ABUNDANCE THROUGH SCARCITY

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## Foreword

Human comprehension requires a language humans can understand. But under | the hood, there’s no such thing as non-binary. A computer is just a chain of on- and off switches. It’s just data. But data representing something humans can understand becomes something much more interesting-it becomes information.

The cost of reproducing information is as close to zero as possible, which is valid for almost all digital information. There is, in fact, only one exception to this rule - bitcoin.

Mainstream media outlets call it “solving complicated calculations,” but this is an under-simplification. A miner is guessing a number. That’s it. The number has to match a particular set of criteria, sure, but at the end of the day, it’s all about guessing a number.

We all want bitcoin to succeed and provide us with more purchasing power, and we know that by helping one another, we help bitcoin; in doing so, we also know that by he Moreover, the deflationary nature of bitcoin incentivizes us to adopt a lower time preference, meaning that we allow ourselves to think more long-term.

The longer you’ve experienced bitcoin and other bitcoiners, the more pronounced this seemingly magical aspect of the network becomes. But considering our conclusion that we are the same being, it all makes perfect sense. Something deeply human is going on here. In a sense, all bitcoin did was point out the obvious—that we’d on here. In a sense, all bitcoin did was point out the obvious - that we’d all be better off if we cooperated.

Bitcoin will usher in a new era of human flourishing, and no one can stop this from happening. It is an agreement on a fixed set of rules that computers help us validate.

As Ioni often points out, studying bitcoin is akin to discovering deep meditation or psychedelics - it opens up new pathways in our brains. It lets us see that everything is way more connected than it seems. Once you stumble down this rabbit hole, there’s no going back.

Bitcoin can give the most cynical mind purpose.

A pathway toward truth that neither scientism nor other religious dogmas can provide.

## Prologue

Uniquely among Earth’s species, humans possess the extraordinary ability to conceptualize and manipulate abstract concepts such as mathematics and the digital world. Our exploration of these abstract dimensions has resulted in discoveries that have triggered seismic societal shifts.

Over time, broken money leads to institutional decay, escalating, dwindling populations, and the collapse of societies.

Firstly, we examine the rise and fall of civilizations, considering whether and why our current society may be in decline.

Secondly, we look at the insidious world of voluntary servitude, illuminating the modern-day prisons of cubicles. We then delve into the very fabric of the universe, where absolute scarcity is a fundamental property a property that holds the key to unlocking unprecedented abundance.

Thirdly, we explore the implications of the discovery of bitcoin for the future of our civilization, sketching a tantalizing vision of what 3 that future might hold.

# I SOCIETAL DEVOLUTION

## 1 THE RISE AND FALL OF CIVILIZATIONS

However, some bygone civilizations, such as Rome, have encoded their fingerprints into the fabric of history for posterity to uncover.

The remnants of Roman industry drifted on the winds, eventually settling in Iceland’s frozen lands, etching a geological record that mirrored the empire’s grand narrative.

However, the more recent, shallower layers reveal a decline in these deposits, uncovering the tale of a contracting industry and a waning these deposits, uncovering the tale of a contracting industry and a waning empire-a civilization that once stood tall, now succumbing to decline.

The might of the Roman Empire was upheld by its legionaries, an elite group of soldiers bound to serve for twenty-five years, during which : they were not allowed to marry.

They were known to stand firm against overwhelming odds, embodying the virtues of duty, honor, and loyalty, crucial for maintaining the empire’s peace and justice.

The Roman army’s efficiency stemmed from a well-defined hierarchy and a strict code of conduct, which ensured effective teamwork and and a strict code of conduct

Backbone of the empire, annexed new lands and cultures but also broadened Rome’s trade net works and sphere of influence. The empire’s well-engineered infrastructure seamlessly connected its farthest reaches, ensuring the free flow of ideas, goods, and people.

Equating the daily wage of a skilled craftsman or soldier, the denarius transcended its role as merely a store of value medium of exchange. It was a potent symbol of unity, power, and authority, casting the empire’s vast might and reach in the gleam of silver.

In contrast to the timeless strength of ancient Roman architecture, many contemporary structures deteriorate and crumble within mere decades.

They harnessed technologies that, from today’s perspective, seem almost miraculous. One such example is their development of self healing concrete, capable of mending cracks and maintaining structural ; stability over time. Roman concrete, or opus caementicium, was a durable stability over time. Koman concrete, or opus caementicium, was a durable and long lasting building material that stands as one of their most significant and underrated achievements.

It contains small white minerals called lime clasts, which have been absent from concrete for two millennia.

Researchers discovered that Roman concrete was made by heating a specific type of limestone, a process that released carbon dioxide and produced calcium oxide (a simple, reactive form of lime). This calcium oxide was then mixed with volcanic ash and water, forming a mortar. Over time, this mixture hardened, becoming a key component of the concrete. Within the concrete, lime casts created a fragile structure of nanoparticles that, if cracked, released calcium. This calcium, upon mixing with water, transformed back into calcium carbonate essentially limestone filling any cracks.

The truly captivating mystery, however, is not how they constructed 50,000 miles of road or erected awe-inspiring monuments constructed 50,000 miles of road of erected awe-inspiring monuments like the colosseum. Nor how they revolutionized the world by transcending its primitive origins and laying the groundwork for modern civilization, but rather why they stopped.

### 1.1 THE COLLAPSE OF COMPLEX SOCIETIES

Dr. Joseph Tainter² argues that increasing complexity has been the leading driver for the collapse of ancient civilizations.

Collapse is defined as the rapid simplification of society. Collapse collapse is defined as the rapid simplification over several centuries, this process is rapid compared to the millennia it often takes to reach the pinnacle of its development. In the wake of such disintegration, from the ashes of a complex society once teeming with a myriad of professions and well-orchestrated institutions, there emerges a simpler landscape.

Institutions that survive are shadows of their former selves, struggling to find new purpose are shadows of their former selves

In our quest to understand the complexities behind the rise and fall of great and powerful civilizations, we must also acknowledge the distinct meanings of society, empire, and civilization.

While civilizations can spread over various societies and territories, mirroring the expanse of an empire, they are distinguished by their significant cultural and technological achievements.

Distinct connotations: civilization encompasses the broader cultural and technological milestones of a collective human experience, whereas society refers more to the organizational and relational aspects of human communities.

Structures may address the immediate problem of housing scarcity. They introduce another layer of complexity to urban living. New challenges i Introduce

The singularity crisis represents a state of irreversible societal decline triggered by the exhaustion of a society’s resources. Civilizations naturally oscillate between progress and decline, but when resources are depleted, reversing this decline becomes arduous, causing society to drift toward ever-simpler states.

When new problems are too costly to solve,

Indefinite Progress: Alternatively, if a society successfully navigates the risks of complexity, it can develop into a post-scarcity society, transcending the singularity crisis.

Marginal cost of energy approaches zero, and humanity evolves into a species liberated from the shackles of wage slavery, thriving in a world of limitless potential

Gravitate toward one of two outcomes:

Determining if we are in a state of progression or decline. We also assess whether the progress that has propelled us thus far is now impeding further development. Before we delve deeper into this saga, it’s essential to define “collapse,” a term often misconstrued by popular fiction and Hollywood narratives.

A collapse is not an abrupt, catastrophic event but rather a slow, steady erosion unfolding over time, often spanning centuries.

Almost geologically slow process, those living amidst it may remain completely unaware cally slow process, tying w

Global society follow a trajectory similar to that of the Roman Emp unremarkable continuity of daily life. In the throes of decline, we would experience nothing out of the ordinary. We would experience precise what we experience today.

### 1.2 POVERTY AND DEPOPULATION.

Despite decades of economic and technological advancement, the middle class faces a different reality. Ac.

Omes and have failed to keep pace with inflation, while the cost of living has surged dramatically -

. As poverty spreads, flourishing turns to withering, and child - bearing gives way to mere survival and toil.

To attain a post-scarcity society necessitates a focus on investment and growth rather than mere consumption and conservation

### 1.3 THE 1970S: A TURNING POINT

Since | Our era and generation are not unique in then quest for legacy. To send messages beyond our time.

In Sapiens, historian Yuval Noah Harari describes these handprints, writing, “It looks as if these long-dead hands are reaching out towards us 1 from within the rock. This is one of the most moving relics of the ancient forager world-but no one knows what it means.’ “

Means.” Though their meaning remains elusive, we can envision them as a powerful pro desire to make a mark and forge a lasting legacy.

Handprints represent the oldest shared tradition in human history. Perched atop a Tibetan plateau 13,000 feet above sea level, the most ancient handprints discovered date back an astonishing 200,000 years.

Deliberate artistic act, making it the earliest currently known example of parietal art in the world

Self-reflection when humanity paused to appreciate its accomplishments and dared to dream of its future and the legacy it would leave behind.

The deployment of the James Webb Space Telescope have not only reshaped our understanding of the universe but also propelled us into a new era of exploration and discovery

Formidable specter of societal decline. The expanding gap between the affluent and the impoverished, the degradation of our natural world, along with increasing political polarization and dysfunction are often viewed as evidence of decline. However, beneath these visible signs, a more profound and sinister transformation is at work -a deep-rooted metamorphosis festering at the heart of a society.

Societal decline and economic decay go hand in hand, a feedback loop where each amplifies the other, spiraling downward in a mutually mutually destructive cycle.

### 1.4 FROM SILVER TO SHADOWS

In the dim light of antiquity, the Roman Empire embarked on a relentless campaign of wars, leaving a legacy marred bY bloodshed and ruin.

The Romans stretched their territory and military ambitions beyond their socioeconomic limits, triggering repeated fiscal crises and creating vicious cycle of costs and strain.

Thus, from the ashes of devastation, the Great Fire inadvertently laid the groundwork for modern urban design principles.

Extensive reallocation of resources and the neglect of provincial territories precipitated a decline in the empire’s overall stability, stretching its capacities to the brink and exacerbating vulnerabilities across the realm.

More accurately, money is two things: a shared memory of good and bad deeds in society, and a self-reinforcing social institution. This shared memory acts as a ledger, recording the outcomes of our collective actions, investments, and exchanges, thus embodying the moral and ethical investments, and excl

Becoming indispensable to societal function and progress. S

Money serves as a battery for time.

The globalization of our society has fundamentally transformed the ! The globalization of our society has fundamentally transformed the economy, necessitating a reevaluation or monetary exchange mechanisms across borders and continents. The impracticalities and expenses of transporting gold have rendered it anachronistic in an increasingly connected world economy

The inability to find an effective substitute for the denarius led to its gradual disappearance, a decline that paralleled, ultimately precipitated, the fall of the Roman Empire itself -a reminder that society rises and falls with its money.

2 THE CLAWBACK OF AN EMPIRE

To sustain essential operations like | military service and agriculture, Roman officials implemented drastic measures. Specific occupations, notably farming and military service, became hereditary, binding individuals to their roles. These policies led to a steep increase in taxes, which doubled by 300 CE and again by 364 it CE.

This deepened poverty accelerated the population decline. Sonal needs. This deepened poverty accelerated the selling their children into slavery, unable to support them.

The collapse of a society can a slow, corrosive process, gradually undermining societal structures over centuries.

### 2.1 THE DEATH SPIRAL OF PROGRESS

The military has acknowledged this pattern, terming it the “death spiral.” The death spiral illustrates how mounting complexity, over time, results in skyrocketing costs and diminishing returns. This phenomenon is not exclusive to the military but is a pervasive issue across various research domains, including physics and medicine.

### 2.2 THE PERFECT STORM

#### War and destruction

Today’s battlefields extend beyond land, sea, and air, spilling into the digital realm of cyberspace.

#### Complexity

This complexity is evident in our extreme specialization, interconnectivity, and technology.

#### Our reliance on electricity and the internet.

#### Broken Money

We have forgotten how powerless we are against the forces of decline and how woefully unprepared we stand before challenges that could annihilate society as we know it.

### 2.3 FAILING INSTITUTIONS

The effectiveness of our institutions serves as a barometer of civilizaion’s state

Overregulation preserves the status quo, stifling growth and innovation. Overregulation preserves Liit Status your advance

### 2.4 THE COMPLEXITY-PROBLEM CYCLE

### Each layer of complexity, while bringing solutions, often introduces new challenges, creating a cycle where complexity breeds further complexity. This results in an escalating pattern of intricate and costly problem-solving

### 2.5 THE SINGULARITY CRISIS OF CIVILIZATION

As empires crumble, they lose knowledge, technology culture, and literature

The collective brain of society dissipates, leaving behind a wasteland bereft of intellectual depth.

Electricity, microchips, and the internet, creating a fragile existence. Moreover, in our interconnected world, the failure of one city or system can trigger a domino effect. A global economic downturn or resource scarcity could push our entire civilization to the edge of collapse.

A weakened currency undermines the ability to coordinate resources, manage the workforce, and foster cooperation across regions and time.

The profound silence of the cosmos, as highlighted by the Fermi [ Paradox, might be attributed to the overwhelming challenges of the singularity crisis -a formidable, unseen economic law that ascending civilizations inevitably face. Our civilization stands at a crossroads: either to allow our economy to collapse through currency debasement, leading 3 irreversible decline, or we adopt sound money to advance toward post scarcity.

### 2.6 THE POST-SCARCITY SOCIETY

Consigned to the shadows of our primitive ancestors, forever cut off from our potential galactic cousins.

The choice we make will determine our legacy, either as a brief, forgotten flash in the cosmic timeline or as pioneer settlers in the Milky Way galaxy.

## 3 DUTCH EXPLORERS

Unlike Manhattan real estate, bitcoin has no property tax and it’s completely liquid.

Land area is indeed fixed, but its usable space can be expanded vertically. There’s a ceiling to what people are willing to : pay for property, which can limit demand for real estate.

With limitless demand for money, combined ab mann Axed sur money. Ares With limi tless D manu The – he price of bitcoin is poised to soar indefinitely - phenomenon unprecedented in financial history, and colloquially captured as “Number go up technology” or “It’s going up forever, Laura,” a phrase popularized by Microstrategy CEO Michael Saylor.

### 3.1 UNCHARTED HORIZONS

As Hudson guided the Halve Maen up a majestic river, he uncovered an even greater revelation-an immense, uncharted landmass, unknown to the Western world.

Throughout history, only a few have had the honor of leading such groundbreaking explorations, and it is among this elite group that a deep, enduring bond forms, connecting humanity’s most daring adventurers.

### 3.2 THE AGE OF DISCOVERY

Driven by a relentless thirst for the unknown, set their sails toward distant driven by a relentless thirst for the unknown, set their sans toward dis

# II OUR FINAL CENTURY

## 4 MONEY AND CIVILIZATION

Despite these desperate attempts to delay the inevitable, once caught in the grip of the singularity crisis, no civilization has managed to survive more than a few centuries before facing a complete collapsea severe and irreversible simplification of societal, institutional, and eco- .b nomic complexity.

The cultural narrative complexity, broken money, and depopulation. Ine C F change, eclipsing the threats of economic collapse and depopulation.

### 4.1 THE CENTRAL BANK EMPIRE

Society is caught in a dangerous cultural and political narrative spun around the necessity of central banks.

Murray Rothbard, the late American economist, once remarked, “If, then, taxation is compulsory, and is therefore indistinguishable from theft, it follows that the State, which subsists on taxation, is a vast criminal organization far more formidable and successful than any ‘private’ Mafia

### The dollar is a weapon of mass control.

### 4.2 THE ORIGIN OF FIAT MONEY

### 4.3 MONEY OUT OF NOTHING

Many believe, myself included, that the fiat monetary system will continue to debase its currencies and become an increasingly insidious technologY for transmitting and storing value.

Consequences of rampant money printing are severe: diminishing the value of savings, favoring risky financial gambles over genuine economic progress, funneling wealth to the elite, and sowing chaos in the financial markets .

Normally, cells have a lifecycle that ends either by damage or by а programmed suicide called “apoptosis.” A

Threatening to undo the host organism in a relenues&gt; | their very immortality- Life, in a sense, is paradoxically and poetically dependent on death.

This mechanism has allowed the central banking system to grow into the most influential financial empire ever known, unmatched by any other ‘} entity.

Rather than confront the addiction to creating money at no cost, they sidestep accountability, offloading the consequences onto the unborn. Yet, there’s a flicker of hope on the horizon: the advent of incorruptible cybercash offers a potent instrument to heal the economy and liberate us from the chains of fiat dependency.

It’s a mind-expanding psychedelic, empowering society to transcend the addiction to cheap credit and transform the economy from the ground up.

### 4.4 THE FIAT ADDICTION

This cycle of solving money-created problems by introducing more money into the system isn’t just counterproductive-it’s human stupidity at its finest.

### 4.5 THE AILING SOCIETY Over time, regular administration o QE creates a growing tolerance, where society demands ever-increasing amounts of cheap credit to sustain not just economic stability but the very fabric of society itself,

But hard money is more than the methadone to the world economy’s opioid addiction; it’s the catalyst for a profound awakening, the heroic dose of psychedelics that opens your eyes to the matrix.

In a mind-expanding journey, bitcoin leads you onto a path of unchained passion for creation, legacy, and life.

#### Weaponized Morality

This pursuit of moral absolutism threatens to erode the pillars of our culture, education, the arts, and free speech-leaving in its wake a barren echo of what once flourished.

#### Broken Money.

This debasement of currency didn’t just weaken Rome’s economy; it struck at the heart of public trust, eroding the empire from within.

## 5 THE FIAT MIND

## David Eagleman, in The Brain, likens schizophrenia to our dream states spilling into waking life.

Their reality blurs dreams, their inner and outer worlds indistinguishable, creating a Kafkaesque nightmare.

Both schizophrenia and the fiat economy sur rom a critical issue: an inherent inability to recognize their own disorders

In a schizophrenic episode, it doesn’t strike the patient that something is strange. Why? Because they believe the narrative told by the sum of the brain chemistry.” -David Eagleman

Under a fiat standard, companies, governments, and misguided investments drain the economy’s vitality, contributing nothing real to growth, feasting yet leaving the table bare.

### 5.1 ECONOMIC DERANGEMENT SYNDROME

#### THE DANCING MANIA OF THE MIDDLE AGES

### In the shadow of the Black Death, which claimed 200 million lives from 1346 to 1353, societies crumbled under immense strain.

In this era of loss, fear, and ruin, the dancing mania - emerged a bizarre spectacle where thousands danced in unrelenting frenzy, often until they collapsed from exhaustion or injury.

THE WITCH HUNTS OF THE LATE MIDDLE AGES

Yet, Salem’s story is just one chapter in a broader, darker narrative. Between 1400 and 1782, the witch hunts claimed around 60,000 lives across the United States and Europe, a grim reminder of the deadly power of superstition and fear.

This period in Salem became another episode of mass psychosis, of fear and paranoia that led to the witch hunts, culminating in tragic execution of thousands.

THE RISE OF NAZISM

Hyperinflation not only eroded the currency but also the faith of the people in their government, leaving void that the Nazis were all too eager to fill, with promises of revival and retribution.

Today, we’re engulfed in social unrest marked by cancel culture, deep polarization, rampant consumerism, and a mental health crisis. Our society mirrors the turmoil seen in the Roman Empire’s final days, the Dark Ages of Europe, and the early years of Nazi Germany-a time of profound socioeconomic decay and widespread suffering.

### 5.2 BREAKING OUT OF THE MATRIX

In the shadowy corridors of our global economy, central banks act like financial alchemists, conjuring money from thin air. The rest of us hard to earn a fraction of what banks create for free.

Flight a covert torture Fiat currency scripts a life of constant fight or flight- a covert torture that robs us of peace and our envisioned future. You were born into this virtually inescapable matrix, much like Neo. Trapped in this system, you wake up to someone else’s clock.

Your phone stops being a corporate leash and starts being an extension of your intellect. Vacations stop being breaks from work, i become chances for growth and rest. And money, once a tool of oppression, becomes a tool for pursuing passions and discovering your potential.

## 6 FIAT SLAVERY

### 6.1 SELF SLAVERY

Today, we face invisible whips and chains: mental constraints, the illusion of voluntary labor, and spiritual punishment, with taxes and inflation as our modern shackles.

Societal decline creeps in slowly, unnoticed until the damage is undeniable. Today, we’re seeing the signs: faltering currencies and wages stagnant against increasing living costs. This path leads us to the current state of societal decay-faltering institutions, hunger, homelessness, unrest, and shrinking populations around the world.

As currencies continue to decline, the cost of living climbs, forcing us into a reluctant allegiance to a system that returns little and challenges our very survival

### 6.2 THE MATRIX

Waking up from the fiat delusion can be difficult, as facing the truth of Your circumstances is often challenging.

We’re living in a world where our oppressors are not men with whips, but a system that binds our minds and pockets, sowing discord among those who dare to seek liberation.

“None are more hopelessly enslaved than those who falsely believe they are free Johann Wolfgang Von Goethe, Elective Affinities

Human masterpiece, tirelessly sculpted by generations of human hands.

And every generation has the power to change its contours to reflect their shared desires. We can live as hunter-gatherers in the untouched wilderness or as cybernauts in digital simulations.

The blueprint of society is ours to draft.

Bitcoin, in its essence, is a revolutionary tool to realign our society toward truth, honesty, and enlightenment. Healthy money fosters healthy minds, robust institutions, and, ultimately, a resilient civilization.

## 7 DISCOVERING IMMATERIAL REALMS

Only by learning to read the book of 1 the universe can we understand the realm of possibilities that the universe offers.

### 7.1 THE LANGUAGE OF THE UNIVERSE

Mathematics is the universal language.

Dialects of algebra, geometry, and calculus, leading to some of humanity’s crowning achievements.

### 7.2 THE GREATEST TRICK IN THE UNIVERSE

### The greatest mystery of the cosmos is also its most fundamental: why is there something rather than nothing?

### A humbling truth: the universe is under no obligation to make sense to human beings.

### Ordinary matter makes up only 5% of the universe

### 1990s when scientists discovered that not only is the universe expanding, burt its expansion is also accelerating.

Close examination of anything ordinary reveals the universe’s deep strangeness.

Reality shifts into something almost abstract, an immaterial essence beyond the physical world.

Particles moving in patterns predicted by equations like the Dirac equation, capturing the behavior of quarks and electron

The real twist is this: mathematics doesn’t just describe the universe; it seems to be what the universe is made of. As Penrose notes, “Mathematics is out there, and it seems to have a reality independent of the ordinary reality of things.” It’s as though the universe crafted itself from a cosmic blueprint of numbers and equations, a world beyond the tangible.

This realization is as profound as it is perplexing: the tangible reality we experience, from the smallest particles to the grandest galaxies, emerges from the intangible realm of mathematics.

Reality, then, is not built of solid, unchanging things but of moments and probabilities.

Thus, our universe might best be understood not as a collection of objects but as a network of fields. Fluctuations in the quantum field give birth to particles, and the Higgs field lends them mass.

Conditioned by the tangible, our minds demand measurable attributes within spacetime, attributes that mere operators, as abstract mathematical tools, fail to provide.

It appears that the fabric of physical existence isn’t physical at all. It’s mathematical -

Reality possesses an operator that turns mathematics into physical reality, a feat mirrored in the way DNA, a tangible entity, gives rise to the intangible: love, religion, consciousness, and empires. Similarly, field theory posits that our tangible world - DNA, chairs, roses, consciousness-emerges not from physical particles but from the fluid realm of mathematics. In this view, physical reality unfolds from equations and fields, revealing a profound mystery at the heart of the universe.

### 7.3 THE COMPUTATIONAL UNIVERSE

Max Tegmark, a a renowned MIT cosmologist, presents a bold idea: the universe is not merely choreographed by mathematics but, at its deepest core, made of mathematics. His theory, the “computational universe hypothesis,” suggests a reality where math and physical existence intertwine.

### 7.4 THE VALUE OF NOTHING

The mystery of zero was once as profound as this empty nothingness. Butzero is not nothing. It’s a placeholder, a number with a value of zero. Mysteriously, it is inherently linked to both nothingness and infinity.

As Charles Seife explains in Zero: Biography of a Dangerous Idea, “Zero and infinity always looked suspiciously alike. Multiply zero by anything, and you ger zero. Multiply infinity by anything, and you get infinity. Dividing a number by zero Yields infinity, and dividing a number by infinity Yields zero. Adding zero to a number leaves it unchanged. Adding a number to infinity leaves infinity unchanged.”

The idea that numbers could represent nothingness, that absence could be quantified, sparked an intellectual revolution. Zero became springboard for the imagination, catapulting mathematicians into a of previously uncharted mathematical concepts.

### 7.5 IMAGINARY NUMBERS

Some numbers hold secrets as deep as the universe.

𝞹 is an “irrational number,” which means it can’t be expressed as a simple fraction and extends infinitely without repeating. Starting with 3.14159…, it stretches into eternity, mirroring the universe’s infinity. Itself is a boundless sequence as vast as the cosmos.

Since 𝞹 is infinite and never repeats, it holds every conceivable F sequence within it. Imagine: within 7, there lies every word, every of every person you will ever love, the entire works of William Shakespeare, and the time and manner of your death, all encoded within the ratio between the circumference and the diameter of a circle.

In the early 1500s, Scipione del Ferro, a brilliant mind at the University of Bologna, uncovered a truth about cubic equations that seemed almost heretical: they did not belong to our tangible world but to an abstract, almost mystical realm. !

Ambitious mathematicians constantly sought to unseat their rivals and claim their positions. To protect his livelihood, del Ferro kept his discovery a closely guarded secret. Only as he lay on his deathbed two decades later did he entrust his student Fior with the solution to the cubics.

; a place where geometry, the mathematical language of the physical world, is inverted

But only by venturing into the ethereal realm of imaginary numbers could he unearth key to the cubic conundrum. And with this key. Tartaglia triumphantly solved all thirty problems Fior thrown at him.

His search led to the Schrodinger equation, the backbone of quantum mechanics, which, in its very heart, embeds the imaginary number z, the square root of negative one.

Using such numbers for complex calculations is one thing; finding them woven into the fabric of physical reality is quite another.

It’s as if we’ve found a hidden : door in space, opening to a realm filled with unknown wonders.

What other fundamental aspects of reality remain hidden from us? Are there other groundbreaking concepts, like imaginary numbers, waiting to be uncovered, holding keys to the cosmos? Are there questions about the universe we haven’t even thought to ask?

## 8 CYBERNAUTS IN CYBERSPACE

Christopher Columbus embarked on his historic voyage, opening a new chapter in human history: He revealed a world beyond the old maps, a place of myths becoming reality.

### 8.1 THINKING MACHINES

Babbage wasn’t just an inventor; he was a seer. He envisioned the Analytical Engine as more than a machine; it was a potential rival to human thought.

### 8.2 SIMULATED WORLDS

This division often leads us to value the physical world as the only “real” existence, overlooking the realness and validity of other realms such as the spiritual, mental, mathematical, and digital.

Our consciousness-our very sense of self-relies on the non-physical: the spiritual, emotional, and mental realms. These unseen aspects, though intangible, are as genuine as our bodily presence.

Neil Gaiman once said, “people think dreams aren’t real because they | aren’t made of matter. Dreams are real. They are made of viewpoints, images, memories, puns, and lost hopes.

In such a future, the line between physical and digital fades. Our minds don’t differentiate between realities made of atoms or bits. To our perception, both are equally real.

This idea forces us to confront a reality where we might be creations of a more advanced civilization.

#### THE UNLIKELIHOOD OF SIMULATIONS

Could we, too, be characters in a grand cosmic game, our world a simulation of a time lost to the antiquity of a more advanced civilization?

Max Tegmark, an MIT cosmologist, sees the strict laws of physics hints of a simulated world, suggesting limitations like the speed of light might be controlled to keep simulated beings in check. Theoretical 1 physicist James Gates, once skeptical, discovered error-correcting codes in the equations of string theory, strings of ones and zeros woven into the fabric of reality itself.

#### A GLIMPSE INTO OUR PROBABLE REALITY

As the neural networks of the virtual beings in these worlds evolve, they’ll not only enhance their capacity to learn, reason, remember, and empathize, but also develop feedback loops of their mental processes, awakening as increasingly conscious entities

Humanity’s mass exodus into the digital realm marks the beginning new chapter in human history: As we continue to colonize this realm, we may someday learn to imbue our sims with emulated minds.

### 8.3 THE BIG DIGITAL BANG

The dematerialization of society into bits transcends mere convenience; we’re erecting digital infrastructures and virtual worlds, sculpting a new world for the future of our species.

### 8.4 THE QUANTUM LEAP

This habit, unique to humans, has led to arise in health problems and shortened lifespans. But the Digital Age offers a silver lining. It gives us the opportunity to redesign our lives, allowing for more flexibility in our schedules and the possibility to align more closely with our biological clocks.

As computational power reaches these heights, we’re nearing the end of human drudgery, the end of the age-old bind of physical and intellectual labor for survival.

### 8.5 DISCOVERING BITCOIN

Bitcoin is the discovery of applying absolute mathematical scarcity to our world, affirming its existence. Bitcoin is not just economic operating system; it’s a physics experiment.

We all play chess by agreeing on its rules. Similarly, bitcoin operates under a consensus that respects its 21 million token limit. To change these rules would be to change bitcoin itself.

Absolute mathematical scarcity could only be discovered and leveraged once because any subsequent system would inherently lack bitcoin’s pioneering approach and first-mover advantage in solving the double spending problem without a central authority.

Absolute scarcity, akin to the speed of light and gravity, is one such universal principle. Any civilization, anywhere, might discover it whether a billion years ago in a galaxy far, far away. Or in a future society yet to emerge. This makes absolute scarcity, much like zero or imaginary numbers, a discovery, not an invention. Bitcoin, zero, and imaginary numbers are discoveries because they weren’t engineered; they’re latent to reality

whY did mathematicians of the past weave imaginary numbers into their equations? They provided a more precise understanding of the universe.

We cannot un-invent the bitcoin network. The bitcoin blockchain continues to grow one block at a time, like an unstoppable force of nature. The bitcoin genie is out of the bottle. All we can do is let it breathe and watch the bitcoin revolution unfold.

## 9 BITCOIN ALCHEMY

## The most efficient method of amassing gold remains as primitive as it is arduous: extracting it from the earth’s crust with heavy machinery

The central bankers are modern-day alchemists. They have architected an illusion so pervasive that it has recalibrated our perception of wealth.

Using nothing more than a money printer and a global delusion, these modern alchemists have accomplished what their predecessors could not.

The fiat delusion promotes credit expansion under the pretense of an inexhaustible, magic wellspring of wealth. Yet

Expanding credit doesn’t create real wealth; it just means more money chasing the same amount of goods, eating away at the value of savings. E It’s a cycle that benefits a few at the cost of many:

The difference between turning lead into gold and turning energy into bitcoin is that the former requires particle accelerators and insurmountable amounts of energy, while the latter requires ASICs¹ and consumes as much or as little energy as you feed it.

“Real wealth is not having things, but having access to things. Energy, in fact, is the only universal currency; it is the necessary precondition for every unit of work. The notion of a standard of living implies a currency of some kind. Since energy is the only standard of value, our currency should be based not on gold or silver or paper, but on a standardized unit of energy- I suggest that this unit be called the erg or some multiple thereof. By accounting for energy at every stage of production and consumption, we could outgrow the antiquated notion of growth and develop a truly sustainable economy. This would not only create a world of abundance for all, but it would also free us from the tyranny of the financial elite and the endless cycle of boom and bust.” - Buckminster Fuller

This illusion allows them to infuse the current currency supply with value pulled from the future. However, this is merely a trick. Central banks aren’t genuinely converting economic energy. Instead, they’re orchestrating a fraud at the most massive scale imaginable- a worldwide, intergenerational fraud.

Conversely, the true alchemists of the twenty-first century are bitcoin miners.

Through this process of cryptographic alchemy, miners transform energy into ! value in a costly, crypto-chemical conversion: energy in, bitcoins out.

## 10 A SLOW WALTZ TO THE GRAVE

### 10.1 FROM SCIENCE FICTION TO SCIENCE FACTS

### Isaac Asimov once said, “Today’s science fiction is tomorrow’s science fact.”

The idea of “cybercash” came from this realm of thought: a digital currency without physical form, beyond state control, transacted without intermediaries. The seed of cybercash was sown in the fertile minds of a few visionary computer scientists in the 1970s.

Early visionaries recognized that digital scarcity would be a technological early visionaries recognized that digital scarcity wou where cybercash would shake the bedrock of politics, economics, and culture, liberating currency from the shackles of the state and catalyzing a hew economic order.

$100 bill passes from one hand to another, with instant transaction settlement. However, this simplicity | nother, with intervening third party must mimic the scarcity of the 1 $100 bill. I

This practice of replication is harmless for non-sensitive materials. But introduce currency into the equation, and we encounter the notorious “double spending problem,” wherein a single sum can be copied and spent multiple times by the same individual unless a vigilant third party monitors each transaction. The transference of bitcoins tran scends duplication, ushering us into the era of genuine digital teleportation. Into the bank vault through digital teleportation

Bitcoin doesn’t transmit; it settles. A transaction is never in limbo - funds are either with you or at their destination. Imagine putting a bitcoin public/private key pair inside a bank vault. You send funds to it and get a confirmation it’s been sent, and voilà, you have broken money into the bank vault through digital teleportation with the simplicity of sending a message.

### 10.2 TIME AND MONEY

Money, in essence, stores time like a battery stores electricity:

The true power of money, as Morgan House observes in The Psychology of Money, lies in the ability to use it to control time. The freedom to do what You want, when and where you want, with whom you want, and for as long as you want.

Across millennia, the nature of time has been the subject of profound debate. Does it even exist, or is it merely a powerful illusion? One fact remains unquestioned: Human time is a scarce and priceless commodity - |

### 10.3 THE BEAUTY AND PAIN OF SCARCITY

The moment of writing, the State of California alone has 40 million people, meaning that there is not enough bitcoin in the world for Californians to own even half a bitcoin each.

As the world awakens to this truth, what will happen as billions of individuals vie for a slice of the 21 million bitcoin pie?

## 11 SCARCITY IN NATURE

The laws of the universe being universal suggests that discovering and applying absolute ma thematical scarcity is not only possible but likely for other advanced societies.

Every technological civilization likely encounters specific milestones: the development of computing, mastery of nuclear energy, achievements in space exploration, breakthroughs in medicine, and the understanding zero, imaginary numbers, and mathematical scarcity.

The discovery of absolute mathematical scarcity is a universal milestone, a rite of passage that every advanced civilization is destined to come across, like prime numbers or the laws of physics.

Their ancestors would have grappled with money and mathematical scarcity, using it as a compass guide their allocation of resources and efforts, fostering large-scale intergenerational cooperation to advance society.

Someday, we might not just share knowledge with civilizations beyond Earth but also engage in interstellar commerce, exchanging value using universal principles of scarcity, bridging vastly different worlds with common understanding of what it means to communicate value across cosmos .

### 11.1 ANTLERS ARE HARD MONEY

The concept of proof of work is as old as the stars, as deep-rooted evolution itself. It’s the simple truth that sacrifice is essential for greatness.

Stars and planets form through vast : expenditures of energy. They exist because the universe paid a price in energy, time, and matter. Their very existence tells us that nothing of value comes without cost. Ifs

Big antlers are proof of a lineage that fought through adversity, a lineage that managed not just to survive but thrive enough to support such lineage that

Concrete, like railroads and books, unseen, like spent synthesizing and expressing ideas from various fields of study:

Visible goods anchor us to progress, but it’s the unseen - i - ideas, knowledge that propel us forward, from the general theory of relativity - to sliced bread and bitcoin.

The principle of proof of work insists that reward follows effort, a The principle of proof of work insists that rewar a growth without cost. This system delays the price of growth, passing the burden to future generations, creating an unsustainable cycle of debt under the guise of free progress.

Monument’s strength, timelessness, immortality, and immutability stems from the vast economic sacrifice it takes to build it.

Bitcoin is a new breed of money, one that strengthens itself by appealing to human primal instincts: greed and growth.

Just as a flower provides nectar to its pollinator, bitcoin offers a monetary reward to people who invest energy in the blockchain-a symbiotic relationship. With this abundance of energy, bitcoin can afford to grow massive proverbial cryptographic antlers and gain dominion over all other forms of money.

## 12 SCARCITY IN MATHEMATICS

### 12.1 CRYPTOGRAPHIC ANTLERS

Just as natural selection sculpts the genetic makeup of a deer lineage through adversity, miners shape the bitcoin blockchain through catallactic competition, creating incorruptible blocks and a blockchain with flawless cryptographic antlers.

### 12.1 SPIRITUAL MONEY

Yet, beneath this calm surface, halvings stir something deeper, something often missed: the spiritual significance of moving into a new reward era.

Unlike New Year’s Eve, which is celebrated at different times in different parts of the world, a bitcoin halving event is a synchronized, worldwide phenomenon, transcending borders and cultures.

### 12.3 IMMUTABLE HISTORY

In the heart of bitcoin lies a bold homage to its roots. Messages carved In the heart of bitcoin lies a bold hom ge LU ILS

A potential successor to the nation-state: the first digital network state. The bitcoin network is a digital society state and the archaic fiat system.

### 12.4 BITCOIN’S RITE OF PASSAGE

BY 2140, the bitcoin mine will run dry, forcing bitcoin to stand without the support of block rewards.

Individuals and precious asset in the digital realm. Around the globe, individuals ana MB available every ten minutes, or less than 60 GB a year, this space is scarcer than gold.

### 12.5 ESCAPING THE FOOD CHAIN

Today, the struggle for survival is essentially a relic of the past. Our collective cognition and coordinated efforts have tamed the unpredictable beast of existence.

Industrialization sparked hyperinflation in Industrialization sparked hyperinflation in commodities like salt and beads, while the arrival of European explorers | on the isle of Yap depreciated the value of rai stones.

The difficulty adjustment is bitcoin’s heartbeat, ensuring a consistent rhythm of one block every ten minutes. If mining speeds up, the puzzle gets harder. If it slows down, the puzzle eases. This way, bitcoin beats on steadily.

This mechanism is more than a pacemaker; it turns bitcoin into a living thing. It

Bitcoin isn’t just surviving; it’s evolving.

# III GENERATIONAL PROSPERITY

## 13 RISING FROM THE ASHES

As bitcoin has already embedded itself into our economy, we have a chance where Rome had none.

On the verge of a new era marked by a bitcoinized post-labor economy, extraordinary biological wealth, and the boundless potential of artificial intelligence, we have a unique opportunity to chart a different course.

Bitcoin, anchored in absolute scarcity, stands as a beacon of stability in our declining society. Its strength, its unchanging nature, offers a shield against economic storms by providing a steadfast basis for coordinating resources and the workforce, even in the face of a collapsing monetary system.

### 13.1 FROM BARTER TO BITCOIN

While resource money’s value lay in its utility, like feeding a community, commodity money’s worth was anchored in its symbolism. This evolution in the concept of money hinged on our capacity for abstract thought, fundamentally altering not just the nature of money but our cognitive processes

The evolution from tangible commodities, such as cowrie shells and gold, to intangible digital data-zeros and ones. In this metamorphosis, money transcended the physical realm to the realm of cyberspace, like a butterfly emerging from its cocoon and soaring toberspace, like a butterfly

Absolute mathematical scarcity used as money instead of a physical commodity

Ledger technology has seen three major shifts, each redefining the language of money

This marked the start of single-entry accounting, the foundation of financial record-keeping for thousands of years.

The single-entry system, though long-standing, was fundamentally flawed, opening the floodgates for errors and fraud. However, it wasn’t until the 1400s that we saw the second metamorphosis of accounting technology: double-entry accounting.

It centralizes control over financial records, granting those in charge the dangerous ability to alter them, which historically has left its mark on industries, governments, and corporations over the past seven centuries.

The bitcoin network functions as an autonomous financial ecosystem, eliminating the trust risks endemic to traditional banking systems by moving away from double-entry accounting to trustless accounting.

1 1 coin marks the discontinuation of earlier forms of money and the dawn of something entirely new-a zero-to-one event where something has been created from nothing.

### 13.2 SEPARATION OF MONEY AND STATE

“The printing press broke feudalism. It made clear that we don’t need a privileged knowledge class as rulers if we can all have the same newspaper, the same textbooks, and the same education. The democratization of information has given people a shared sense of base reality on which to make governance choices. -Daniel Schmachtenberger’

### 13.3 TIME THEFT

Ndstone of factories and offices, consuming our years. Trol, creating a new form of prison unlike any humanity has ever known. Currency debasement forces the populace to labor relentlessly, compensating for the diminished purchasing power of their hard-earned wealth.

### 13.4 FOREVER MONEY

Relentless currency devaluation has doomed generations to a life of perpetual struggle on the hamster wheel until you either collapse or retire.

Recognizing the confines of our cage is | difficult from within. To break free, we need a guiding light. Neo had Morpheus. The Middle Ages had Gutenberg. And we have Satoshi.

The need for state control over money is a myth. Money doesn’t need state oversight to function or maintain purchasing power.

Money is not just a store of value and a medium of exchange; it is the language of value itself

Bitcoin digitized money and introduced a public infrastructure for value exchange without central oversight: what the internet did for information, bitcoin has now for value.

This global ledger, accessible to all, transcends the censoring confines of the fiat system, rendering distinctions of nationality, race, 14 religion, gender, sex, or creditworthiness obsolete in finance.

Before the internet, people faced limited options for conveying a mes-three television broadcasters or a handful of newspapers. Though private corporations are indispensable, no critical infrastructure should rely exclusively on one or two entities.

### 13.5 BITCOIN, THE BLACK HOLE

### Intriguingly, black hole mathematics challenges the fundamental laws of physics, such as the laws of conservation of mass and energy. Art the singularity, our knowledge about the universe breaks down. Either we need to rewrite the fate of the material that falls into a black hole, or the laws of nature simply don’t apply in this realm.

### This digital black hole disrupts our world in three phases, too: altering culture, and perceptions, revolutionizing energy markets, and reshaping the global perceptions

With a bitcoinized mind and soul, you live for a better tomorrow, forgoing small pleasures today to set yourself on a path of eternal ascent.

In the second phase, bitcoin transforms energy markets, changing the ways we produce, consume, and even think about energy

Interestingly, the price of bitcoin is a reflection of the depth and size of the hash hole. At the singularity of the hash hole, there’s an infinite demand for energy

How, then, does bitcoin transform the energy market? Three ways:

1. It rescues stranded energy.

2. It incentivizes the development of new ways to produce cheap and renewable energy in far-off places.

3. It increases flexibility in energy systems.

Bitcoin’s pull on people is powerful. Once you’ve crossed bitcoin’s event horizon, all paths lead deeper into bitcoin: deeper into the essence of money, deeper into freedom, deeper into Your tribe, deeper into yourself, and deeper into truth. What’s at the bitcoin singularity? Truth.

### 13.6 BITCOIN, THE PARTICLE

Capable of traveling near the speed of light, neutrinos course through stars and planets as if they were empty space. Despite being the lightest known particles with mass, the combined mass of neutrinos surpasses known paces with mass, the combined mass influence that has shaped the structure and evolution of the universe.

Imagine, every second, about 100 trillion neutrinos from the sun’s nuclear reactions stream through us, unseen, unfelt. The universe, from perspective of a particle without charge, radius, or mass, is virtually empty. In a similar vein, bitcoin transactions bear no charge, radius, mass, effortlessly passing through borders, banks, regulations, and laws like empty space.

In the twenty-odd years of my deep curiosity about physics and cosmology. My attention has kept returning to these astonishing ghost particles.

### 13.7 BITCOIN, THE UNSTOPPABLE TEXT MESSAGE

### The struggle of governments to legislate bitcoin into oblivion mirrors the church’s vain efforts to suppress the printing press.

### 13.8 BITCOIN, THE APEX SHIELD

### 13.9 BITCOIN, THE STRATAGEM

The future of money hangs in the balance, with the resolution of this conflict dictating whether | financial power will reside with the people or remain tethered to the state.

### 13.10 THE AGE OF SURVEILLANCE

Given this potential for surveillance and influence, governments give themselves the power to shutter any company, organization, corporation, or individual at their discretion. With the authority bestowed by CBDCs, governments extend their reach to influence where people eat, which governments extend their reach to influence where people eat, which doctor to see, how they travel, and where their children go to school.

### 13.11 PEER BEHIND THE CURTAIN

In the social media landscape, data is the new gold, the first-layer money, while attention has become the second-layer money, like dollars. Tech and social media companies now occupy a position akin to central banks, nestled between gold and fiat currency.

## 14 THE BITCOIN MIND

When we contemplate transhumanism, it is tempting to paint it as a thrilling or terrifying future that awaits us- something that lies ahead in time, a realm yet to unfold.

The truth is that transhumanism is already here. The inception of transhumanism can be traced back to the mid-twentieth century when a biomedical revolution reshaped understanding of humanity’s role in society. The birth control pill, a groundbreaking form of reproductive technology, served as the catalyst for this movement. Its purpose wasn’t to cure an ailment or remediate human physiology but to disrupt the natural order in the pursuit of individual freedom.

The staggering realization dawns that our descendants may diverge from us as dramatically as we differ from chimpanzees. However, this from us as dramatically as we differ from chimpanzees. Howeveɩ, LIIS but by our own hands through the deliberate act of bioengineering.

Written language and postal services enabled us to communicate boundless ideas across both space and time, facilitating globalization and long-term endeavors such as mapping the world.

Telecommunications have unified humanity into a single global civilization, fostering international collaboration and cooperation, paving the way for marvels like particle accelerators and the James Telescope.

Internet 2.0 is not merely an incremental upgrade from static to dynamic web pages or the birth of social media -that: was Internet 1.1. Rather, Internet 2.0 signifies a monumental leap in communication technology: the creation of a human hive mind.

In this new reality, the barriers between our minds and the digital realm dissolve.

A communication tool of such sophistication might appear fantastical, but with the advent of telecommunication, telepathy is no longer magic-it’s an engineering problem.

### 14.1 BLOOD AND ELECTRICITY

Hiroshima and Nagasaki, where over 200,000 lives were incinerated in 1945, stand as haunting reminders of the unimaginable destruction unleashed by such unprecedented power.

Instead, nuclear war has become the ultimate war of attrition, a battle where there can only be losers.

Paradoxically, nuclear weapons have transformed from harbingers of destruction into instruments of peace.

### 14.2 SOFT WAR

As we transition from traditional kinetic warfare to electric power competition in cyberspace, the outcome of war shifts from bloodshed destruction to cheap and abundant energy for all. Rather than producing weapons of destruction, nations at war would find themselves in a mutually advantageous contest for energy

Today, bitcoin represents a modern battle arena, a new frontier for productive competition, much like the Space Race of the 1960s.

Evolution of warfare from the trenches to the sea, the sky, space, and cyberspace has now extended into bitcoin, where the competition is powered by energy rather than armaments.

### 14.3 PATH TO ENERGY MASTERY

Civilization flourishes within the delicate interplay of the complexity problem cycle - a perpetual dance between the challenges we introduce problem cycle - a perpetual

#### War

Superior technology often determines the victor because war, ultimately, is a technological arms race, a relentless game for technological supremacy.

#### THE MASTERY OF ENERGY

1. The Spark of Civilization: In the early Stone Age, Homo erectus individuals stood as the first architects of fire. Mastery over fire allowed them to explore new environments, survive in harsh conditions, and lay the foundation for revolutionary technologies such as pottery and metallurgy. Fire also became a symbol of unity,
2. The Age of Combustion:
3. The Nuclear Frontier: In
4. Human progress thrives on the edge of daunting challenges. In the quest to surmount seemingly insurmountable obstacles-winning wars, conquering diseases, exploring the cosmos, and harnessing energy-we push ourselves into an era of unprecedented innovation.

### 14.4 THE WISDOM GAP

For millennia, the indigenous shamanic cultures of South America have thrived in harmony with nature, understanding that humanity and the environment are not merely connected bur are expressions of the same essence, as inseparable as the waves from the ocean. The truth is clear: waves aren’t separate from the ocean; they are the ocean. As

Peer beyond the surface level of reality, and it becomes evident that there is no distinction between self and other, between us and nature, or between us and the cosmos.

Western cultures, by contrast, often perceive nature as something | external, a resource ripe for exploitation. This disconnection has paved way for environmental degradation on a global scale. The

The belief in separation from nature, which justifies its exploitation, mirrors the delusions experienced in severe psychosis. In psychosis, one is oblivious to one’s own disconnection from the world. Spiritually immature yet armed with godlike technology, humanity’s overreach threatens to bring about its downfall.

### 14.5 TRANSCENDING TIME

Bitcoin exists in the threshold between these visions, heralding not just an economic revolution but a cognitive and spiritual one. B

Hard money, like bitcoin, refines our mental operating systems by curbing short-term thinking, cultivating responsibility and spiritual growth.

BY transcending present-mindedness, we sow the seeds for a plentiful future where all good things flourish in abundance.

### 14.6 THE MARTIAL ART OF RESPONSIBILITY

### 14.7 BITCOIN, THE BURNING MAN OF CYBERSPACE

For nine days, the Burning Man festival breathes life into this space into a crucible of communal living, art, and existential exploration. Burning Man, like bitcoin, encourages participants to forge their own realities and peer beyond norms and expectations.

The festival’s ethos carves out a sanctuary for personal and collective evolution, promoting a cycle of growth, connection, and transcendence, while adhering to the ethos of leaving no trace.

It beckons us to strip away the veneer society has layered over our lives, to discover and align with what truly resonates within our souls

These experiences unlock a cocktail of brain chemicals responsi- | ble for feelings of love, trust, and closeness. When these states are entered collectively, they have the power to cement bonds and cultivate a spirit of £ unity

In truth, advancing within the matrix only entrenches us further in the system, binding us to a life devoid of the freedom and connection we yearn for.

### 14.8 TRANSCENDING SOCIETAL CONSTRUCTS

### Nonetheless, the rewards of a global spiritual awakening whether through bitcoin, the psychedelic renaissance, another cultural transformation, or a combination- are boundless.

### 14.9 FINANCIAL CHERNOBYL

The downfall mirrors the potential collapse of an entire global economic system, driven by similar catalysts: design flaws, incompetence, compromises, and deceit. The fiat economy, built on principles reminiscent of Chernobyl’s flawed foundations, accumulates a debt to the truth-a debt that, inevitably, will be repaid.

Like invisible radiation, this system silently contaminates the societal fabric, propelling us toward an economic meltdown with catastrophic consequences.

Echoing this sentiment, Czesław Miłosz, the 1980 Nobel laureate, observed, “In a room where people maintain a conspiracy of silence, one word of truth sounds like a pistol shot.” Those who dared to speak the truth cut through the silence, their demands for transparency and accountability reverberating far and wide.

E modern-day whistleblowers face financial, reputational, and legal haz ards, yet they prioritize the illumination of truth over personal safety.

Bitcoin is not a mere upgrade to the economy bur a quantum leap in the evolution of financial systems. It is to the economy what fusion power is to energy, heralding a new epoch of unparalleled economic might.

## 15 INFINITE WEALTH IN A FINITE ECONOMY

(demand) meets an immovable object (bitcoin’s fixed supply)? Demand (demand) meets an immovable object (bitcoin’s fixed supply) Demand bitcoin will continue to soar to ever-new heights forever.

### 15.1 INCOME LEVELS

The terms “developing countries” and “Third World countries” perpetuate a false narrative about the world, creating a simplistic and misleading dichotomy between “us” and “them.” global population resides in middle-income nations, rather than in low or high-income countries. Approximately 75 percent of the world’s population lives in the supposed gap between low- and high-income nations.” In other words, there is no gap.

Swedish physician Hans Rosling proposes a more refined approach to challenge this outmoded perspective: dividing society into four distinct income tiers.

INCOME LEVEL 2

A gas burner also means your children can go to school instead of collecting firewood, which has enormous ramifications for gaining some economic progress and avoiding being pushed back to Level 1 in case of unforeseen illness, accident, the chaos of political upheaval, or the cruel whims of illness, ac

Perhaps none is profound as introducing electricity.

Level 2 ors you a more comfortable existence, but the fragility of your circumstances

INCOME LEVEL 3

The most striking change at Level 3 is the newfound luxury of taking Your family on your first-ever vacation. It will It be short and nearby, but still a tremendous leap forward from the life-sustaining struggles of Income Levels 1 and 2.

INCOME LEVEL 4

Rosling’s model unveils a sobering truth: the luxuries and opportunities emblematic of a particular income level remain an elusive dream or an exceptionally rare reality for those residing in lower strata.

INCOME LEVEL 5

In this echelon, the lines between affluence, influence, and sovereignty blur, sketching a future where wealth not only opens doors but constructs entire realms.

The most striking departure from level 5 the realm of digital wealth. These elite individuals possess genetic productivity, contentment, physical prowess, and allure. Immune to severe illnesses and able to extend their lives significantly beyond the a severe illnesses and able to extend their lives significantly beyond the age human lifespan, they can also temporarily modify their epigenome hiking without requiring weeks of acclimatization.

New branch of humanity, an echelon of biologically transcendent beings.

Giving birth to a novel form of inequality: biological inequality. Those at Level 5 are fundamentally set apart from the rest of humankind, possessing access to resources and abilities that remain the stuff of dreams for others.

INCOME LEVEL 6

In the wake of overcoming the singularity crisis, humanity taps into the boundless overcoming the singularity energy of fusion power, quantum computing, and s sights on a horizon far beyond our earthly confines - we embark on humanity's next great voyage: becoming an interstellar species.

Has a recorded history of five thousand years, but nearly all economic growth has occurred in the past two hundred years. On the time scale of human civilization, this is not simply economic development. It’s an economic explosion.

Our modern middle class enjoys a level of prosperity that eclipses the opulence once reserved for kings and queens.

In time, they, too, will be the ancients. Despite the tremendous progress we have made, we exist at the beginning of infinity when it comes to the great economic expansion of the human project.

### 15.2 SCHRÖDINGER’S BITCOIN

This extraordinary lineage of monetary species has seen the transformation of money into information = mathematically scarce, purely digital information.

When you travel, your bitcoins need not be transported across borders; they permeate every nation, unrestricted by the constraints of geography or jurisdiction. In

Tethered to the digital realm and the bitcoin network, your bitcoins transcend the limitations of the physical world by existing everywhere and nowhere at the same time.

Comparison, can become an albatross III LU coins - can be stolen by force, and currency controlled by financial institutions is susceptible to confiscation through inflation and other Institution

From the perspective of the physical world, bitcoins exist as an enigmatic paradox, simultaneously present everywhere and nowhere, echoing the duality of Schrödinger’s cat.

Unconstrained by borders, jurisdictions, or earthly locations, bitcoin offers salvation to those who need it most.

## 16 PROSPERITY THROUGH SECURITY

Far from symbolic gestures, examining texture, weight, thickness, quality, and visual details are culturally inherited techniques to validate the authenticity of physical currency.

If you’re relying on someone else’s node to inform you about your bitcoin, it’s comparable to accepting someone’s word on the value of a satchel of coins without checking it yourself. While there’s a good chance their word is honest, true peace of mind comes from personal verification.

### 16.1 FROM SURVIVAL TO ABUNDANCE

The production of economic goods relies on a combination of human knowledge, time, and labor. As AI and robotics infiltrate the workplace, however, a new era of time abundance dawns. Robots and AI are faster, precise, vastly more capable in many regards, and less injury-prone than humans.

They demand less compensation, never unionize, and work tirelessly, 365 days a year. This will greatly expand our time abundance, allowing us to focus on our creative, intellectual, spiritual, and scientific passions and even explore new ways of organizing society.

The convergence of the internet and the bitcoin network, two of history’s most powerful communication technologies-allows information and value to flow freely, facilitating our coordination toward a } brighter future with remarkable efficiency.

### 16.2 SYMPHONY OF COLLABORATION

Unlike ants and humans, though, chimpanzees lack the capacity to effectively cooperate in larger groups, preventing them from melding their intellects to create something greater than themselves.

Together, we’ve shattered the confines of our singular capabilities, crafting a reality that transcends the imagination of any lone mind.

### 16.3 THE PENDULUM OF PROGRESS AND DECLINE

The rise of bitcoin offers us not just a lifeline but a robust scaffold to bolster the economy, reverse the alarming decline of our civilization, launch us toward the realms of automation and boundless energy, even as the decrepit fiat system gasps its dying breaths. Bitcoin promises uphold the fabric of society, ensuring continued coordination and cooperation on a global scale.

## 17 THE SHADOWS OF EXTINCTION

For eons, we were not alone; the earth was a stage shared with others of our kind — Neanderthals, Denisovans, Heidelbergensis, and Erectus. Our forebears, armed with stone and flame, carved a place for themselves all around the globe.

The genetic echoes of these ancient human species are woven into our DNA. Through interbreeding, we carry within us their biomolecular legacy. The human collective history is within us, and we are products of this history

Throughout history, modern humans have survived multiple brushes with extinction. Among the most notable is the Toba catastrophe, a massive supervolcano eruption 74,000 years ago in what is now Sumatra, Indonesia.

### 17.1 THE GRAND ARC OF HUMAN HISTORY

### Homo erectus, the upright man, stood as the most successful and longest surviving human species in history, roaming the Earth for roughly two million years. In contrast, our species, Homo sapiens, has walked this planet for just 300,000 years, and and our long-term survival is far from guaranteed

A mere 12,000 years ago, our ancestors were farmers. 12,000 years is a blink of an eye in the evolution of a species, yet an eternity in evolution of technology.

### 17.2 FROM STONE TOOLS TO NUCLEAR POWER

### Our tools, more complex and powerful than ever, continue to expand our dominion over nature and redefine our very selves. ,we evolve to meet the demands of the world we’ve sculpted, co-evolving with our technology in a self-reinforcing, symbiotic cycle-a perpetual dance of technological progress and cerebral expansion

## 18 TWENTY-FIRST CENTURY CYBORGS

It signifies a symbiotic relationship in which technology becomes a seamless extension of ourselves, melding not just with our bodies but also with our minds.

. This deep integration manifests in phenomena like “phantom vibration syndrome,” where one senses a non-existent buzzing of the phone. It also acts as an auxiliary to cognitive functions, such as memory.

### 18.1 LANGUAGE AND MONEY: MENTAL OPERATING SYSTEMS

Chen discovered that a language’s representation of time profoundly affects its speakers’ perceptions and experiences.

This divergence in perception and worldview underscores a deeper truth: our understanding of the world is not solely shaped by what our eyes see or hands touch but is deeply influenced by the language we speak. Our language’s words and grammar act as lenses, focusing on and coloring interpretation and understanding of the world around us.

### 18.2 BITCOIN, THE ALIEN LANGUAGE

Like language shapes our view of the world, money constructs a mental framework, influencing our time preference – how we value the present versus the future.

Conversely, a low time preference is the quiet strength of deferred dreams

### 18.3 THE GREAT AWAKENING

However, the true power of literacy unfolded within the individual. This new form of literacy unlocked metacognition, an awareness of one’s own mind. It enabled individuals to record, reflect, and refine their ideas, fostering a deeper self-awareness and collective wisdom.

## 19 TIME PREFERENCE

### 19.1 THE FIAT DISEASE

Money serves as a psychotechnology - a mental operating system sculpting our perception of time. Time preference, in turn, dictates the march of society:

Now, our future, illuminated by the prospects of fusion power and the dawn of a multi-planetary, ageless existence in an automated, post-labor economy, calls for a return to a collective collective commitment to the long term, challenging the fleeting urges fostered by the short-sighted fiat system.

Consider Rome’s enduring bridges, boasting inscriptions of the eternal stand. “I built a bridge will stand forever,” reads an inscription still visible today.

Modernity’s edifices, often soulless, prioritize the immediate, forsaking the ambition of permanence.

The relentless climb of living costs strangles our ambitions, planets and erecting enduring monuments fade as the rising costs of living make it difficult to afford even next month’s rent.

### 19.2 HEALING MONEY

Money stifles society’s ability to collaborate, innovate, and produce economic goods, reducing its capacity to address future crises effectively and inching us closer to collapse.

## 20 ENERGY AND HUMANITY

Energy, misunderstood and misrepresented, is not a vanishing 1 treasure. We err in treating it as a finite commodity, a pie to be divided and conserved. This view is skewed. In truth, our consumption spurs the birth of more energy, challenging the myth of an ever-shrinking reserve

The reality is, we stand on a reservoir of power so vast it mocks our attempts at measurement.

Born from doomsday environmentalist cults: the belief that using energy is inherently wrong. This narrative is not just incorrect; it’s a betrayal of truth. Energy is not our enemy but our ally, the very pulse driving our civilization forward.

Limiting energy production and use will not save us, but producing more energy will. Furthermore, how we use energy is a form of speech, and limiting energy consumption is a form of censorship.

### 20.1 THE KARDASHEV SCALE

#### OUR PLACE WITHIN THE KARDASHEV SCALE

The crux of our advancement lies in the mastery of energy and the art of communication.

As our planetary megaphone, the internet breaks the shackles of Type o isolation . |

#### COLLABORATION

What we need to excel as a species is not merely a precise system for measurement or technology but a precise system for collaboration.

#### BITCOIN, FIAT, AND THE FUTURE OF HUMANITY

To make this quantum leap, we must organize society, mobilize resources, coordinate efforts, and collaborate across continents and 1 generations, like a type I Civilization.

#### BITCOIN IS KARDASHEV TYPE I MONEY

For the first time, value moves directly from one person to another, across the breadth of globe, through the ether of cyberspace, unfettered by middlemen. A network for exchanging value like this has never existed before. It is a major leap in the evolution, not just of money or communication, but of major leap in the

For the long-term survival of the human species, we must venture beyond Earth, establishing footholds across the galaxy.

Our fate is cast not with soil and seed but in the vacuum of space as beings transcending our current form.

### 20.2 BITCOIN AND ENERGY

Much like money has played a pivotal role in sculpting human civilization on Earth; energy has been a key architect in the evolution of the cosmos since the inception of time.

#### TRANSPORTATION

The transportation of electricity is bound by wires. Meanwhile, oil, E coal, and gas require tankers, trains, and pipelines. The infrastructure of the energy sector dictates when, where, and how energy production can be profitable. Our current energy system gravitates toward energy sources near population centers, mitigating the challenges associated with transportation.

In reality, energy transportation is anchored within localized zones, catering primarily to nearby demand. The logistical difficulties of energy transportation typically limit the boundaries of energy grids to an 800-kilometer (500-mile) radius.

Urban centers, starved of energy sources but pulsing with high energy demand, frequently grapple with expensive electricity and unstable grids.

1. Integration of bitcoin into the energy infrastructure offers a solution, reducing the need for physical energy transportation.
2. Earth is a bountiful reservoir of renewable energy. The potential of geothermal energy alone could satiate our current energy needs 450,000 times over. Yet, the costs of capturing and transporting this energy render it economically inaccessible.
3. Bitcoin fixes this. Its solution lies in reorienting the energy infrastructure, moving consumers to the energy rather than moving the energy to consumers.

Groundbreaking approach empowers the energy industry to move the 3 value of energy rather than the energy itself.

It signals a seismic shift in the energy market by introducing a transformative revenue stream.

#### STORAGE

Batteries are expensive. As a result, energy is not stored but produced to cater to present demand, forcing an overproduction of energy. Often, what’s churned out is double, sometimes triple, what’s needed. Again, energy’s hefty price tag stems from its storage and journey, not its birth. We’re awash in energy, with spills all unaccounted for.

The more energy that bitcoin absorbs, the stronger and more valuable it becomes. Conversely, as the energy sector intertwines with the bitcoin network, it gains reliability, operational efficiency, and flexibility. This is the essence of synergy: a mutual enhancement between two of society’s cornerstones-money and energy.

PRODUCTION

What, then, of bitcoin mining’s relentless energy pursuit? Here lies the unexpected twist. Far from an environmental villain, bitcoin emerges as an unlikely savior. It seeks out stranded renewable energies, devouring excess electricity that would otherwise vanish into the ether. Bitcoin acts not as a drain bur as a guardian, harnessing what’s lost, not consumed.

DECENTRALIZATION

Today, your house can metamorphose into a micro-power plant with the installation of solar panels on your roof, making You one of the millions of small power operators feeding into the grid. The future of energy is decentralized.

CONCLUSION

To evolve as a civilization, we must consume more energy, not less.

Bitcoin isn’t just spending energy; it’s investing in our collective future.

Bitcoin reshapes the energy landscape-how produce, consume, transport, and perceive power. It’s not

— Bitcoin mining is not the problem; it’s the solution. It doesn’t boil the oceans; it saves them. It doesn’t threaten civilization; it propels it forward.

It turns untapped, inexpensive energy into profit.

It rescues stranded energy, otherwise lost to isolation.

It brings adaptability to our rigid energy frameworks.

It spurs innovation within the energy realm.

And as we edge into the era of potentially limitless power, like fusion energy, bitcoin’s difficulty adjustment acts as a voracious sink, a black hole always ready for more.

Therefore, bitcoin’s difficulty adjustment emerges not merely as a feature but as a force, driving us up the Kardashev scale by continuously incentivizing the expansion of our energy generation capabilities.

### 20.3 MINING FIAT, MINING BITCOIN

Since the establishment of the Federal Reserve in 1913, the fiat system has instigated a U.S. recession every 4.8 Years on average. The central banking cartel, wielding power over interest rates and utilizing quantitative easing programs, generates cyclical periods of prosperity and crisis. Each recession not only brings about profound human hardship, but also results in the staggering loss of trillions of dollars in wealth -a sobering testament to the destructive nature of the fiat system.

### 20.4 WASTE NOT, WANT NOT

While the energy consumption of bitcoin is transparent and easily quantifiable, the massive energy consumption of the fiat industry remains hidden in the shadows, a reality often overlooked by critics quick to condemn bitcoin’s energy consumption. This selective criticism, disregarding the ecological burden of the entrenched fiat system, promotes an environment steeped in intellectual dishonesty.

Unlike the energy expenditure of the fiat system, this power investment isn’t lost; it is preserved within the bitcoin blockchain, providing 15 TWh worth of lasting network security

Even if bitcoin’s energy consumption were to soar, the cost pales next to the boundless value of infinitely hard money

### 20.5 THE FUTURE OF ENERGY

### 20.6 A NEW RENAISSANCE

The degrowth movement, in reality, further entrenches society’s dependency on fossil fuels, whereas genuine progress lies in mastering nuclear power and harnessing renewable energy sources.

The purpose of every invention is to save time through increased efficiency.

Therefore, we need to conserve fossil fuels not only to heal the Earth’s scars but also as a lifeline for potential future civilizations. Grounded in prudent, long-term thinking, the notion of fossil fuels as a reserve asset is compelling. Preserving them to circumvent the singularity crisis, enabling post-apocalyptic civilizations to rise again, may indeed be the strongest argument for reducing our consumption of fossil fuels today

## 21 TO ETERNITY AND BEYOND

Stan at the cusp of a revolutionary shift in perspective: recognizing these ailments not as isolated diseases but as symptoms of the aging process. We are poised to redefine aging not as an unavoidable consequence of time’s passage but as a controllable condition -a disease in its own right that, when addressed at its root, could prevent or mitigate its numerous associated symptoms.

Our goal is not to conquer time or biology, but to understand; nor is it to dominate, but to coexist in harmony with time and the cellular orchestra that forms the symphony of our being.

ROY: A LIFE WELL LIVED

Upon his death, the curtain of illusion is lifted, revealing the hyper-realistic world you had been immersed in. awaken to the startling realization that the life you lived- those cherished memories, emotions, and experiences — were merely strands | of an intricately woven fiction.

The advent of such technology heralds a new kind of immortality, one where myriad lives, each spanning decades, could be experienced within minutes

WE ARE ALREADY IMMORTAL

Dr. Lakmir Chawla, En L He meticulously examined the brain activity of hundreds of patients on the edge of death, revealing an astonishing discovery.

As the heart stopped beating, a surge of brain activity ignited like a supernova, blazing for one to three minutes. In the final moment of life, patients who had been enveloped in the abyss of unconsciousness now experienced a breathtaking awakening, their minds flickering with activity akin to those of fully conscious individuals.

Arvid Carlsson, the distinguished recipient of the 2002 Nobel prize in Medicine, postulates that our minds may hold the power to transcend the constraints of our physical bodies, the material world, and even time itself. He posits that the moment of death could usher us into a state utterly detached from our experience of time. “And what is that?” he asks. “That’s eternity. “

### 21.1 THE NEXT ECONOMIC PARADIGM

### In a hyperbitcoinized economy, bitcoin’s purchasing power will mirror the continuous growth of the economy rising indefinitely alongside our boundless economic expansion. Thus, the value of everything else will gradually diminish against bitcoin - forever.

### Through bitcoin’s lens, we grasp technology’s true deflationary nature, with prices that reflect real economic conditions unskewed by inflation. In contrast, th ollar’s perspective distorts as artificial currency inflation outpaces technology's natural price reductions.

### A vast deficit shadows the treasury, a growing specter fed by endless borrowing. In this precarious balance, inflation becomes a crucial yer silent ally. Staving off the collapse of our collective extravagance. As the government manipulates interest rates, spawning currency from the void, it levies an unseen tax on its people, sustaining a system that quietly impoverishes and enslaves.

Beyond the smokescreen, it becomes clear: the push for a monolithic state-governed currency system is designed to foster dependency, curbing freedom. Realizing this, one sees that freedom remains elusive within the confines of fiat economics. Central banks, as time cartels, erode our lives, aspirations, and dreams. This cycle of dollar slavery will persist until we collectively reject it.

### 21.2 FORAGERS, FARMERS, INDUSTRIALISTS

The dawn of the Agricultural Age shifted human existence, ushering in a kaleidoscopic landscape of bitter paradoxes. The once rich and varied banquet of our diets, replete with fruits, vegetables, nuts, seeds, and lean meats, was replaced by grains, bread, legumes, and dairy- The hunter gatherer diet, rich in protein and healthy fats, gave way to the agricultural diet, a less diverse diet based largely on carbohydrates. In the transition from a hunter-gatherer way of life to permanent settlements and agriculture, leisure was replaced by grueling labor, new diseases emerged and connection with nature eroded. Conformity became survival’s cornerstone, traditions calcifying into rigid norms that reshaped our essence.

In this shift, the digital nomad emerges: modern hunter-gatherers wandering with laptops, crafting lives of freedom and autonomy. Unbound by geography. Free to forge their own destiny, they embody the spirit of their forebears, relying on skill and adaptability, not government, to thrive across the globe.

Bitcoin’s power lies in its capacity lies in its capacity to connect people. The first layer, perhaps contrary to popular belief, is not the blockchain. The base layer, layer o, is us, the people. We form the primary nodes, establishing a consensus on a set of rules executed by our computers, giving birth to layer 1: the blockchain and the bitcoin network.

## CLOSING THOUGHTS

My convictions are anchored by two unwavering beliefs. First, bitcoin does not need to dominate the world to secure its triumph. It has already etched its success into the annals of history by offering a viable alternative i the fiat system. Should the fiat system falter, civilization will not umble into ruin-bitcoin stands ready to assume its role as the primary global currency and world reserve asset.

Second, I foresee bitcoin seamlessly integrating into every layer of society, from the humble individual to the sprawling corporation, from small businesses to entire nations.

Bitcoin is simply the most ingenious monetary system ever conceived, forging immortal money and a distributed network destined to endure for generations to come.

Societal evolution carries a paradox: complexity drives progress but also breeds costly challenges. Societies naturally oscillate between progress and decline, grappling with complexity, wars, and disease. The real threat in decline lies in governments exploiting these times, devaluing currency for short-term gain, and favoring those nearest the money source. Creating currency from nothing offers fleeting relief but risks an inflationary spiral, culminating in a currency collapse.

Thus, as our civilization one day fades, and we become the forgotten ancients, our descendants will continue to rely on bitcoin. Though the natural cycles of progress and decline will persist, they will no longer pose the existential threats of the past. Instead of resorting to currency debasement, our only option will be the right one: expand the economy and push our technological boundaries to achieve post-scarcity and transcend the singularity crisis.

Consider the printing press, the telegraph, or paper currency; these innovations were stepping stones, each one paving the way for the next invention, never intended to be here forever. Bitcoin is not one of those technologies.

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## ABOUT THE AUTHOR