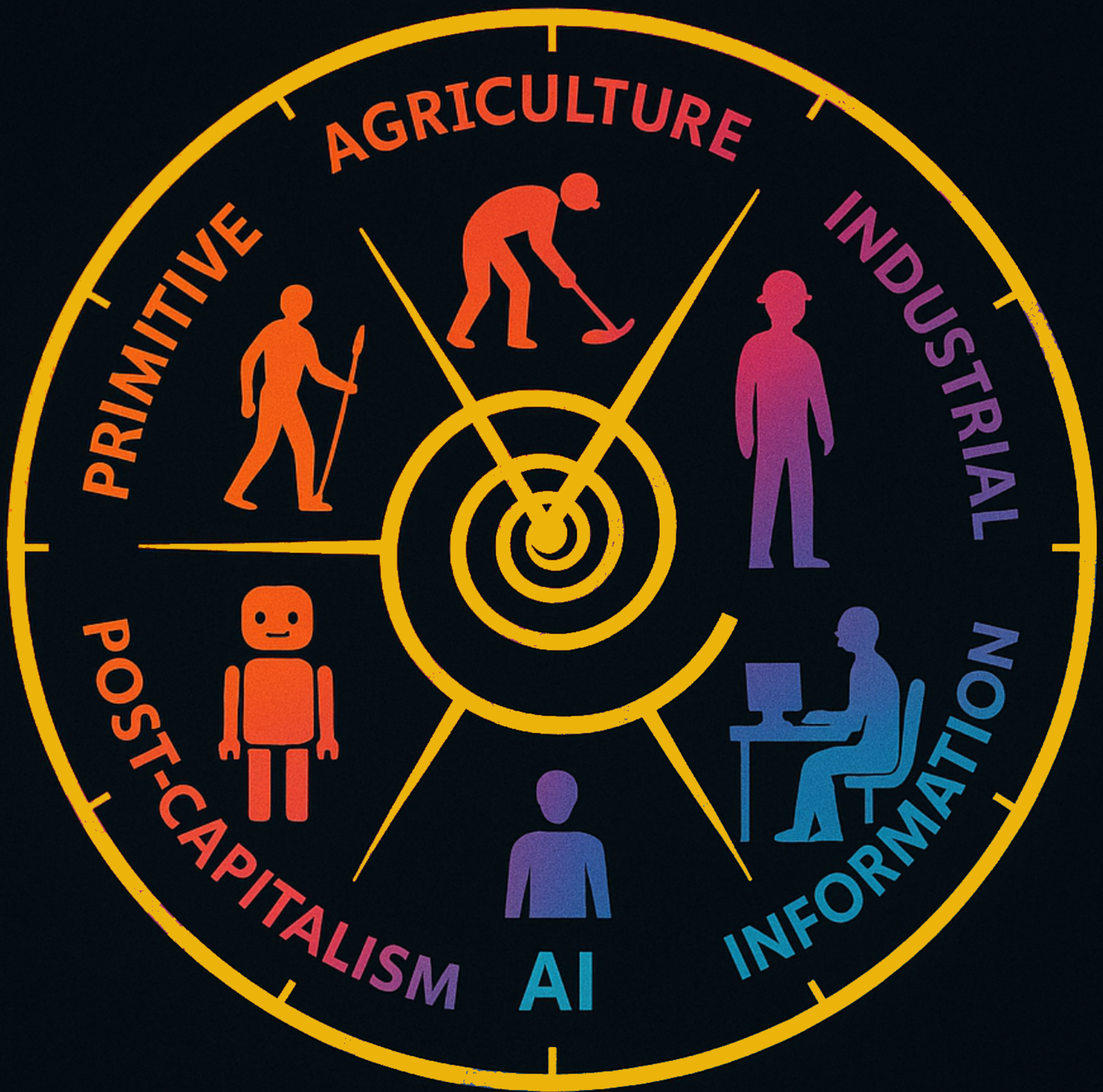


# HISTORY OF IDEOLOGY



## BEYOND AI CAPITALISM



# **History of Ideology**

Beyond AI Capitalism

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## Introduction: The Great Disruption

The truck driver had been on the road for twenty-two years.

He liked the solitude, the way the highway stretched out like a ribbon under the wheels, the feeling that he was part of something - a supply chain that kept the whole country alive. But one morning, he got a message from the depot: his route had been reassigned. The company had purchased a fleet of autonomous trucks and there were fewer shifts now. Within a month, he was out of work.

He wasn't the only one. In the same week, his sister - a radiology technician - learned that her hospital had installed an AI imaging system that could read scans faster and more accurately than any human. His cousin - a junior accountant - found his job had been automated by a cloud service that filed tax reports in seconds.

One family, three careers, all swallowed by the same invisible force: a technology that had been promised to make life easier, but instead had made them expendable.

This is not just one man's story. It is a preview of what is coming for almost every industry, every profession, every "safe" career path we once imagined would last a lifetime. Artificial intelligence and automation are about to do what steam engines, assembly lines and computers once did - but faster, more completely and with no clear destination for the people they displace.

The question is not whether AI will disrupt the economy. It already has. The question is: what comes after capitalism, when capitalism itself is automated?

### **The Long Arc of Ideology.**

To understand where we are going, we have to see how we got here.

Humanity has always lived inside ideologies - stories about how society should work, what is fair and who gets to decide. These ideologies shape everything: our laws, our technologies, even our sense of purpose.

In the beginning, there were tribes. Small bands of humans survived by sharing, hunting and gathering. There was no "market" in the modern sense - just a web of reciprocal relationships and shared responsibility.

Then came agriculture and with it, hierarchy. Land became property. People became rulers and ruled. Feudalism tied peasants to the soil and lords to their kingdoms. The economy was slow, local and brutally unequal - but it was stable, built to last for centuries.

Capitalism exploded that order. The rise of trade, banking and science unleashed a torrent of innovation. For the first time, the idea of infinite growth became thinkable. Wealth was no longer a fixed pie to be divided; it could be expanded. Machines amplified human labor and soon entire empires were powered by coal, steam and steel.

This new ideology - capitalism - was not just an economic system. It was a philosophy: competition as progress, efficiency as virtue, profit as proof of value.

And it worked. For two centuries, capitalism lifted billions out of poverty, built cities, cured diseases and connected the globe. But it also concentrated wealth, extracted from nature and required endless growth to keep from collapsing.

## **The First AI: The Computer.**

We often think of artificial intelligence as a recent invention, a product of Silicon Valley labs in the 2020s. But the first AI revolution happened much earlier - with the invention of the computer.

The computer was humanity's first true thinking machine. It didn't just do work; it processed information. The internet connected those computers into a global brain - a system that could learn, adapt and communicate faster than any individual human mind.

Capitalism embraced this new AI eagerly. The internet was monetised, platforms grew into global monopolies and algorithms learned to predict - and shape - human behaviour. Social media, search engines and digital advertising became the beating heart of a new attention economy.

In a sense, we have been living inside an AI for decades - one that optimises for clicks, ads and profits. What we are seeing now with generative AI and robotics is merely the next stage of the same transformation.

## **The Great Disruption.**

This is why AI feels different from past technological revolutions: it does not just change what we do; it changes what we are for.

If human labor is no longer the primary driver of production, then the core logic of capitalism - wages for work, profit for capital - begins to unravel. Without wages, there are no consumers. Without consumers, there is no profit. Without profit, there is no capitalism.

What happens next is not just an economic question. It is an ideological one.

Do we double down, trying to save a system that no longer serves the majority? Do we drift into digital feudalism, where a few tech lords own the machines and rent life back to the rest of us? Or do we seize this moment to design something new - a society where abundance is shared, purpose is redefined and human creativity is liberated from the grind of survival?

This book is an attempt to answer that question. It is a history of ideology, from the first tribal gift economies to the coming post-capitalist order. It argues that we are living through a philosophical revolution, not just a technological one - and that the future is still ours to write.

# Chapter 1: The Engine of Empire

## **A Brief History of Capitalism.**

If you lived in Europe in the year 1400, you would not have heard the word capitalism. You might have been a peasant, tied to the land, paying rent to a lord. Your work was mostly for survival - to grow food, mend clothes, build tools. Trade existed, but it was local, slow and risky. Wealth was measured in land, livestock or gold coins. The idea that anyone, anywhere, could become wealthy through cleverness, enterprise or invention would have sounded almost magical.

But history has a habit of breaking its own rules.

## **From Land to Money.**

Capitalism was not invented by a single person. It emerged gradually as old systems cracked under pressure. By the late Middle Ages, population growth, the rise of cities and long-distance trade created new opportunities. Merchants began to accumulate wealth that was not tied to land. Banks and early stock companies appeared in Italian city-states like Venice and Florence. Double-entry bookkeeping - a simple but revolutionary tool - allowed merchants to track profit and loss systematically.

The Black Death, devastating as it was, loosened the feudal order by creating labor shortages. Workers could demand higher wages or leave for better opportunities. In this chaos, a new social class - the burghers or middle class - began to rise.

Slowly, the centre of gravity shifted: wealth was no longer just inherited - it could be created.

## **The Birth of the Growth Imperative.**

Capitalism's real breakthrough came with the Scientific Revolution and the Age of Exploration. Advances in navigation and shipbuilding opened new trade routes. Gunpowder empires expanded across oceans. European powers plundered the Americas, Asia and Africa for gold, silver and spices. Colonisation was brutal - but it injected unprecedented wealth into European markets.

This wealth was not hoarded under palace floors. It was reinvested - into more ships, more factories, more innovation. This was the beginning of capitalism's great engine: growth through reinvestment.

Under feudalism, the pie of wealth was fixed. Under capitalism, the pie could expand indefinitely - or so it seemed.

## **Profit as Proof.**

Capitalism brought with it a new morality. Under the old order, wealth was suspect; the church frowned on usury and saw the accumulation of riches as spiritually dangerous. But as Protestantism spread, so did a new ethic: industriousness was a sign of divine favour and profit could be seen as proof of virtue.

Thinkers like Adam Smith reframed greed as a kind of public service: by seeking our own gain, we inadvertently serve the common good. His famous "invisible hand" described a market that, left to its own devices, could allocate resources better than any king or council.

The result was an economy that rewarded innovation and punished stagnation. Those who failed to compete were driven out of business. Those who succeeded grew rich - and often reinvested their wealth into even greater ventures.

Competition, efficiency and profit became society's organising principles.

### **The Industrial Acceleration.**

Then came the steam engine.

The Industrial Revolution transformed capitalism from a slow-burning fire into a roaring furnace. Factories could produce goods faster and cheaper than any cottage industry. Railroads stitched nations together. Telegraphs shrank the world.

For the first time, production outpaced local demand - and so capitalism became global. Nations sought new markets abroad to absorb their surpluses. This era saw the rise of imperialism: colonies were not just sources of raw material but also captive consumers for manufactured goods.

Capitalism had become the engine of empire.

### **The Hidden Cost.**

The results were dazzling. Life expectancy rose, literacy spread, infant mortality dropped. By the late 19th century, capitalism was credited with lifting millions out of poverty. But its success carried hidden costs.

Industrial cities choked on coal smoke. Rivers ran black with factory runoff. Workers toiled twelve-hour days in dangerous mills. Wealth pooled in the hands of a few "robber barons," while slums grew crowded with the poor.

Is capitalism a system destined to collapse under its own contradictions? Will the relentless drive for profit eventually impoverish the very workers who made production possible, leading to crisis and revolt?

For a while, reforms like labor rights, public education and welfare programs kept the system from imploding. But capitalism never stopped running on the same basic code: Endless growth, concentration of capital, maximisation of profit.

This code proved remarkably resilient - and astonishingly powerful - well into the 20th and 21st centuries.

### **Capitalism's Operating System.**

By the mid-20th century, capitalism had become the default operating system of the world. Even countries that resisted its spread - like the Soviet Union - had to organise themselves in opposition to it, creating their own industrial and military systems to compete.

After the Cold War, capitalism stood alone, triumphant. Globalisation became the watchword. Public assets were privatised. Finance grew more powerful than industry. Computers and the internet supercharged markets, creating global supply chains and 24-hour trading floors.

Capitalism seemed unstoppable. Politicians declared the "end of history." The dream of infinite growth was now embedded not just in policy but in culture itself: more was always better, faster was always good and profit was the measure of success.

And yet, beneath the surface, cracks were forming.

### **The Fatal Flaw.**

Capitalism depends on two assumptions: That there will always be new markets, new consumers and new resources to exploit. And that human labor will always be the central source of value.

But the world is finite. And now, with artificial intelligence, even human labor is no longer a given.

The operating system of capitalism is running up against the hard limits of physics, ecology and technology. And like any operating system, when it encounters an error it cannot resolve, it crashes.

The next chapters will explore how the commons were enclosed, how growth collided with planetary boundaries and how AI is triggering capitalism's final contradiction.

The engine that once drove empires is now running hot, shaking and throwing sparks. The question is not whether it will stop - but what will replace it when it does.



## Chapter 2: The Silent Theft

### **The Privatisation of the Commons.**

When the English peasants of the 16th century found fences where open fields used to be, they knew something was wrong. For generations, the “commons” - shared pastures, forests and streams - had been the foundation of rural life. Villagers grazed animals, gathered firewood and foraged freely. Then came the enclosures. Lords and landlords fenced off the land, converting it into private property for grazing sheep to feed the booming wool trade.

The peasants rioted. Some starved. But the enclosures kept spreading. Over centuries, what had been shared by all became owned by a few.

That story has been repeated, again and again, in different forms, in different centuries. Today, the enclosures have not stopped - they have just gone digital.

### **What Is the Commons?**

The commons is everything we share - the air we breathe, the oceans we fish, the knowledge we inherit, the public institutions we build together.

Once, the commons was literally common land. Later, it became public libraries, schools, national parks and infrastructure. Today, it includes our data, our attention and even the climate system itself.

The tragedy of the commons, as economists call it, is that shared resources can be overused if no one takes responsibility for their stewardship. But the modern tragedy is often the opposite: the commons are not left open - they are quietly sold, leased or captured by private interests.

### **The Great Sell-Off.**

In the late 20th century, a new ideology swept across the globe: neoliberalism. It promised that markets were more efficient than governments and that public ownership was outdated.

International organisations like the IMF and World Bank encouraged - and often pressured - countries to privatise state-owned banks, utilities and industries. Public wealth, built over decades, was sold to private investors, often at bargain prices.

### **Case Study: The Commonwealth Bank of Australia.**

The Commonwealth Bank was founded in 1911 as a public institution - a “people’s bank” that offered affordable loans, supported national development and even acted as the country’s central bank in its early years.

In the 1990s, under pressure to modernise and compete globally, the Australian government sold it off in stages. What had been a public asset became a profit-making machine for shareholders. Today, it is one of the most profitable banks in the world - but its profits flow primarily to private investors, not back to the citizens who built it.

Similar stories unfolded everywhere: In the UK, British Rail was broken up and sold, leading to higher fares and patchy service. In Latin America and Africa, water systems were privatised, sometimes making

basic access unaffordable. In Russia, state industries were sold off in chaotic auctions, creating a class of oligarchs overnight.

The argument was always the same: privatisation would increase efficiency, attract investment and reduce government debt. But the hidden cost was the loss of collective ownership.

### **The New Commons: Data and Attention.**

In the 21st century, a new kind of commons emerged - one that most people didn't realise they were giving away: their data.

Every click, search and swipe became a piece of raw material for tech companies. Social media platforms offered "free" services but extracted our attention and personal information, turning it into targeted advertising revenue.

Just as peasants once woke up to find their fields fenced off, we woke up to find that our online lives were fenced off inside corporate platforms. We became tenants in the digital world - producing content, relationships and culture, but owning none of it.

### **The Enclosure of Nature.**

Meanwhile, the natural commons - air, water, soil, biodiversity - were treated as externalities. Corporations could dump carbon into the atmosphere, overfish the seas and clear forests without paying the true cost.

Publicly owned oil companies were privatised, often leaving nations with a shrinking share of their own resource wealth. Mineral rights were sold to foreign investors, leaving behind polluted landscapes and impoverished communities.

The result: private profit, public loss.

### **Neoliberalism's Logic.**

The logic behind all of this was simple: The market is rational; government is inefficient. Private ownership motivates innovation; public ownership breeds complacency. Growth benefits everyone eventually ("trickle-down economics").

For a time, the strategy seemed to work. Share prices rose, foreign investment flowed and global GDP expanded. But the wealth created was not evenly distributed. Wages stagnated for most workers while the richest 1% accumulated staggering fortunes.

And with every round of privatisation, the public lost leverage. When crises struck - financial crashes, pandemics, natural disasters - there were fewer public assets left to cushion the blow.

### **The Commons in the Age of AI.**

This matters because the same pattern is repeating now, with AI.

The vast language models, algorithms and data pipelines that power the AI revolution are owned by a handful of corporations. The training data is scraped from the internet - our words, our art, our culture - but the resulting systems are proprietary.

If AI becomes the new engine of production, then whoever owns that engine will own the future. If left unchecked, we risk building a digital feudalism: a world where a small number of tech lords control the productive capacity of civilisation, while the rest of humanity becomes dependent on their platforms to survive.

### **The Moral Question.**

The enclosure of the commons is not just an economic issue. It is an ideological one.

It asks: What should belong to everyone? What should be privately owned? Who gets to decide how our shared resources - from data to rivers to the atmosphere - are used?

## Chapter 3: The World Is Finite

### Capitalism vs. the Laws of Physics.

Capitalism's genius has always been its ability to grow. From the first merchant fleets to the global supply chains of the twenty-first century, it has turned ingenuity into profit and profit into more ingenuity. It is, in many ways, the most successful operating system humanity has ever created. But like any machine, capitalism runs on fuel - and the world that fuels it is not infinite.

The first industrial revolution was powered by forests, which were cut down faster than they could regrow. When wood ran short, we turned to coal, then to oil and gas. Each shift allowed for more production, more population, more consumption. Every technological advance pulled more energy and resources out of the ground. In just a few centuries, humanity went from living within the slow cycles of nature to becoming a geological force in its own right.

For a long time, the planet seemed vast enough to absorb the shock. There were always more frontiers, more forests, more oceans to fish. But by the middle of the twentieth century, the signs were everywhere that something was breaking. Smog blotted out the sun in industrial cities. Rivers caught fire from chemical waste. Oil spills blackened coastlines. Extinction rates soared. By the early 1970s, scientists began to model the entire Earth as a single system - and their conclusion was startling. If humanity continued to grow production, population and consumption at the same rate, the system would overshoot its limits and collapse within a century.

Capitalism requires expansion to survive. Companies must grow or die, investors must see returns and debt must be repaid with interest. This creates a treadmill effect: even if society becomes more efficient, the savings are usually reinvested to produce still more goods, to sell to still more consumers. Economists call this the Jevons Paradox - efficiency leads to more total consumption, not less. A more efficient coal engine in the nineteenth century didn't reduce coal use; it made coal cheap and drove up demand, leading to even greater extraction.

This is the engine we live inside today: a system that rewards growth above all else, even when that growth erodes the very foundations of life. Our atmosphere has become a dumping ground for greenhouse gases, our oceans are acidifying and our soils are depleting. Scientists now speak of "planetary boundaries" - ecological guardrails that define a safe operating space for humanity. We have already breached several of them, including climate change, biodiversity loss and nitrogen cycles.

Economist Kate Raworth has captured this predicament in her model of Doughnut Economics, a simple but powerful image. Imagine a doughnut: the inner ring is the social foundation - no one should fall below it into poverty, hunger or deprivation. The outer ring is the ecological ceiling - we must not overshoot it by destroying the planet's life-support systems. Between those two rings lies the safe and just space for humanity to thrive. Capitalism, as currently designed, crashes through both: leaving hundreds of millions without basic needs while simultaneously overloading Earth's systems.

The tension grows sharper each year. To keep economies running, governments chase higher GDP numbers, encourage more consumption and subsidise fossil fuels, even as scientists warn of tipping points that could make the planet hostile to human civilisation. The contradiction is becoming impossible to ignore. Growth, once the solution to human misery, is now driving us toward catastrophe.

And yet, growth remains the unquestioned goal of nearly every government and corporation. Success is measured in quarterly earnings, stock market indexes and output per worker. If a nation's economy grows slower than expected, it is treated as a crisis, even if the slowdown spares forests, cleans the air or reduces emissions. We have built a system that treats the health of the biosphere - our only home - as an externality, a side note, something to be dealt with later.

This is why the coming AI revolution is so dangerous and so promising at the same time. On one hand, automation could drastically reduce waste, optimise production and allow humanity to produce more with less. On the other hand, if left within the logic of capitalism, AI will not slow the treadmill - it will accelerate it. The same algorithms that optimise factory output will also optimise for profit, pushing resource extraction and consumption faster, driving inequality wider and making ecological overshoot even harder to stop.

The world is finite. Capitalism, as we have built it, is not. Something has to give. The question is whether we redesign the system before it collapses under its own weight or whether we wait until collapse forces change upon us.



## Chapter 4: The AI Shockwave

### **The Last Employer.**

In the early days of the Industrial Revolution, when textile machines first appeared in England, workers smashed them. The Luddites, as they were called, feared that these machines would take away their livelihoods - and they were right. Mechanisation threw thousands out of work. But within a generation, new industries and jobs appeared to absorb them. Coal mining, railroads and mass manufacturing provided fresh work for the displaced.

For more than two centuries, this pattern repeated. Every wave of automation - from assembly lines to computers - destroyed some jobs but created others. Economists reassured the public that technology always produced “net job growth.” People would simply move into new sectors we couldn’t yet imagine.

But this time, something is different.

Artificial intelligence is not just automating tasks; it is learning to automate the very process of learning. For the first time, machines are encroaching on work that was once thought uniquely human: language, reasoning, creativity, judgment. This is not merely another step in the automation of muscle power. It is the automation of mind.

The first casualties were predictable. Self-driving trucks began to replace long-haul drivers. Warehouse robots stacked and sorted with tireless precision. Fast-food kiosks replaced cashiers. But then the wave spread upward, sweeping through white-collar offices.

Law firms discovered that AI systems could review documents in seconds rather than hours, cutting the need for junior associates. Radiology departments adopted image-recognition tools that read scans faster and more accurately than trained doctors. Financial analysts watched as algorithms learned to write market reports, detect fraud and even make trades without human intervention. Software engineers, once among the most secure professionals, saw AI coding assistants generate entire applications from a few lines of plain-English instruction.

Each individual case might seem like a simple efficiency improvement, but together they form a pattern: a slow erasure of the wage economy itself.

For capitalism, this is not a side effect. It is a mortal wound.

Capitalism relies on human labor not just to produce goods and services, but to create consumers. Wages are how most people get money. That money is how they buy things. Their spending is what keeps companies profitable. If enough people lose their jobs, demand falls, profits shrink, businesses cut back further and the economy enters a downward spiral. Economists call this an “effective demand crisis”: when people want to buy but cannot afford to.

In a fully automated economy, production could, in theory, reach near-perfection. Machines could make goods at negligible cost. AI systems could distribute them with flawless efficiency. But if no one has wages, who is left to buy the goods?

Some optimists argue that new jobs will appear, as they always have. But the pattern is breaking. AI does not just create new industries; it cannibalises them almost as soon as they emerge. A startup may hire ten engineers to build a product, only for that product to automate the work of a thousand other engineers. The result is fewer net jobs, not more.

The other common hope is that people will move into “creative work” or “human-centred roles.” There will always be demand for artists, teachers, therapists and caregivers, we are told. But the numbers do not add up. Entire industries employing millions cannot be replaced by a handful of niche creative jobs.

Even if those roles expand, they will not sustain the tax base, the consumer base or the scale of the economy as we know it.

The truth is uncomfortable: AI is the ultimate capitalist machine - faster, cheaper, more efficient - and in perfecting capitalism, it undermines its very foundation. It squeezes labor costs toward zero, concentrates wealth in the hands of those who own the machines and hollows out the middle class that capitalism depends on to function.

This is why AI feels like an earthquake rather than another wave of progress. It is not just disrupting industries; it is disrupting the entire social contract.

For now, the shockwave is uneven. Some sectors are more exposed than others. Some countries still rely on cheap human labor that machines cannot yet replace. But the trajectory is clear. Each leap forward in AI capability makes the technology cheaper and more widely available. What was cutting-edge today becomes standard tomorrow.

When the last employer has automated its last worker, capitalism will face a question it cannot answer: how do you sell goods and services in a world where your customers no longer earn money?

## Chapter 5: The Death Spiral

### **No Customers, No Tax Base, No State.**

At first, the collapse is invisible. The roads are still full of cars, the shelves still stocked, the lights still on. The newly unemployed live off their savings or they piece together gig work or they rely on family. Governments offer temporary relief packages, confident that the disruption is just another economic cycle, soon to be corrected by the invisible hand of the market.

But the layoffs do not stop. They spread from trucking to logistics, from logistics to retail, from retail to finance and administration. With every new wave of automation, more workers exit the economy as earners and reappear as dependents - on their families, on debt or on the state.

Consumer demand begins to weaken. Restaurants see fewer customers. Auto dealerships report sluggish sales. Streaming subscriptions quietly plateau. Each company responds rationally: they cut costs, which means more automation, more layoffs and more downward pressure on wages.

Soon tax revenues begin to falter. Payroll taxes, income taxes, consumption taxes - all decline in step with shrinking pay cheques. Yet the need for public support explodes. Millions apply for unemployment benefits, food assistance and housing relief. Health systems buckle as mental health crises rise. Police departments deal with more theft, more domestic disputes, more protests.

This is the paradox at the heart of the death spiral: just as governments most need resources to stabilise society, those resources are evaporating.

In wealthy countries, debt can paper over the problem for a while. Governments borrow to fund stimulus checks, public works and subsidies to keep companies afloat. Central banks cut interest rates, print money and flood markets with liquidity. But this is a temporary reprieve. The more the state props up a collapsing system, the more fragile the system becomes when the supports are eventually withdrawn.

For developing countries, the situation is even worse. Their labor advantage - the low wages that once attracted foreign factories - is nullified by robotics. Supply chains that once stretched across continents are re-shored to automated facilities closer to consumers. Export revenues fall, foreign investment dries up and sovereign debt crises loom.

Inequality, already extreme, enters a phase of grotesque concentration. The owners of the algorithms, data and machines reap staggering profits, while the majority face precarity. This is not just an economic problem; it is a political one.

Historically, extreme inequality has always ended badly for the elite. Either the system is reformed from above - as happened with the New Deal after the Great Depression - or it is torn down from below, often violently. Economists and historians call this the “pitchfork problem”: when too many people have nothing left to lose, they eventually take matters into their own hands.

Governments, anticipating this, begin to tighten their grip. Surveillance expands. Protest is met with harsher policing. Digital currencies and ID systems are introduced, ostensibly to prevent fraud, but also to monitor and control transactions. Welfare programs are tied to compliance with rules - vaccination mandates, digital attendance at training sessions, even social credit scores in some countries.

The state grows stronger even as it grows poorer. It becomes a gatekeeper, deciding who eats, who works, who travels. In the name of stability, freedom shrinks.

The death spiral does not happen all at once. It is a slow unspooling of the social contract, a steady draining of trust in governments, markets and institutions. At some point, the illusion breaks. The old economic order is no longer reformable. It has to be replaced.

## Chapter 6: The Pitchforks and the Panopticon

### Responses to Crisis.

When trust in the system finally fractures, societies face a fork in the road. The first path is chaotic, bottom-up, driven by anger. The second is orderly, top-down, driven by fear. Both are attempts to restore stability and both can become dangerous in their extremes.

The pitchfork path is as old as civilisation itself. When inequality reaches unbearable levels, the dispossessed eventually revolt. In the eighteenth century, the French Revolution overthrew a monarchy that had lost all legitimacy. In the nineteenth, waves of worker uprisings swept across Europe, demanding rights, wages and recognition. Even in the twentieth century, the threat of socialist revolution forced elites to concede labor protections and welfare programs.

In an AI-driven collapse, this path begins quietly, with scattered protests and strikes. Gig workers refuse to deliver packages until they are paid fairly. Teachers walk out, demanding funding for schools in districts gutted by falling tax revenue. Students march, demanding debt forgiveness for degrees that no longer lead to stable jobs.

Then the protests grow. Cities see waves of demonstrations, often sparked by small events - a foreclosure, a wrongful arrest, a factory closure. Online, discontent becomes organised. Hashtags turn into movements, movements into occupations. Governments deploy riot police, then soldiers. Some step down or are voted out; others cling to power.

At the extreme, this path leads to uprisings, riots and revolutions. History shows that such upheavals are double-edged. They can create space for radical new systems - but they can also unleash chaos, famine and civil war. The pitchforks do not guarantee freedom. They only guarantee that the old order will not survive.

The second path is more subtle, more insidious. The panopticon is named for the prison design imagined by Jeremy Bentham, where a single guard could watch every cell from a central tower. In a panopticon society, the guard is everywhere - and nowhere.

Governments and corporations, fearing instability, respond to mass unemployment not with reform, but with control. Digital identification systems become mandatory “for security.” Central bank digital currencies replace cash, allowing every transaction to be tracked. AI-powered surveillance cameras monitor public spaces. Predictive policing software flags “high-risk” individuals for preemptive intervention.

At first, this regime appears benevolent. Universal Basic Income is introduced, but it is conditional. To receive it, citizens must submit to data collection, attend retraining programs and refrain from “anti-social” activity. Online dissent is throttled or demonetised. Algorithms quietly de-rank content critical of the system.

People comply, because the alternative is starvation. The result is a soft digital feudalism, where a small elite owns the infrastructure and the rest of the population subsists on a stipend, kept docile by surveillance and entertainment. The pitchforks are kept locked away, but at the cost of freedom.

Both paths are possible - and both are already visible in today’s world. The protests and riots of recent years show the pitchforks are being sharpened. The rapid spread of facial recognition, biometric ID and algorithmic censorship shows the panopticon is already under construction.

Which path prevails may depend on the speed and depth of reform. If new systems of ownership, governance and distribution can be created before the crisis deepens, society may avoid both extremes. If not, the choice may come down to chaos or control.

This chapter marks the bottom of the curve. It is the bleakest point in the story, because it forces us to confront what could happen if we do nothing. But it is also the turning point.



## Chapter 7: A New Compass

### **Beyond GDP.**

In the middle of the twentieth century, the world adopted a deceptively simple measure of progress: Gross Domestic Product. GDP was elegant in its clarity - the sum of all goods and services produced in a country within a given year. It became a proxy for prosperity, a single number that told leaders whether they were succeeding or failing.

But GDP was never designed to measure human well-being. It counts weapons and prisons as positives, because they generate economic activity. It ignores unpaid labor, like parenting or caregiving, even though these are the activities that sustain life. It rewards overfishing, deforestation and pollution, because cleaning up the damage also adds to GDP. In the words of the economist Simon Kuznets, who helped invent the metric, “The welfare of a nation can scarcely be inferred from a measure of national income.”

The crisis of AI and automation exposes the bankruptcy of GDP as a compass for the future. Imagine a world where machines produce everything, prices collapse to near zero and human labor is no longer required. GDP might stagnate or even fall, but humanity could be thriving. Or imagine the opposite: GDP soars because of constant rebuilding after climate disasters, yet billions live in precarity.

If we are to navigate the coming transition, we need a new compass - a way of measuring progress that is grounded in what truly matters.

Some economists and thinkers have already begun this work. Kate Raworth’s Doughnut Economics offers a powerful metaphor: a safe and just space for humanity, bounded below by a social foundation (no poverty, no hunger, universal health and education) and above by an ecological ceiling (no climate breakdown, no mass extinction, no poisoned air or water). Between these two boundaries lies the space where a civilisation can thrive.

The Genuine Progress Indicator (GPI) takes a similar approach, adjusting GDP by subtracting the costs of inequality, crime and environmental degradation and adding the value of unpaid but essential work. Bhutan famously measures Gross National Happiness, asking citizens about their sense of purpose, cultural vitality and environmental stewardship.

These alternative measures are not just academic curiosities. They are tools for reorienting policy, business and culture. A government that measures success by well-being will prioritise healthcare, education and mental health over raw production. A business that measures impact on the planet as well as profit will invest in regeneration, not extraction.

For our truck driver, this change in compass means that his life will no longer be valued solely by his output as a worker. The worth of his family will be measured in their health, education and contribution to their community - not just in their consumption power. His children’s schools might track not just test scores but creativity, emotional intelligence and environmental literacy. Their town might receive funding based on air quality, access to green space and civic participation.

Recalibrating our measures of progress does not magically solve the crisis of capitalism, but it does allow us to see more clearly where we are going. The question shifts from “How do we keep GDP growing?” to “How do we ensure everyone can live well within the planet’s limits?”

## Chapter 8: The Tools for Transition

### **UBI, Ownership and the Commons.**

The collapse of work as we know it is not an end; it is an opening. It is a moment to ask what kind of society we want to build and to design the institutions that can carry us there. For two centuries, capitalism has relied on a simple equation: work generates wages, wages generate demand, demand drives production. As artificial intelligence and automation disrupt this equation, we have a choice: cling to the old system until it fails completely or build a new one that decouples human dignity from the need to sell labor.

The first tool in this transition is Universal Basic Income. UBI is often misunderstood as charity, but it is better seen as a dividend - a rightful share in the wealth created by society as a whole. Just as shareholders receive dividends from a company they own, citizens could receive a dividend from the productive capacity of their economy.

Early experiments have shown its potential. In Finland, basic income trials improved mental health, well-being and trust in institutions. In Namibia, a small-scale UBI reduced poverty and crime while increasing school attendance. Even in the United States, where the idea has been politically controversial, programs like the Alaska Permanent Fund pay residents a share of oil revenues each year, creating a precedent for collective ownership of natural wealth.

But UBI alone is not enough. If we simply redistribute money while leaving ownership of automation and data in private hands, we risk creating a new form of feudalism - a coupon system where citizens rely on the generosity of those who own the machines. To break the cycle of dependency, we must democratise ownership.

This can take many forms. A sovereign wealth fund could hold shares in the most productive AI-driven companies, paying out a citizen's dividend to every member of society. Norway already does this with its oil wealth, managing a fund worth over a trillion dollars for the benefit of future generations. The same model could apply to automation and data - the new "oil" of the digital economy.

Platform cooperatives offer another path. Instead of a ride-hailing app owned by distant shareholders, imagine one owned by its drivers and passengers, with profits shared among them. Instead of a social network monetising user data for advertisers, imagine one governed by its users, with data held in trust and used for collective benefit rather than surveillance.

Data itself must be reclaimed as part of the commons. Today, tech companies harvest personal data for free, turning it into profit through targeted ads and machine learning. In a new system, this data could be placed in public or community-managed trusts. Individuals could consent to its use and receive compensation or they could choose to withhold it altogether.

These tools - UBI, sovereign funds, cooperatives and data trusts - are not theoretical. They exist in prototypes and pilot projects around the world. The challenge is to scale them, connect them and make them the default rather than the exception.

For our truck driver, this transition would mean that when his job disappears, he does not fall into destitution. Instead, he receives a basic income that allows him to cover essentials while he retrain or simply takes time to breathe. He might choose to invest some of his time in a local cooperative restoring degraded land, installing solar panels or building distributed energy systems. He might become a member of a platform coop where he helps govern the digital infrastructure he uses every day.

The purpose of these tools is not just to prevent collapse. It is to create the conditions where people are free to pursue meaningful work - the work of caring for one another, healing ecosystems and designing

better futures. The next chapter will explore what this purpose-driven society might look like and what new forms of “work” might emerge when survival is no longer the primary motive.

## Chapter 9: The Purpose Economy

### Work in an Age of AI.

For centuries, work has been the central axis of human life. It has structured our days, shaped our identities and determined our place in society. To be unemployed was to be excluded, to stand outside the circle of dignity. Yet the paradox of automation is that it forces us to confront a truth we have long avoided: work was never an end in itself. It was a means - a way to survive, to feed our families, to keep the lights on.

When survival is guaranteed, a new question emerges: what do we do with our lives when we are no longer compelled to labor for wages?

The answer is not idleness. Humans are not built to do nothing. We are restless, creative, meaning-making creatures. What vanishes is not activity but coercion. We are freed to choose what we contribute to the world.

In the early years of the transition, much of this work will involve repairing the damage left behind by centuries of extractive industry. Whole sectors will arise around ecological restoration: re-wilding degraded landscapes, cleaning rivers and oceans, replanting forests, rebuilding soil. Renewable energy will become not just a technical project but a social one, as communities work to build decentralised grids, micro-grids and storage systems that give them energy independence.

Other sectors will grow around care. For too long, caregiving - raising children, tending to the elderly, supporting those with disabilities - has been undervalued or invisible because it does not fit into the wage economy. In a purpose economy, this work becomes central. With financial pressure lifted, people can choose to devote themselves to caring for others without fear of poverty.

Education will transform from a system designed to produce obedient workers into a lifelong pursuit of mastery. People will study not just to earn credentials but to satisfy curiosity, develop skills and contribute knowledge back to the community. Arts and culture will flourish, as creativity is no longer something squeezed into the margins of a workweek but a central form of participation in society.

For our truck driver, the shift is profound. At first, the loss of work feels like the loss of identity. He wakes up without an alarm clock for the first time in decades and does not know what to do. But with basic income providing stability, he takes time to reconnect with himself and his family. He attends workshops at the local learning hub, where neighbours gather to learn new trades - permaculture, solar installation, digital fabrication.

Within months, he joins a cooperative that works to restore wetlands in his region, earning not just income from the cooperative's profits but a sense of pride as fish return to waters that were once dead. His children grow up seeing their father not as a cog in a machine but as a steward of the land. When they finish school, they do not face the terror of joblessness but a world full of projects that need doing, from community energy projects to open-source software development to environmental science.

The purpose economy does not erase struggle. There will still be competition, disagreements and failures. But the stakes are no longer survival. The game has shifted from who can extract the most to who can contribute the most meaningfully.

When survival is decoupled from employment, we can finally ask deeper questions about what kind of world we want to create.

## Chapter 10: The Peaceful Path

### How Change Happens.

Civilisations rarely change because they want to. They change because they must. The history of ideology, from hunter-gatherer bands to agricultural kingdoms to industrial nation-states, is a story of systems that worked until they no longer did. When old ways of organising life became unsustainable, societies either adapted or collapsed.

Today, we stand at a similar inflection point. The old system - wage labor capitalism, powered by fossil fuels and measured by GDP - is faltering. The temptation is to think that the only way forward is through collapse: that we must burn down the house before we can build a new one. But there is another way.

Change can come from the top down, through deliberate policy and institutional reform. Governments can choose to implement universal basic income, funded by taxes on automation, data or wealth. They can charter public AI systems and digital platforms to ensure they serve the common good rather than a handful of shareholders. They can reform corporate law to require companies to measure success not just by profit but by social and environmental impact.

Change can also come from the bottom up. Individuals and communities can create their own cooperatives, mutual aid networks and local currencies. They can demand that their data be treated as a collective resource, not a commodity to be extracted. They can build open-source tools and share knowledge freely, creating a parallel infrastructure that rivals corporate monopolies.

And change often comes from the outside in - through shocks that force society to reconsider what it thought was impossible. Crises, whether economic, ecological or technological, open windows of possibility. The Great Depression made the New Deal politically viable. World War II ushered in welfare states and universal healthcare in many countries. In the same way, the shocks of automation, climate disruption and social unrest could make UBI, sovereign wealth funds and new commons-based systems politically inevitable.

None of this will be smooth. The transition will be messy, uneven and contested. There will be setbacks and power struggles, moments when it feels as though the panopticon has won or the pitchforks have taken over. But history suggests that when new technologies disrupt the old order, new moral horizons open as well. Slavery, once considered natural, became intolerable after the industrial revolution reshaped economies. Women's rights, once dismissed, became central to the modern era.

For our truck driver, this path means that the future does not have to be one of chaos or surveillance. It can be a future of empowerment. Instead of being left behind, he is invited to participate in shaping the new systems. His cooperative is linked to others around the country, forming a federation that shares resources and knowledge. His children learn civics not as dry theory but as a practical skill - how to vote on budgets, how to deliberate in assemblies, how to steward common resources.

The peaceful path is not passive. It requires courage, imagination and organisation. It asks citizens to act not just as consumers but as co-creators of their world. But if we take it, we may be able to compress what once took centuries into a single generation. The next system is already being born around us, in cooperatives, open-source movements, renewable energy projects and data commons experiments. The future is not some distant horizon. It is arriving now, unevenly, quietly, in scattered places where people are choosing to build it.



## Conclusion: The Choice is Ours

The truck driver sits on the porch of a modest home in a small but thriving community. A decade ago, he watched his job vanish almost overnight when autonomous freight networks came online. At first, it felt like the end of his world. The bills piled up and the sense of dignity that came from being a provider slipped through his fingers. He was angry, fearful and ready to join the chorus of voices demanding that the machines be stopped.

But stopping the machines was never truly possible. What changed instead was the story that society told about work, value and purpose. The driver's town banded together with others to start a cooperative training centre, funded by a national sovereign wealth fund that had been seeded with automation profits. He retrained not for another job that would soon be automated away, but for meaningful work that was needed for generations to come: restoring wetlands, building renewable micro-grids and mentoring younger workers in the skills of hands-on infrastructure repair.

His partner took up a role in a local data trust, helping residents manage their collective digital footprint and decide how and where it would be licensed for use. Their teenage daughter discovered a passion for ocean cleanup robotics and their son learned permaculture and ecological design - skills that were valued not as hobbies, but as pillars of the new economy. The family was not rich, but they were secure. They were not consumers first, but participants and stewards of a shared future.

This is not a utopia. The road here was uneven and painful. There were moments of unrest, sharp political battles and powerful interests that tried to resist change. But the centre of gravity shifted. The collapse of capitalism, rather than dragging civilisation into chaos, became the catalyst for a new story about who we are and why we organise economies at all.

The pace of this transformation was astonishing. Human history is a story of accelerating change: hunter-gatherer societies endured for millions of years with little alteration; agriculture reshaped the world over the course of several thousand years; industrial capitalism rose and dominated within a few centuries. Now, in the age of digital technology, entire paradigms shift within decades. The transition to a post-capitalist, AI-enabled economy did not take millennia. It unfolded in a single human lifetime - fast enough to be felt, slow enough to be shaped.

And this is the lesson we must carry forward. The future is not something that happens to us. It is something we build together, in real time, with the tools we inherit and the choices we make. AI is neither saviour nor destroyer; it is a mirror, reflecting back our intentions at scale. We can use it to concentrate power, surveil every movement and lock humanity into digital feudalism. Or we can use it to liberate human potential, heal the planet and create an economy that finally serves life rather than consumes it.

The collapse of capitalism is not the end of the story. It is the turning of a page. Beyond AI capitalism lies a chance to craft a system that is regenerative, participatory and abundant. The question is not whether this change will happen - it already is. The question is whether we will have the wisdom, courage and imagination to guide it toward a world where the truck driver, his children and billions like them can look to the horizon with hope rather than fear.

The choice, as it has always been, is ours.

# Forward

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### **Seeds of the Living Cosmos: How Life Shaped the Universe.**

What if life isn't rare, but the natural outcome of cosmic forces? Seeds of the Living Cosmos explores how stars, water and physics align to make life inevitable across the universe and how Earth may be just one node in a vast, evolving web of living systems.



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