

Infinite Futures

How AI & Converging Technology Will Redefine Humanity by 2030



5 YEARS TO PREPARE & RETOOL YOURSELF



Theo Scherman

"Your Five-Year Journey to a New World"



Infinite Futures

How Technology and Innovation will
Redefine Humanity by 2030

“Your 5-Year Journey to a New World”

Theo Scherman



Published by FutureScript

Disclaimer Notice:

This book is a work of non-fiction. The author has made every effort to ensure the accuracy of the information contained within; however, the author assumes no responsibility for errors, omissions, or contrary interpretations of the subject matter. The reader should consult a professional for specific advice tailored to their situation.

© 2024 by Theo Scherman

All rights reserved.

ISBN: 978-981-94-1397-3

First Edition, 2024

No part of this book may be reproduced, stored in a retrieval system, or transmitted in any form without the prior written permission of the author, except for brief quotations used in reviews or analysis.

Published by FutureScript Publishing

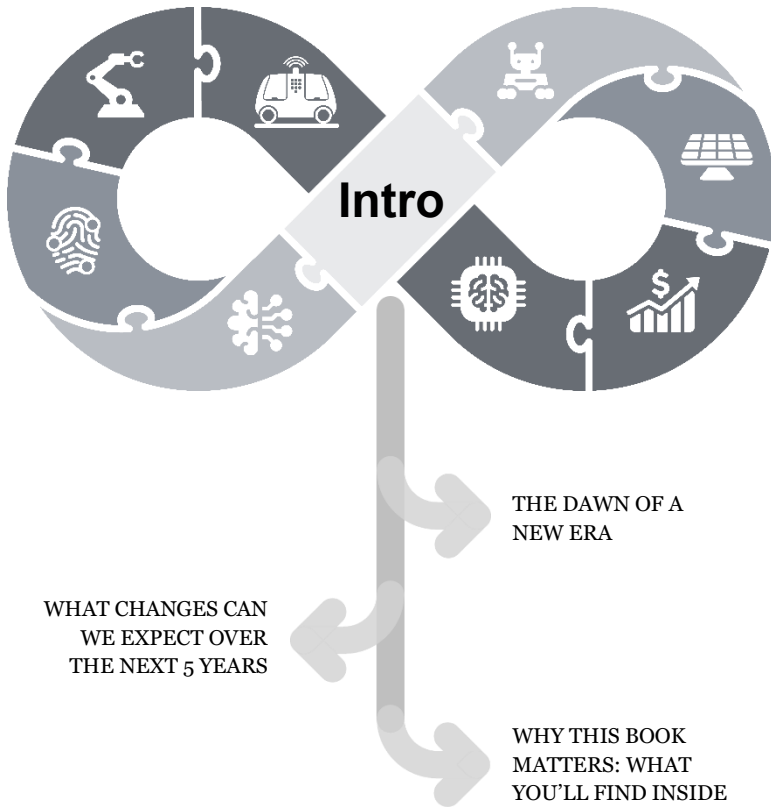
Printed in Singapore

Contents

Introduction: The Dawn of a New Era.	10
Chapter 1: Key Drivers of the Paradigm Shift	24
Chapter 2: The Rise of AI: Implications for the Economy	34
Chapter 3: Societal Transformation Through AI	48
Chapter 4: AI and The Future of Labor and Productivity	58
Chapter 5: AI Agents and the New Economic Paradigm	70
Chapter 6: Omni-Synchronous Engagement	80
Chapter 7: GDP Growth and the Economic Singularity	92
Chapter 8: The Role of Universal Equity, Productivity, and Debt in Future Economies	104
Chapter 9: The Role of Blockchain and Crypto in the Coming Transformation	120
Chapter 10: New Business Models	134
Chapter 11: How AI Will Reshape Industries	150
Chapter 12: Infinite Human Knowledge: The Disruption of Scarcity	170
Chapter 13: The Value of Community in the Age of AI and Digital Transformation	180
Chapter 14: The Rise of AI Companions: The Future of Human Connection	204
Chapter 15: The Future of Energy: Renewables and Economic Impact	216
Chapter 16: The Deflationary Impact of Infinite Intelligence	232
Chapter 17: The Urgency of the Next Five Years: What You Need to Do	242
Chapter 18: Unnerving Scenarios in Transcending Humans, Economy and Industries	264
Epilogue: Embracing Infinite Futures – The Time for Action is Now	274
References:	286
Glossary:	292
About the Author:	304

“Your 5-Year Journey Starts Here”

Covered in the Introduction



Introduction:

The Dawn of a New Era.

In the next five years, the world will undergo a transformation that will touch the lives of every person on this planet. Between now and 2030, we're not just facing progress; we're on the brink of a revolution. Key technologies will reshape our society, the global economy, and even your day-to-day life in ways you might not expect.

It is always difficult to talk about the future, especially when the coming changes will have a transformative impact on people's lives. I wrote this book as an alarm bell; the idea is to use it as an impetus to open the scope of your mind.

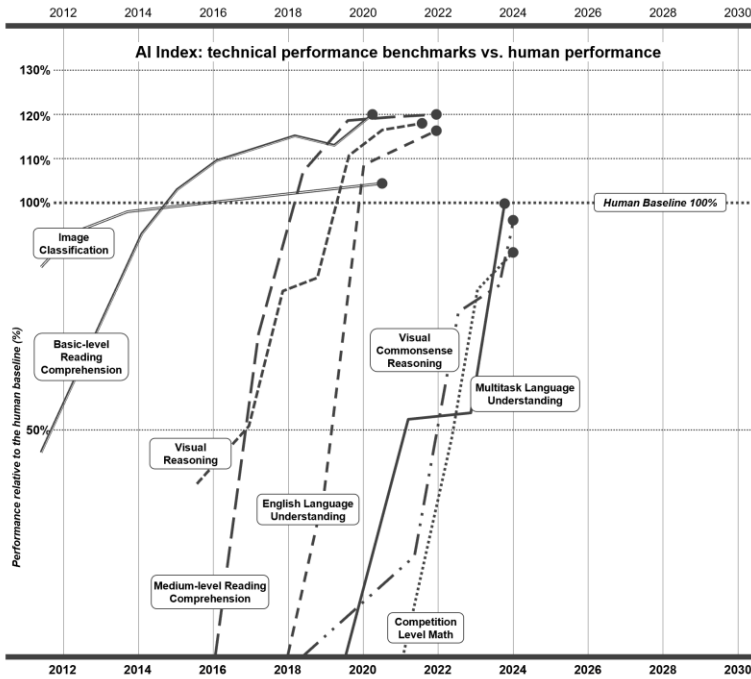
I have been involved in technology for the past 31 years and have lived through and experienced significant change, but this is different on an unprecedented scale.

Advancements in artificial intelligence, automation, energy, and transformative technologies aren't just speeding things up; they're laying the foundation for an entirely new way of living, working, and connecting. This is no slow evolution; it's a sweeping shift rewriting the rules for industries, economies, and societies. The speed of change we are witnessing and what we will see over the next five years is beyond anything humanity has ever experienced. I think most people can imagine the future in some form, but it is the speed that will catch most people off guard and underprepared.

Why so fast? We are seeing a convergence of 14 different technologies, driving this unprecedented paradigm shift. In the book, I will examine them and how their convergence will disrupt entire industries. Let's take two of the main drivers, **artificial intelligence**, and **energy cost reduction**, to illustrate the pace of change and the urgency it is creating:

Artificial Intelligence: One key metric we use to gauge AI intelligence is the AI Index, which tracks AI's performance against humans across 8 benchmarks. Currently, AI surpasses human

capability in 5 of these, while it scores 88%, 93%, and 98% on the remaining 3. By the end of 2025, AI is expected to outpace humans in all benchmarks. After that, AI won't just catch up, it will grow exponentially, becoming 10x, 100x, and eventually 1000x more capable than human performance.



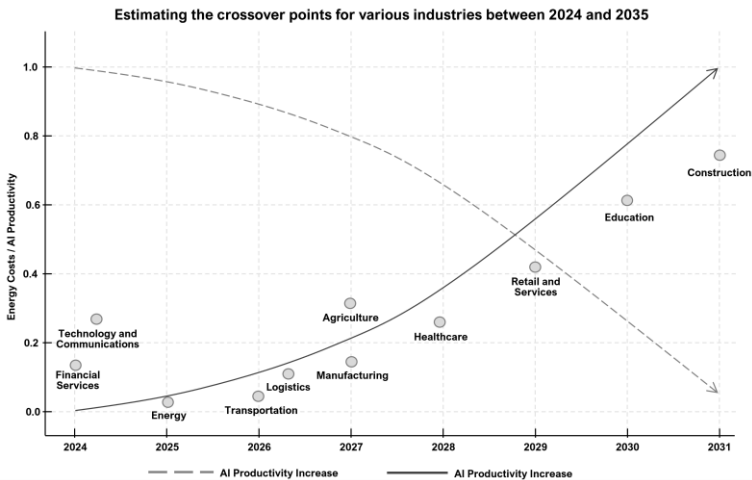
Source: AI Index, 2024 | Chart: 2024 AI Index report

Skill	Framework
●—— Image Classification	(ImageNet Top-5)
●—— Basic-level reading comprehension	(SQuAD 1.1)
●----- Visual reasoning	(VQA)
●- - - Medium-level reading comprehension	(SQuAD 2.0)
●- - - - English language understanding	(SuperGLUE)
●..... Competition Level Math	(MATH)
●- · - Visual commonsense reasoning	(VCR)
●—— Multitask language understanding	(MMLU)

Energy Cost Reduction: The real acceleration begins when we factor in the declining costs of AI implementation and energy. The crossover point, where AI-driven productivity gains outpace energy costs, signals a seismic shift across industries. Between 2025 and 2031, we'll witness this transformation in sectors that

employ over 40% of the global workforce. By 2025, two major industries would have reached this tipping point and by 2031, the last of the top 11 industries (construction) will follow.

Take manufacturing as an example. In 2024, the combination of AI-driven automation and cheaper renewable energy sources has already transformed multiple industries. Factories already rely on AI-powered robots and machine learning algorithms for tasks such as predictive maintenance, quality control, and supply chain optimization. The cost of running these systems has dropped dramatically due to advances in AI technology and the increasing use of solar and wind energy and we will see this continued downtrend.



The crossover points for various industries between 2024 and 2031, where AI-driven productivity gains intersect with reductions in energy costs.

For instance, a factory using AI to predict machine failures can avoid costly downtime and reduce waste, improving productivity by over 20%. When this productivity growth surpasses the energy costs needed to power these AI-driven systems, the company reaches a critical tipping point, AI starts to deliver net positive returns beyond initial investments. This shift has already been witnessed in several manufacturing sectors and sets the stage for rapid adoption across multiple sectors. The manufacturing industry is forecasted to reach that crossover tipping point in 2027.

Through this book, the urgency of the ‘5-year window’ will emerge, hopefully inspiring you to open the scope of your mind and start preparing and retooling your company, your personal life, and your family.

Since the dawn of computing, Moore’s Law has served as the gold standard for measuring technological progress. It predicted that the number of transistors on a chip would double approximately every two years, leading to exponential increases in computing power. For decades, this principle fueled industry growth, enabling technologies to become smaller, faster, and more efficient. However, as we approach the physical limitations of Moore’s Law, attention is shifting toward Metcalfe’s Law and Reed’s Law, which compound the growth cycle by emphasizing the value created through network size and connectivity.

Metcalfe’s Law states that a network’s value is proportional to the square of the number of connected users. This principle underscores how interconnected systems create exponential value, with every additional connection amplifying the overall impact.

Going beyond this, Reed’s Law suggests that the value of a network grows exponentially as more members join, forming countless sub-networks and connections. In today’s digital economy, where platforms like social networks, blockchain ecosystems, and AI-driven marketplaces thrive, Reed’s Law helps us understand the increasing influence of connected systems. It reveals that the true value of technology lies not just in processing speed but in the relationships and interactions these networks foster.

This is where AI emerges as a transformative force. Beyond its role in enhancing efficiency, AI will accelerate the creation of new connections within networks as companies and individuals deploy their own AI agents. These agents will seamlessly interact, further expanding the web of relationships and enabling continuous innovation.

In this book, we explore how the convergence of **Moore's Law**, **Reed's Law**, and **AI** will reshape industries, economies, and even personal relationships. From self-optimizing supply chains to personalized AI companions, the future economy will be built on **intelligent, interconnected systems** that redefine the way we work, interact, and thrive.

Through this journey, the urgency of the '5-year window' will emerge, hopefully inspiring you to open the scope of your mind and start preparing and retooling your company, your personal life, and your family without being caught off-guard.

What changes can we expect to see over the next 5 years?

In the next five years, the world will undergo changes that will redefine the very fabric of society. These aren't just tweaks to the status quo, they're tectonic shifts. Here's a sneak peek into some of the groundbreaking transformations coming our way, ***which will be covered in detail throughout the book:***

- ∞ **AI-Driven Abundance:** Say goodbye to scarcity. With AI leading the charge, the world will create value through intelligence and automation, making limited resources a thing of the past.
- ∞ **Redefining GDP:** Growth and productivity will no longer be measured the old way. As AI agents become limitless digital contributors, working around the clock without human constraints, and renewable energy drives operational costs toward zero, traditional measures of growth like GDP will no longer suffice.
- ∞ **The End of Traditional Jobs:** As AI reshapes industries, the traditional 9-to-5 will fade away. Work will evolve into creative, problem-solving, and collaborative endeavors, redefining what it means to contribute.
- ∞ **Omni-Synchronous Engagement:** A new paradigm of influence and interaction where AI enables one person, to engage in many conversations at the same

time, maintaining real-time, synchronous interactions with multiple people, yet each interaction feels personal and one-on-one, a blend of one-on-one intimacy with the scale of the digital world.

- ∞ **Infinite Knowledge:** AI will eliminate the constraints of scarcity in knowledge, giving everyone access to limitless information, education, and creative potential.
- ∞ **Economic Singularity:** AI's rise will obliterate old economic metrics, catapulting us into a new world of exponential productivity and endless resource abundance.
- ∞ **AI Transcending Human Limitations:** AI won't just boost efficiency, it will stretch the boundaries of what humans are capable of, creating a seamless partnership between us and machines.
- ∞ **Universal Equity as Future Income:** Imagine a world where income isn't just about a paycheck. Universal equity will provide shares in corporate or national wealth, transforming how wealth is distributed and reshaping financial security. Every individual can generate income from their own physical and intellectual equity as well as hold equity in society's collective wealth and a future income source.
- ∞ **The Deflationary Power of AI:** With AI optimizing every aspect of production and services, expect a significant drop in costs, sparking deflationary trends across industries.
- ∞ **AI Companions:** Forget robots as just tools. AI companions will become integral to human relationships, offering emotional and collaborative support and transforming human interaction as we know it.
- ∞ **Blockchain Redefining Trust:** Blockchain technology will dismantle the need for intermediaries, giving rise to decentralized trust systems across finance, governance, and beyond.
- ∞ **Energy Costs Approaching Zero:** Renewable energy will soon be so abundant and affordable that it will radically

alter economic models, propelling industries into a new era of productivity.

- ∞ **AI-Driven Economics:** AI can spot opportunities and execute actions at a speed humans can't match, completely altering market dynamics.
- ∞ **No Trading Edge for Humans:** In a market dominated by AI algorithms, humans will lose their competitive edge, with no ability to outpace AI in trading or economics.
- ∞ **Digital Industries with Zero Margins:** Companies built solely on digital frameworks will struggle to survive in a world of instant decision-making and zero-margin timeframes.
- ∞ **The Rise of ICOs:** Traditional IPOs will become relics of the past as ICOs (Initial Coin Offerings) take over as the preferred way to raise capital.
- ∞ **Public Companies Fighting for Survival:** In a data-driven, emotionless market, companies could see their stock values plummet to zero overnight, with AI making cold, hard decisions based on facts.
- ∞ **A New Definition of Wealth:** Your lifestyle, your freedom, and your ability to live well will redefine wealth, pushing aside old ideas about financial success. As automation and AI take over routine tasks, the value of genuine human interaction will skyrocket. One-on-one human touch, personalized experiences, and meaningful connections will become premium commodities in a world where efficiency dominates. In this future, true wealth will be measured not just by financial assets, but by the quality of human connections, your time, and your ability to enjoy life's moments.
- ∞ **Revolutionary Business Models:** The future belongs to businesses that embrace AI and automation, leaving behind outdated linear business models for platform based decentralized, blockchain AI-driven models.
- ∞ **Universal Basic Income (UBI):** *In this book, I do not wish to engage in the political debates surrounding some of the solution implications. UBI is one of those topics that*

generate strong emotional reactions. Considering the significant economic disruptions that are likely to accompany the transition to a new economy, particularly considering the potential job losses from automation and technological advancements, my sense is that some countries may find themselves with limited options but to explore versions of UBI. In the book, I will explore and look into all these potential solutions and their implications, good or bad. The concept of UBI will take center stage where citizens will receive regular, payments to cover basic needs, with the aim of creating financial stability for all.

The clock is ticking. This shift is already underway, and the pace of advancement will accelerate faster than anything we've seen before. Over the next few years, AI will surpass human capabilities in ways that once seemed impossible. Automation will revolutionize industries faster than we can adapt, and the energy revolution will rewrite decades of dependency on fossil fuels.

But this isn't just about technology; it's about you. AI and robotics will reimagine your career, your community, your personal choices, and even how you define success in ways that seem unimaginable today.

Let me share a personal example. About 18 months ago, I had to face this head-on with my own son. He started university in 2022, pursuing a double degree in Law and Business. Three months in, I called him, and we had a tough conversation. I could already see the writing on the wall for the legal profession; AI was going to reshape it entirely. We discussed how, in the future, premium careers would center around human-to-human interaction. After some deep reflection and research, he decided to drop law and switch to Psychology and Business.

Fast forward to this year, and we had another conversation about what AI would mean for his future. After much discussion, we concluded that my son had two paths to consider:

The first option was to stop his studies and pivot to a trade profession, something hands-on like plumbing, electrical work, or carpentry, roles that AI is less likely to fully automate anytime soon.

The second, more challenging path was to commit to at least seven more years of study to become a clinical psychologist. In today's world, where AI and automation are already handling lower-level counseling and therapy, we realized that anything less than the highest level of qualification in psychology would soon be obsolete. AI companions and systems will dominate the routine aspects of therapy and counseling, leaving only the most specialized, human-centered fields untouched. If he wanted to ensure a meaningful career in psychology, it was clear that becoming a highly skilled clinical psychologist was the only viable option.

This moment wasn't just about choosing a career path; it is the harsh reality many of us must face today, the middle ground is disappearing, and you either need to aim for the top or rethink your career entirely. This book is your guide to navigating the same kinds of decisions, because they're coming for all of us.

So, what does this all mean for you today? This paradigm shift is not some distant future. It's already happening, and you're not just reading about it; you're living it.

You might think, 'This all sounds too far-fetched, overwhelming, and even frightening.' I get it. But don't let fear or doubt paralyze you. The whole purpose of this book is to shake things up, to open your mind to the massive shifts happening right now. If you choose to close your eyes to these changes, trying to hold on to what's familiar, you'll find yourself lost and struggling to keep up in just a few short years. The world is moving fast, exponentially fast.

On the flip side, you'll see new opportunities if you start paying attention and recognize the technologies reshaping everything. Embrace the shift, and it won't feel like the end of something but the beginning of an incredible transformation. Think back to the early days of the Internet in 1991. Who could have predicted the countless business models and innovations we now take for granted? The same kind of future is waiting for those who are ready to lean into the change.

Opportunities will come; you just need to be open and excited to embrace them. The most significant adjustment we need to make with this paradigm shift is the speed of this transformation.

Why This Book Matters: What You'll Find Inside

The following chapters are a deep dive into the drivers behind this shift, written in a way that is thought-provoking but easy to grasp. I wanted to make sure I painted a broad impact picture to give each reader an overall viewpoint. From that viewpoint, each reader can choose to study and become an expert in any given area, like Economic Singularity, Universal Equity, Natural language programming, ICOs, etc.

Each chapter unpacks not just the “what” but also the “why” and “how” of these changes. This is not a surface-level exploration; expect real-world examples, critical insights, and clear explanations of what’s coming, how it’ll affect you, and where the opportunities lie.

This is your guidebook for the future, whether you're a business leader, policymaker, or an individual looking to future-proof your skills.

Throughout the book, I'll challenge you to think bigger, push your imagination, and question assumptions about what's possible. This is your guidebook for the future, whether you're a business leader, policymaker, or an individual looking to future-proof your skills.

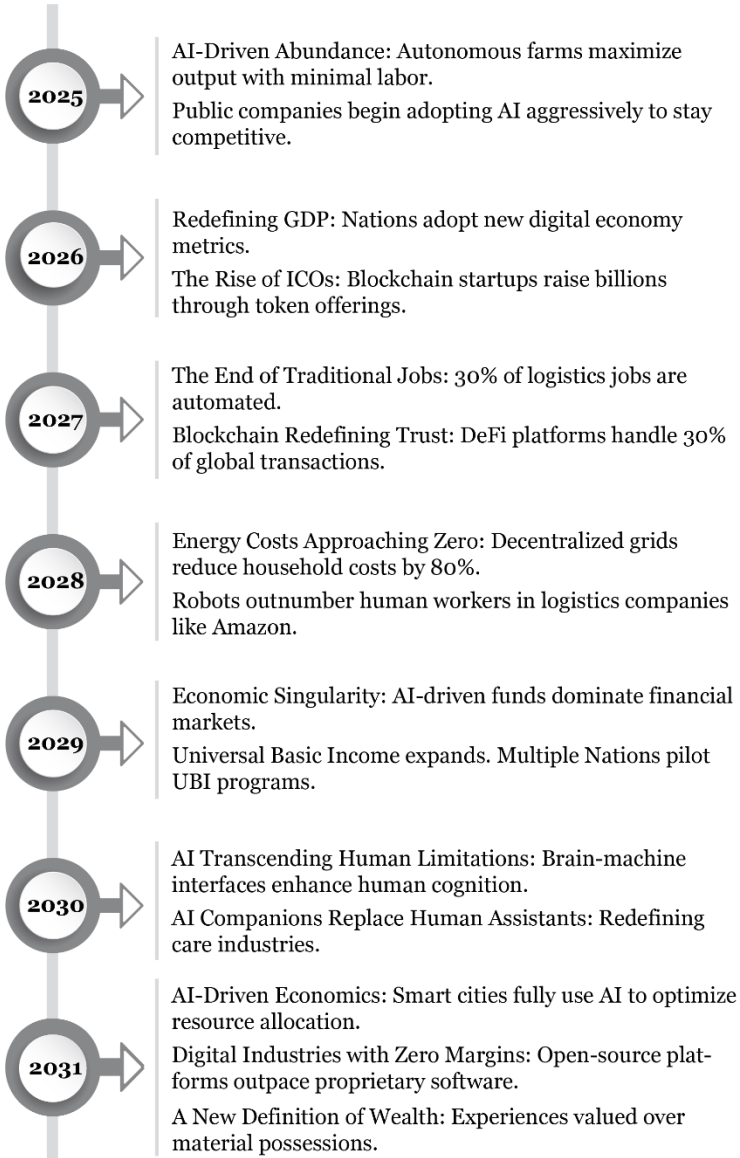
But let's be clear, this isn't just theory. It's about action. The insights in these pages are designed to spark ideas, guide decisions, and help you take proactive steps toward building your place in this emerging new world. From personal choices to corporate strategy, what you do next matters. And with these technologies converging faster than we ever thought possible, the future isn't waiting for anyone.

In Chapter 16, I will outline crucial actions that individuals, companies, and governments can take to proactively navigate the paradigm shift that lies ahead. This chapter will provide practical steps to help you prepare for the rapid technological, economic, and social changes that will define our future.

So buckle up, we're diving deep, and by the end, you'll have the knowledge, the tools, and the mindset to embrace the shift and create your path forward.

Tipping Point Timeline

Below is a timeline to reflect tipping points across various technologies. This timeline can be used as high-level time cadence to guide you in your preparation retooling journey.



“The future is yours to shape.

*The choices you make today will define your
next 30 years; are you prepared to make
those key decisions?”*