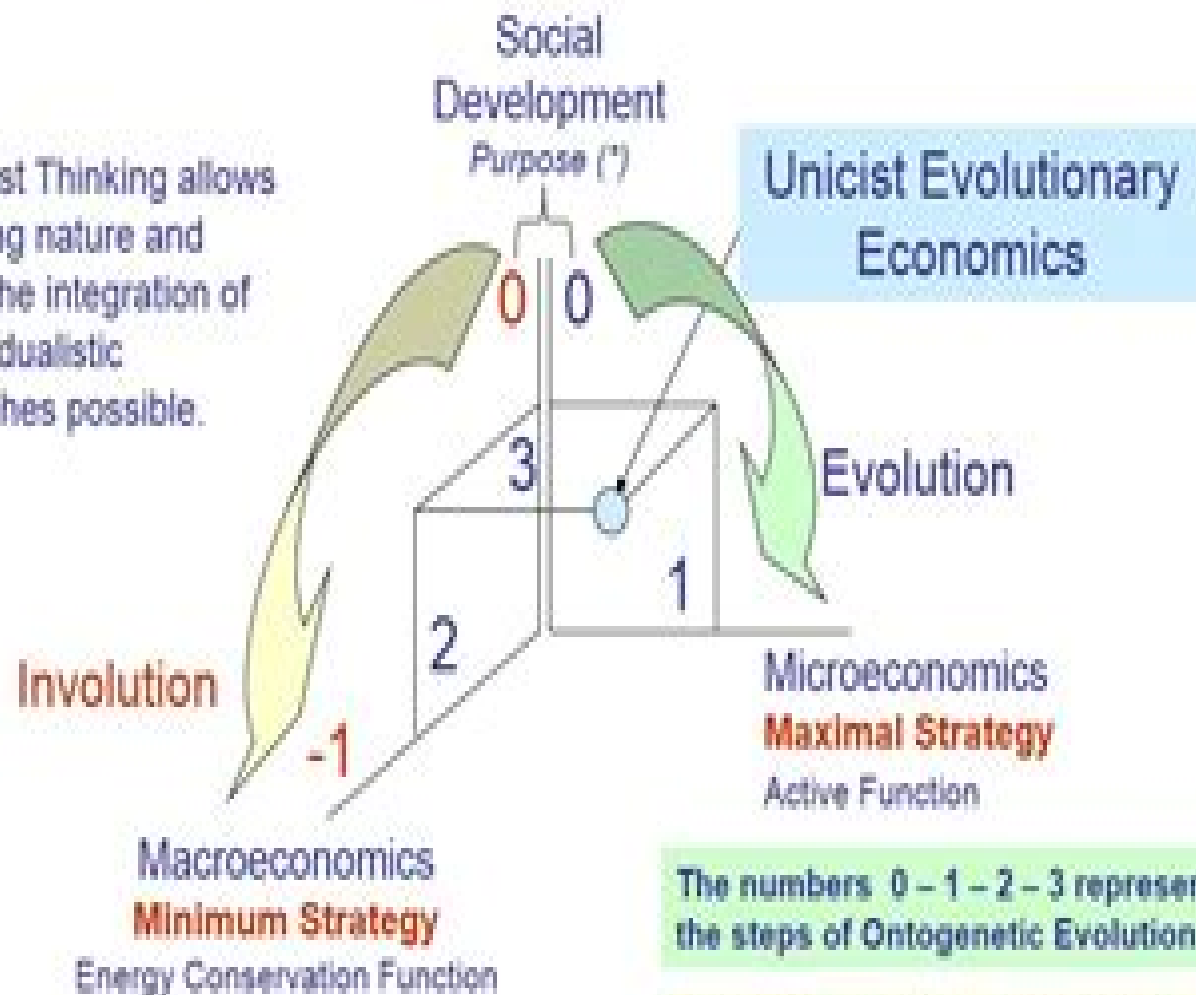


# The Unicist Ontology of Evolutionary Economics

Ontogenetic Map in Unicist Standard Language

(\*) Unicist Thinking allows emulating nature and makes the integration of the two dualistic approaches possible.



# Economic Evolution

**Sebastian Brünink**



## **Economic Evolution:**

The Evolution of Economies Patrick Spread, 2015-12-22 It is clear even to casual observation that economies evolve from year to year and over centuries Yet mainstream economic theory assumes that economies always move towards equilibrium One consequence of this is that mainstream theory is unable to deal with economic history The Evolution of Economies provides a clear account of how economies evolve under a process of support bargaining and money bargaining Both support bargaining and money bargaining are situation related people determine their interests and actions by reference to their present circumstances This gives the bargaining system a natural evolutionary dynamic Societies evolve from situation to situation Historical change follows this evolutionary course A central chapter of the book applies the new theory in a re evaluation of the industrial revolution in Britain showing how specialist money bargaining agencies in the form of companies evolved profitable formats and displaced landowners as the leading sources of employment and economic necessities Companies took advantage of the evolution of technology to establish effective formats The book also seeks to establish how it came about that a mainstream theory was developed that is so wildly at odds with the observable features of economic history and economic exchange Theory making is described as a process of intellectual support bargaining in which theory is shaped to the interests of its makers The work of major classical and neoclassical economists is contested as incompatible with the idea of an evolving money bargaining system The book reviews attempts to derive an evolutionary economic theory from Darwin's theory of evolution by natural selection Neoclassical economic theory has had enormous influence on the governance of societies principally through its theoretical endorsement of the benefits of free markets An evolutionary account of economic processes should change the basis of debate The theory presented here will be of interest immediately to all economists whether evolutionary heterodox or neoclassical It will facilitate the work of economic historians who complain that current theory gives no guidance for their historical investigations Beyond the confines of professional theory making many will find it a revelatory response to questions that have hitherto gone unanswered **Rethinking Economic**

**Evolution** Ulrich Witt, 2016-07-30 Modern economies never come to rest From institutions to activities of production trade and consumption everything is locked in processes of perpetual transformation and so are our daily lives Why and how do such transformations occur What can economic theory tell us about these changes and where they might lead Ulrich Witt's book discusses why evolutionary concepts are necessary to answer such questions While economic evolution is in many respects unique it nonetheless needs to be seen within the broader context of natural evolution By exploring this complex relationship Rethinking Economic Evolution demonstrates the significance of an evolutionary economic theory

*Foundations of Economic Evolution* Carsten Herrmann-Pillath, 2013-01-01 This book is an ambitious intellectual enterprise to build a naturalistic foundation for economics with amazingly vast knowledge of physical biological social sciences and philosophy Readers will discover that approaches and insights emergent in institutional studies social

neuroscience network theory ecological economics bio culture dualistic evolution etc are persuasively placed in a grand unified frame It is written in a good Hayekian tradition I recommend this book particularly to young readers who aspire to go beyond a narrowly specified discipline in the age of expanding communicability of knowledge and ideas Masahiko Aoki Stanford University US Carsten Herrmann Pillath s new book is an in depth application of natural philosophy to economics that draws up an entirely new framework for economic analysis It offers path breaking insights on the interactions between human economic activity and nature and outlines a convincing solution to the long standing reductionism controversy A must read for everyone interested in the philosophical underpinnings of economics as a science Ulrich Witt Max Planck Institute of Economics Jena Germany Big picture philosophy of economics drifted into a dull cul de sac as it became obsessively focused on falsifiability and rationality In this book Carsten Herrmann Pilath pushes the field back onto the open highway by locating economics in the larger frameworks of metaphysics evolutionary dynamics and information theory This is large scale ambitious synthesis of ideas of the kind we expect from time to time to see devoted to physics and biology Why should economics merit anything less But of course this kind of intellectual tapestry must await the appearance of an unusually devoted scholar with special patience and eccentric independence from the pressure for quick returns that characterizes academic life In the person of Hermann Pilath this scholar has appeared No one who wants to examine economics whole and in its richest context should miss his virtuoso performance in this book Don Ross University of Cape Town South Africa and Georgia State University US Herrmann Pillath s work attempts to bring to bear upon the discipline of economics perspectives from other discourses which have been burgeoning recently namely thermodynamics evolutionary biology and semiotics aiming at a consilience contextualized by economic activity and problems This marks the work as a contemporary example of natural philosophy which is now at the doorstep of a revival The overall perspective is that human economic activity is an aspect of the ecology of the earth s surface viewing it as an evolving physical system mediated through distributed mentality as expressed in technology evolution Knowledge is taken to be physical with a performative function as in Peirce s pragmatism Thus the social meanings of expectations prices and credit are found to be rooted in energy flows The work draws its foundation from Hegel and C S Peirce and its immediate guidance from Hayek Veblen and Georescu Roegen The author generates an energetic theory of economic growth guided by Odum s maximum power principle Economic discourse itself is reworked in the final chapter in light of the examinations of the previous chapters naturalizing economics within an extremely powerful contemporary framework Stanley N Salthe Binghamton University US An Oscar winning performance in the theatre of consilience It s hard to know which to praise first Carsten Herrmann Pillath s humility or his ambition He says his book is not a great intellectual feat because he pursues the humble task of putting together the ideas of others When he finally gets to economics he tries to be as simple as possible and to conceive of economics in terms of the basics at undergraduate level so to say On the other hand the scale of his ambition is to rethink the foundations of economics from

first principles while at the same time holding a running dialogue between contemporary sciences and classic philosophy. He is much too modest of course because *Foundations* is a major achievement but his modesty points to what makes it such a powerful treatise: the book is not about his preferences or prejudices; it is a scientific approach that aims at establishing truthful propositions about reality. That is much harder to achieve than grand theories or complicated mathematics because it amounts to a new modern synthesis of the field, an achievement on a par with Julian Huxley's whose own modern synthesis of evolutionary theories in the 1940s allowed for the explosive growth of the biosciences over the next decades. The structure of the book is simple enough, providing a framework for the naturalistic turn in economics. Starting from material existence, causation and evolution, Herrmann Pillath takes us through four fundamental concepts: individuals, networks, institutions and technology, before coming finally to the realm of economics proper, i.e. markets. However, Herrmann Pillath believes that the foundations of economics cannot be found within economics but only in dialogue with other sciences or what he calls the theatre of consilience. It is a theatre in which various characters come and go, where dialogue ebbs and flows, conflicts arise and are resolved, and where individual actions can be seen as concepts leading to higher levels of meaning as the plot unfolds. The magic of theatre, of course, is that the point of intelligibility, where the characters' actions and narrative resolve into meaningfulness, is projected out of the drama itself into the spectator. That is you, dear reader. So it is with economics as a discipline. Economics is a player in a much larger performance about what constitutes knowledge and how we know that. It is also a player in the economy it seeks to explain. To understand why money, firms, growth, prices, markets and other staples of economic thought emerge and function the way they do, it is necessary to situate the analysis beyond economics and the economy and to engage with developments across the human, evolutionary and complexity sciences. This is what Herrmann Pillath does, analyzing a breathtaking range of illuminating and sometimes challenging work along the way. We are treated to new ideas about the externalized brain, the evolution of knowledge in the Earth System, i.e. not just among humans, the role of signs and performativity in these processes as well as that of energetic transformations. But Herrmann Pillath is not satisfied with the modest task of bringing the best of modern scientific thought to bear on economic concepts and performances; he really does harbor a deeper purpose. The clue is in his apparently quixotic desire to hang on to philosophical insights associated with pre-evolutionary thinkers like Aristotle and Hegel and his apparently eccentric desire to place the semiotic philosophy of C. S. Pierce at center stage. But the patient observer will see that he is not seeking to change the facts by imposing idealist notions on them after the event. Instead, he is arguing for a change in the way we perform ourselves in the face of these facts. He is looking for a modern-day equivalent of Confucius or Socrates, one who can imagine values and beliefs that define the human species in a new way. For those who have eyes to see as the drama unfolds, it may be that we have found such a figure in Carsten Herrmann Pillath himself: modesty, ambition and all. This is Cultural Science as it should be done. John Hartley Curtin, University Australia and Cardiff University UK. *Creative Industries and Economic Evolution*

Jason Potts, 2011-01-01 This insightful book offers a new way of looking at the arts culture and the creative industries from the perspective of evolutionary economics The creative industries are key drivers of modern economies While economic analysis has traditionally advanced a market failure model of arts and culture this book argues for an evolutionary market dynamics or innovation based approach Jason Potts explores theoretical and conceptual aspects of an evolutionary economic approach to the study of the creative economy Topics include creative businesses and labour markets social networks innovation processes and systems institutions and the role of creative industries in market dynamics and economic growth

Innovation, Complexity and Economic Evolution Pier Paolo Saviotti, 2023-03-23 If evolutionary economics is to compete with neoclassical economics as a general purpose economic theory it needs to incorporate new aspects of socioeconomic reality such as institutions of all types including technical scientific and political Furthermore evolutionary economics needs to be able to provide policy implications at least as interesting as those of neoclassical economics Thus as this book argues evolutionary economics must become evolutionary political economy Innovation plays a central role in the book but not in the sense of providing a technologically determinist interpretation Rather the book argues that innovations do not emerge in isolation from other components of socioeconomic systems but coevolve with institutions infrastructures and organizational forms This concept of coevolution is absolutely central in the book and provides a link with theories of complexity In addition to providing an epistemological basis for evolutionary economics the link with complexity and coevolution offers the connection with evolutionary political economy Innovations and technologies do not emerge and develop in an institutional vacuum but interact with existing institutions and reshape them in addition to inducing the formation of new institutions In this process technologies and institutions reinforce each other providing a potential mechanism to transform socioeconomic systems The book also explores the policy implications of these innovative societies where wealth is created but unequally distributed The book is addressed to open minded economists social scientists who are dissatisfied with the approach of neoclassical economics technologists and policy makers

Economic Evolution, Learning, and Complexity Uwe Cantner, Horst Hanusch, Steven Klepper, 2012-12-06 The twelve papers in this collection grew out of the workshop on Economic Evolution Learning and Complexity held at the University of Augsburg Augsburg Germany on May 23 25 1997 The Augsburg workshop was the second of two events in the Euroconference Series on Evolutionary Economics the first of which was held in Athens Greece in September 1993 A special issue of the Journal of Evolutionary Economics 1993 4 edited by Yannis Katsoulacos on Evolutionary and Neoclassical Perspectives on Market Structure and Economic Growth contains selected papers from the Athens conference The Athens conference explored neoclassical and evolutionary perspectives on technological competition and increasing returns It helped to identify the distinguishing features of evolutionary scholarship The Augsburg workshop was more oriented toward exploring methodological issues in evolutionary economics of the papers employed new methods and related scholarship A number of methods such as genetic programming and experimental analysis some developed

new econometric techniques or raised new empirical issues in evolutionary economics and some relied on simulation techniques Twelve papers covering a range of areas were selected for this collection The papers address central issues in evolutionary and Schumpeterian accounts of industrial competition learning and innovation **Demand, Complexity, and Long-Run Economic Evolution** Andreas Chai, Chad M. Baum, 2019-05-11 The purpose of this contributed volume is to consider how global consumption patterns will develop in the next few decades and what the consequences of that development will be for the economy policymakers and society at large In the long run the extent to which economic growth translates into better living conditions strongly depends on how rising affluence and new technologies shape consumer preferences The ongoing rise in household income in developing countries raises some important questions Will consumption patterns always continue to expand in the same manner as we have witnessed in the previous two centuries If not how might things evolve differently And what implications would such changes hold for not only our understanding of consumption behavior but also our pursuit of more sustainable societies **Economics and Evolution** Geoffrey Martin Hodgson, 1996 How evolutionary ideas can be used to reconstruct economics **The General Theory of Economic Evolution** Kurt Dopfer, Jason Potts, 2007-09-27 The first book to chart the development of the field of evolutionary economics this book provides an integrated generic framework to define the rules of an economic system how they are coordinated and the causes and consequences of their change Packed with pedagogical features including essay and tutorial questions case studies and an extensive **Economic Evolution** Jack J Vromen, 1995-10-19 The new institutional economics offers one of the most exciting research agendas in economics today The book looks at the differences and similarities between the three main approaches **The Evolution of Economic and Innovation Systems** Andreas Pyka, John Foster, 2015-03-03 This book is at the cutting edge of the ongoing neo Schumpeterian research program that investigates how economic growth and its fluctuation can be understood as the outcome of a historical process of economic evolution Much of modern evolutionary economics has relied upon biological analogy especially about natural selection Although this is valid and useful evolutionary economists have increasingly begun to build their analytical representations of economic evolution on understandings derived from complex systems science In this book the fact that economic systems are necessarily complex adaptive systems is explored both theoretically and empirically in a range of contexts Throughout there is a primary focus upon the interconnected processes of innovation and entrepreneurship which are the ultimate sources of all economic growth Twenty two chapters are provided by renowned experts in the related fields of evolutionary economics and the economics of innovation **The Origin of Wealth** Eric D. Beinhocker, 2007-09-14 Over 6.4 billion people participate in a \$36.5 trillion global economy designed and overseen by no one How did this marvel of self organized complexity evolve How is wealth created within this system And how can wealth be increased for the benefit of individuals businesses and society In *The Origin of Wealth* Eric D Beinhocker argues that modern science provides a radical perspective on these age old questions with far

reaching implications According to Beinhocker wealth creation is the product of a simple but profoundly powerful evolutionary formula differentiate select and amplify In this view the economy is a complex adaptive system in which physical technologies social technologies and business designs continuously interact to create novel products new ideas and increasing wealth Taking readers on an entertaining journey through economic history from the Stone Age to modern economy Beinhocker explores how complexity economics provides provocative insights on issues ranging from creating adaptive organizations to the evolutionary workings of stock markets to new perspectives on government policies A landmark book that shatters conventional economic theory *The Origin of Wealth* will rewire our thinking about how we came to be here and where we are going *The Handbook of Evolutionary Economic Geography* Ron A. Boschma, Ron L. Martin, 2010 This wide ranging handbook studies and defines the paradigm of evolutionary economic geography The distinguished contributors highlight the key conceptual theoretical and empirical advances and present a clear statement of their aims objectives and methods **Economic Evolution and Revolution in Historical Time** Paul Rhode, Joshua Rosenbloom, David Weiman, 2011-01-28 Papers originally presented at a conference sponsored by Stanford University's Institute for Economic Policy Research SIEPR and held Sept 26-27 2008 Routledge Handbook of Evolutionary Economics Kurt Dopfer, Richard R Nelson, Jason Potts, Andreas Pyka, 2023-11-27 While dating from post Classical economists such as Thorstein Veblen and Joseph Schumpeter the inception of the modern field of evolutionary economics is usually dated to the early 1980s Broadly speaking evolutionary economics sees the economy as undergoing continual evolutionary change Evolutionary change indicates that these changes were not planned but rather were the result of innovations and selection processes These often involved winners and losers but most importantly they resulted in actors learning what was and was not working Evolutionary economics in contrast to mainstream economics emphasises the relevance of variables such as technology institutions decision rules routines or consumer preferences for explaining the complex evolutionary changes in the economy In so doing evolutionary economics significantly broadens the scope of economic analysis and sheds new light on key concepts and issues of the discipline This handbook draws on a stellar cast list of international contributors ranging from the founders of the field to the newest voices The volume explores the current state of the art in the field of evolutionary economics at the levels of the micro e.g. firms and households meso e.g. industries and institutions and macro e.g. economic policy structure and growth Overall the Routledge Handbook of Evolutionary Economics provides an excellent overview of current trends and issues in this rapidly developing field *The Foundations of Evolutionary Institutional Economics* Manuel Scholz-Wackerle, 2013-08-15 Generic institutionalism offers a new perspective on institutional economic change within an evolutionary framework The institutional landscape shapes the social fabric and economic organization in manifold ways The book elaborates on the ubiquity of such institutional forms with regards to their emergence durability and exit in social agency structure relations Thereby institutions are considered as social learning environments changing the knowledge base



of the economy along generic rule sets in non nomological ways from within Specific attention is given to a theoretical structuring of the topic in ontology heuristics and methodology Part I introduces a generic naturalistic ontology by comparing prevalent ontological claims in evolutionary economics and preparing them for a broader pluralist and interdisciplinary discourse Part II reconsiders these ontological claims and confronts it with prevalent heuristics conceptualizations and projections of institutional change In this respect the book revisits the institutional economic thought of Thorstein Veblen Friedrich August von Hayek Joseph Alois Schumpeter and Pierre Bourdieu A synthesis is suggested in an application of the generic rule based approach Part III discusses the implementation of rule based bottom up models of institutional change and provides a basic prototype agent based computational simulation The evolution of power relations plays an important role in the programming of real life communication networks This notion characterizes the discussed policy realms Part IV of ecological and financial sustainability as tremendously complex areas of institutional change in political economy leading to the concluding topic of democracy in practice The novelty of this approach is given by its modular theoretical structure It turns out that institutional change is carried substantially by affective social orders in contrast to rational orders as communicated in orthodox economic realms The characteristics of affective orders are derived theoretically from intersections between ontology and heuristics where interdependencies between instinct cognition rationality reason social practice habit routine or disposition are essential for the embodiment of knowledge This kind of research indicates new generic directions to study social learning in particular and institutional evolution in general

**General Theory of Economic Evolution, The. (9780203507407) (KEN-0087/08).** Kurt Dopfer, 2007

*Evolutionary Concepts in Contemporary Economics* Richard W. England, 1994 This anthology reports on a number of contemporary attempts to introduce evolutionary concepts into economic analysis *Environmental Economics and Sustainability* Brian Chi-ang Lin, Siqi Zheng, 2017-02-16 Environmental Economics and Sustainability presents a collection of peer reviewed research articles contributed by international experts that reveal the current state of our knowledge in the field of environmental economics Presents the latest research results on a plethora of issues relating to environmental economics and sustainability Features original contributions from top experts in the field from around the world Addresses several of the contemporary challenges of sustainability while infusing new energy into the field of environmental economics Covers myriad topics relating to environmental economics and sustainability including climate change air pollution CO2 emissions recycling and the international environmental agreement *The Global Dimension of Economic Evolution* Kurt Dopfer, 1996-02-29 This volume on evolutionary approaches to economic development and growth is a member of a family of special volumes that Springer has published on Evolutionary Economics recently The present volume has excellent predecessors There is a special volume on Evolution in Markets and Institutions edited by Ulrich Witt and another on Evolutionary and Neoclassical Perspectives on Market Structure and Economic Growth edited by Yannis Katsoulacos And

there are more in the pipeline The volumes already published reflect the broad ranging interests of evolutionary economists and within the scope delineated they are devoted to major research areas of the discipline The editorial intention behind the venture of special volumes has been to bundle together some of the research areas in order to sharpen the problem focus and to generate research synergies within major research fields We may somewhat obviously define a research field by its research topics For the present purpose however we may wish to conceive the research conducted by evolutionary economists as belonging to either a research area that is inspired in its problem perspective by neoclassical economics or to one that is not The very success of the critique of the neoclassical paradigm relied on a preoccupation with its research scope and questions Evolutionary economics has scored marvelously in challenging major neoclassical stands and neoclassical economics may never be quite the same in the future

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