Began

Read the article: <u>link</u>

24th February 2020

Helping Blind Navigation in Broken Markets: The Cockpit of Complexity-Based Systemic Risk Alerts

Adding The Short-Wave Earthquake Alert: The 5d ETAS
How do you handle portfolio management in fake
markets, where monetary jiujitsu is relentlessly utilised to
cook the books and rig price discovery? A range of newgeneration tools based on Complexity theory to assist in
tackling an unconventional and unsustainable market
environment

Read the article: <u>link</u>

21st August 2019

Transformational Markets: History Being Made

No-Bond World And The Risk Of A Daily Liquidity Crisis Rates hit new lows this month. Symbolically, the 50-year swap rate in Europe dived into negative territory. Bonds as an asset class are in extinction, a major shift in modern finance as we know it, inadvertently turning 'balanced portfolios' into 'long-equity portfolios'. The 'nocebo effect' of enduring negative interest rates is such that negative rates are deflationary, hence self-defeating. Meanwhile, they have potent unintended consequences for systemic risk, which spreads around, leading the market into an historical trap.

Read the article: *link*

29th April 2019

Cascade Effects in Modern Undiversified Passive Markets

The Ideal Environment for Overnight Gap Risk
While inconclusive, such tools help describe system
degradation in recent years and today concur in framing
systemic risk at high alert status, current market
conditions as profoundly fragile, and in proximity to a
major shift, a system-wide critical transition.

Read the article: <u>link</u>

13th November 2018

How to Measure the Proximity to A Market Crash: Introducing System Resilience Indicators ('SRI')

A big crash will make investors realize how badly they need better ways to understand and track risk.

Read the article: <u>link</u>

11th May 2018

Market Fragility (Part II)

Tipping Points & Crash Hallmarks

Presentation and Video Recording, on Markets as Complex Dynamic Systems and a conceptual framework for rethinking Systemic Risk as a Complexity Problem, in 3 steps: Tipping Point Analysis, Early Warning Signals Analysis, Butterflies Analysis.

Read the article: link

9th July 2018

Analysis of Market Structure: Towards A Low-Diversity Trap

This is the visual story of how the market structure weakened relentlessly in the last ten years, to get more concentrated, entropic-fragile, and ready to snap. We visualize the structure of the market network during good and bad times, trying to isolate the DNA of a market crash.

Read the article: <u>link</u>

10th January 2018

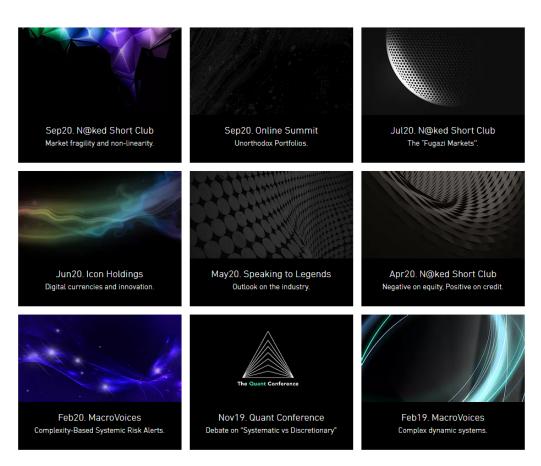
Fragile Markets On The 'Edge of Chaos'

Financial markets are complex adaptive systems, where positive feedback loops undermine resilience and bring to the brink of critical transformation.

Read the article: <u>link</u>

MEDIA







About Fasanara

Fasanara Capital is an independent, owner-managed alternative asset management company authorized and regulated by the Financial Conduct Authority. Co-founded by CEO Francesco Filia in 2011, Fasanara is based in London with alliance offices in Milan.

We offer access to a range of inventive multi-asset capacity-constrained niche products. Fasanara's unorthodox portfolio construction and unconventional investment strategy is a response to today's transformational markets.

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