

The Unicist Research Institute

Pioneers in Complexity Science Research since 1976

Expanding the 4th Industrial Revolution

The Unicist Research Institute was one of the precursors of the 4th Industrial Revolution that introduced the unicist ontogenetic maps to manage complexity and deal with adaptive systems. It developed the epistemological structure of complexity sciences to deal with adaptive systems and environments. This drove to the development of the conceptual approach to adaptive systems that defines the root causes and root drivers of their evolution. The latest development is the Unicist Artificial Intelligence that allows managing adaptive systems and hinders the human bias in Artificial Intelligence.



Research in Complexity Sciences

Researching the Ontogenetic Maps of Adaptive Environments

The Unicist Research Institute (TURI) has been, since 1976, the pioneer in the research of complexity where the roots of evolution and the ontogenetic maps of the structure of concepts were discovered. It is specialized in the research of the roots of evolution, beginning with Natural Sciences and ending with Social Sciences.

In the business world, TURI developed a Root Cause Library based on the ontogenetic maps of concepts, which define the nature of business functions that allow managing the root causes of problems and the root drivers of solutions. More than 5,000 researches have been developed since 1976 using the unicist research technology for complex adaptive environments. The main

+110 Million USD
Investment
in **R&D**
at replacement costs

countries that originated these researches were: US, DE, UK, FR, JP, SE, CA, CH, IN, BR, AR, CAT, RU, CN, AU. The discovery of the structure of the intelligence that underlies nature was the root driver of the development of the Unicist Artificial Intelligence.

In the field of social evolution, to understand the evolution of countries, the Future Research Lab completed the research of 70 countries' archetypes.

TURI was founded by Peter Belohlavek as an Unincorporated Association that was transformed into an Incorporated Company to facilitate its worldwide growth.

About
The Unicist Research Institute
<https://www.unicist.org/about-us.php>

Main Discoveries

Access the main discoveries and developments in the field of basic and applied sciences to living beings and complex adaptive entities.

In Basic and Life Science Research

<https://www.unicist.org/scientific-dissemination/basic-research.php>

In Individual Evolution

<https://www.unicist.org/scientific-dissemination/human-intelligence.php>

In Healthcare

<https://www.unicist.org/scientific-dissemination/healthcare.php>

In Business Evolution

<https://www.unicist.org/scientific-dissemination/business.php>

In Countries Evolution

<https://www.unicist.org/scientific-dissemination/social-evolution.php>

In Education

<https://www.unicist.org/scientific-dissemination/education.php>

In Future Research

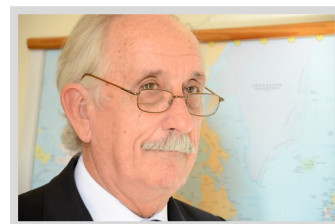
<https://www.unicist.org/scientific-dissemination/basic-research.php>

More information: <https://www.unicist.org>



[Access](#)

Peter Belohlavek



He discovered the ontogenetic Intelligence of nature that defines the root causes of evolution. This discovery expanded the boundaries of sciences by creating the scientific approach to natural and artificial adaptive systems.

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Medicine

The unicist complexity science approach allowed defining the scientific foundations of medicine and discovering, among others, the unicist ontogenetic maps of:

Health, amino acids, destructive tests in biology, clinical trials, viruses, chronic diseases, addictions, stress, cures, immune systems, therapeutics, diseases, medical specialties, universal diagnostics, research and researchers and prevention.

These researches sustain the value propositions of The Unicist Research Institute in the fields of drug development and patient centricity for healthcare organizations.

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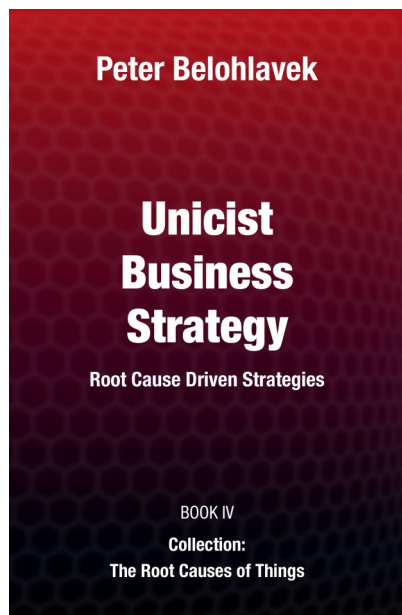


The Unicist System to Emulate Strategies

The Unicist Business Strategy is a breakthrough and a back to basics in business strategy building. The Unicist Strategy introduced a paradigm shift in strategy building by emulating the intelligence of nature and human “adaptive” intelligence.

The Unicist System is based on the management of the concepts that underlie business functions and drive the root causes of their functionality.

The Unicist Strategy drove to the development of the Unicist Artificial Intelligence by emulating the rules of the intelligence that underlies nature and the unicist logic that allows managing adaptive environments.



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Access to this New Stage

The Unicist Strategy emulates the intelligence of nature by developing a maximal strategy to grow and a minimum strategy to ensure results.

This access is given by a program that provides the logical framework and inference rules to define the actions and business objects that are needed to emulate strategies to ensure business results in adaptive environments.

The unicist strategic emulation is applied to each business function that is involved in a business process to define the actions, processes and business objects to be used to develop alternative strategies and define the necessary testing process.

This approach is based on the Unicist System that allows emulating strategies. It uses the Unicist AI Monitor to emulate business functions to define the processes and business objects that are needed to achieve the planned results.

Learning through Real Applications

This program is composed by four Micro-clinics that provide the fundamental knowledge to develop strategies in a specific field of action. These micro-clinics are based on the discussion of real applications of the unicist strategy that allows apprehending the structure and mechanics of the unicist strategic approach.

This program is based on reflection driven education and includes the use of the Unicist System with artificial intelligence to develop alternative strategies to solve a real problem that is being managed.

The real problem solving is sustained by counselors and is based on the emulator that provides the conceptual structure for the solution of the problem that is being solved. It guides the solution building process and the pilot testing process until the goals have been achieved.

The use of the emulator drives the learning of a strategic approach to solution building. Finally, the case includes the development of the necessary action plans and pilot tests to confirm their functionality.

Main Application Fields

- **Business Strategy**
- **Marketing Strategy**
- **Financial Strategy**
- **Organizational Strategy**
- **People Management**
- **IT Strategy**
- **Organizational Learning Strategy**



Learn more about the program: <https://www.unicist.org/academic/executive-program/intro-unicist-strategy.php>



Unicist
Confederation

Intelligent Management Systems

The Unicist Confederation is the business arm of The Unicist Research Institute (TURI) that provides Unicist Technologies as a Service to the market. It is a multi-local, cooperative confederation, sited in Delaware (USA).

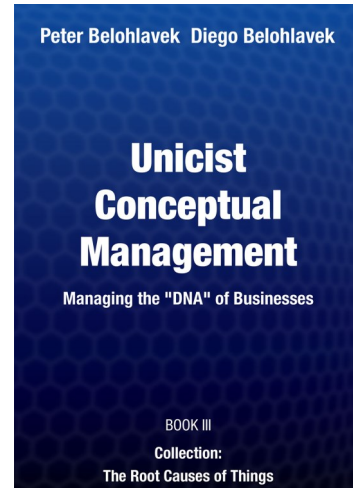
The four pillars of the unicist conceptual management approach to business evolution are the Unicist Strategy, Conceptual Management, Root Cause Management and Maximal & Minimum Strategy Actions.

These pillars allowed building Intelligent Root Cause Management Systems to build business solutions and develop business objects.

Some of the companies that use business objects are: Airbus, Amazon, Apple, BBC, Boeing, Dassault Systemes, Dupont, Ericsson, Facebook, General Electric, Google, Hilton, Honda, Hyundai, LinkedIn, Lufthansa, Mapfre, Mayo Clinic, Michelin, Novartis, Open Text, P&G, Pfizer, SAP, Siemens, Tata Motors, Toyota, Unilever, Walmart, Walt Disney World and Youtube.

More information:

<https://www.unicist.net>



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Industry 4.0: Intelligent Root Cause Management Systems

Industry 4.0 is an adaptive business approach that requires managing the root causes of processes. The Unicist Logic, used to manage the ontogenetic maps of adaptive processes, allowed developing intelligent systems to manage the root causes of adaptive systems and environments.

Unicist Artificial Intelligence is based on the ontogenetic maps of the functions of the adaptive systems or environments that are being managed. They are an emulation of the triadic ontogenetic intelligence of nature and define the structure of the unicist artificial intelligence.

These intelligent root cause management systems allow building structural solutions to develop sustainable growth.

- **Unicist Business Strategy System**

The Unicist Strategy System is an Intelligent Decision Support System, based on the emulation of the intelligence of nature, to develop synchronic maximal strategies to grow and minimum strategies to ensure results. [Access](#)

- **Pilot Test Driven Market Lab System**

The Unicist Market Lab is an Intelligent Decision Support System to manage and influence the root causes of buying processes. It has been developed to foster the growth of B2C and B2B markets. [Access](#)

- **Unicist Root Cause Management System**

The Unicist Root Cause Management System is an intelligent knowledge system developed to manage the conceptual structures and root causes of business functions and to develop the conceptual design of solutions. [Access](#)

- **In-company Corporate University**

The Unicist Education 4.0 is focused on managers and high potentials to deal with the adaptive aspects of business management. It works as a Teaching Hospital in Business. [Access](#)

- **In-House Unicist Coaching System**

The Unicist Coaching 4.0 is focused on dealing with the adaptive aspects of businesses, integrating the coachees, the projects and the business to develop structural solutions. [Access](#)

- **In-House Unicist Talent Development System**

The objective of this system is to empower the talents of the participants introducing them into a conceptual approach to businesses using the support of the Unicist AI Monitor. [Access](#)



Unicist
Corporate University

Unicist Strategic Management

Working as a Solution Factory

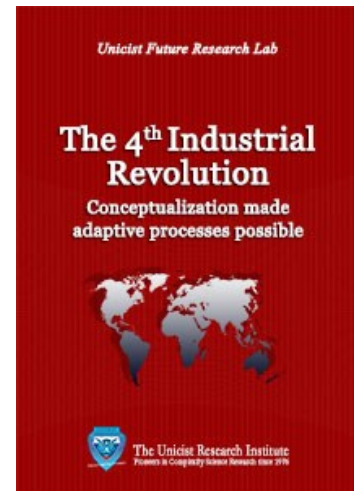
The Unicist Corporate University (UCU) is a solution factory for high potentials that works as a Teaching Hospital in Business using root cause management and an Action-Reflection-Action approach to solve business problems. We provide individuals with the support of the Unicist AI Monitor for the development of solutions.

The four pillars of the Solution Factory are the Real Case Solutions with each participant, the Conceptual Design, the Unicist Root Cause Management and the Unicist Counselor's support.

Real Solutions with Each Participant

The unicist educational programs are driven by the real solution that each participant develops with the support of counselors. For this purpose, there is a team of counselors to sustain the development of the solutions in the different fields.

The programs are developed in an environment of virtual collaboration. This implies that virtual communication tools are being used to sustain the real solution building processes and the development of the micro-clinics.



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The Unicist AI Monitor

The Unicist Artificial Intelligence Monitor is an adaptive interface that provides support for the development of business solutions. Based on the use of the ontogenetic maps of business functions that have been researched, it allows finding the root causes of adaptive systems.

Unicist Artificial Intelligence emulates the human reflection process to apprehend the concepts of complex adaptive systems and environments.

Dealing with Industry 4.0

Industry 4.0, as a concept, can be synthetically defined as the "revolution of adaptive business processes".

Adaptability requires managing the concepts and fundamentals of the business functions, which allow managing the root causes of market behavior, the root causes of businesses processes and the root causes of industrial processes to ensure customer satisfaction, productivity and quality.

More information:

<https://www.academic.unicist.org>

In-company Universities: Solutions Building Factories

The Unicist In-company Universities are organized to develop structural solutions using the Unicist Root Cause Management approach.

The activities of these Universities might include the development of structural solutions for the companies, their clients, providers, distributors or associates.

They are based on the use of the unicist conceptual design methodology and the unicist object driven technologies. These technologies are transferred as a service (TaaS).

Future Research & Future Scenario Building

Unicist Country Future Research

The Unicist Approach to Future Research is used for the building of future scenarios of countries and markets.

It is based on the unicist ontological structure of the particular reality that is found in the past, the use of the data of the present and an inference of the future based on the use of a double dialectical logic.

The unicist approach to future research is based on inferring the future based on the laws of evolution established by the ontogenetic intelligence of nature, which allowed developing the unicist ontology of evolution.

It has to be considered that the evolution of technologies is the operational driver of ideologies, ethics and social evolution, which implies that the technological trends define alternative future scenarios.



Unicist Country Future Research
<https://www.unicistinstitute.net>



XI International Unicist Conference

The XI International Unicist Conference has two core objectives:

- 1) The presentation of the global social, economic, political business trends 2019/2020.
- 2) Honor the achievements in the field of business objects development that emulate the organization of nature.

Access the Conference:

<https://www.unicist-conferences.net>

Unicist Archetypes of Countries

• Algeria • Argentina • Australia • Austria • Belarus • Belgium • Bolivia • Brazil • Cambodia • Canada • Chile • China • Colombia • Costa Rica • Croatia • Cuba • Czech Republic • Denmark • Ecuador • Egypt • Finland • France • Georgia • Germany • Honduras • Hungary • India • Iran • Iraq • Ireland • Israel • Italy • Japan • Jordan • Libya • Malaysia • Mexico • Morocco • Netherlands • New Zealand • Nicaragua • Norway • Pakistan • Panama • Paraguay • Peru • Philippines • Poland • Portugal • Romania • Russia • Saudi Arabia • Serbia • Singapore • Slovakia • South Africa • Spain • Sweden • Switzerland • Syria • Thailand • Tunisia • Turkey • Ukraine • United Arab Emirates • United Kingdom • United States • Uruguay • Venezuela • Vietnam

Learn about Future Scenario Building



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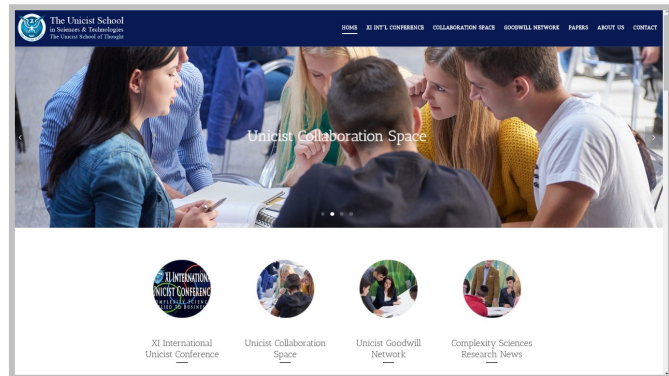
The Unicist School in Sciences & Technologies The Unicist School of Thought

Participate...

The Unicist School fosters the dissemination of the 4th Industrial Revolution and of Root Cause Management in the world, introducing an approach to develop structural solutions in adaptive environments.

The fact that concepts drive human actions and define the root causes of things drove to the development of Unicist Root Cause Management that sustains the unicist approach. This development drove personal and professional management towards a superior level of possibilities.

The Unicist School is a school of thought that fosters the management of the concepts of what is being done. It has more than 90,000 followers in 56 countries and is a participation and collaboration space for members of the global community.



[Participate](#)

Management in the 4th Industrial Revolution

Industry 4.0 manages business as adaptive systems increasing customer orientation, productivity and quality. It has to be considered that the Unicist Theory and its applications were a precursor of the Industry 4.0 concept.

This theory was developed to understand the evolution of adaptive entities and to manage adaptive systems and environments.

The Unicist Approach became mature in the market when the hard technologies allowed developing adaptive industrial processes and gave birth to Industry 4.0.

Industry 4.0, as a concept, can be synthetically defined as the “revolution of adaptive business processes”. Adaptability requires managing the concepts and fundamentals of the business functions to ensure customer satisfaction, productivity and quality.

Adaptive solutions can only be managed by structured flexible processes with a high level of productivity and quality. The following technologies are part of Industry 4.0:

- Unicist Business Strategy
- Unicist Conceptual Management
- Unicist Root Cause Management
- Unicist Root Cause Marketing

As the previous industrial revolutions, Industry 4.0 will coexist with the previous stages, providing a significant competitive advantage for those who can enter this stage.



UNICIST ROOT-CAUSE LIBRARY

As a Web Service

The Unicist Standard

SAVE ENERGY



The Unicist Standard provides the conceptual structures that allow managing the root causes of problems and the root drivers of solutions. It defines the structures and the unified fields that have to be managed in an adaptive system in order to organize it and achieve the results that have been defined as possible.

Access The Unicist School:
<https://www.unicist-school.org>



Scientific Contributions

In Scientific Research - 1980: Development of a unicist ontological methodology for complex systems research, substituting the systemic approach to research adaptive systems. **2014:** The integration of the unified field of macro and micro behavior. **2015:** Development of the destructive and non-destructive tests to research adaptive environments.

In Life Sciences - 1988: Discovery of the functional structure that regulates evolution and the unicist ontological structure of living beings as a unified field. **2006:** Discovery of the unicist ontological algorithm of evolution and involution. **2008:** Discovery of the two types of integration, complementation and supplementation, of elements in complex adaptive systems. **2012:** Discovery of the unicist ontology of biological entities. **2013:** Confirmation of the unicist ontology of viruses. **2014:** Discovery of the ontological structure of chronic diseases. **2014:** Discovery of the structure of therapeutics. **2015:** Discovery of the ontological structure of health. **2016:** Development of the Scientific Foundations of Medicine.

In Complexity Sciences - 1998: Development of the unicist ontology emulating the ontogenetic intelligence of nature. **2003:** Discovery of the anti-concepts that work as antimatter. **2006:** Development of objects to manage human adaptive systems emulating the structure of nature. **2011:** Discovery of the unicist ontology of complex adaptive systems. **2014:** Discovery of the behavior of objects in complex adaptive systems. **2015:** Discovery of the essential opposition but operational complementation between the active function and the energy conservation function of concepts. **2017:** Discovery of the unicist ontology that integrates the wide and restricted contexts. **2017:** Discovery of the origin of root causes in adaptive environments.

In Information Sciences - 2002: Development of unicist ontogenetic based ontologies replacing the empirically structured ontologies. **2014:** Development of unicist adaptive robotics. **2015:** Development of prototypes. **2016:** Discovery of the nature of conceptual design.

In Future Research and Strategy - 1984: Modeling of the ontological structures that allow inferring the evolution developing the ontogenetic maps of human adaptive systems. **2014:** Confirmation of the functionality of ethical intelligence in future research. **2015:** Discovery of the unicist ontology of personal strategies. **2016:** Discovery of the nature of entrepreneurial strategies. **2017:** Discovery of the double dialectical tactics.

In Logic - 1986: Development and formalization of the integrative and the unicist logic. **2013:** Functionality of Dualistic Logic in complex environments. **2013:** Discovery of the structure of aprioristic fallacies.

In Anthropology - 1986: Discovery of the "invariables" of human behavior. **1997:** Discovery of the double dialectical behavior. **2008:** Discovery of the anthropological lifestyles. **2010:** Discovery of the institutional and social viruses. **2012:** Discovery of the integration of ontogeny and phylogeny. **2012:** Discovery of the stagnant survivors' role in societies. **2012:** Discovery of the unicist ontological structure of aptitudes, attitudes and intentions. **2013:** Development of the unicist ontology of cultural adaptiveness & over-adaptiveness. **2014:** Synthesis of Conceptual Anthropology. **2014:** Discovery of the Cultural, Institutional, Individual and Social Archetypes. **2015:** Discovery of the functionality of rationalism and subjectivism as social and individual addictions. **2016:** Discovery of the nature of innovation processes. **2017:** Discovery of the context of social dysfunctional utopias.

In Economic Science - 1989: Discovery of the unicist ontological structure of Economics. **1998:** Discovery of the unicist ontological algorithm of the price elasticity of demand. **2004:** Discovery of the ontogenetic structure of economic models and their functionality. **2011:** Discovery of the ontology of currency and inflation. **2012:** Discovery of the ontology of the industrialization level. **2012:** Discovery of the unicist ontology of the overcoming of scarcity. **2012:** Pricing of Futures and Options. **2012:** Discovery of the unicist ontology of speculative manipulation. **2014:** Synthesis of Conceptual Economy. **2015:** Discovery of the unicist ontology of economic freedom.

In Political Science - 1990: Development of the ontological algorithm and the ontogenesis and phylogeny of ideologies and their functionality. **2013:** Development of the unicist ontology of Social, Economic and Political Democracy.

In Social Sciences - 1993: Discovery of the collective unconscious and the unicist archetypes of cultures. **2012:** Discovery of the role of stagnant survivor elites in the stagnation of segments or cultures. **2016:** Discovery of the nature of social networks.

In Linguistics - 2004: Discovery of the unicist ontological algorithms of natural, ambiguous and figurative languages and the unicist ontology of words. **2014:** Development of semantic objects. **2015:** Discovery of the ontological structure of subliminal communication.

In Mathematics - 1996: Development of the conceptual basis of interdependent, dependent and independent variables. **2014:** Development of the mathematical foundations of reality indicators.

In Philosophy - 1994: Development of the unicist ontology integrating philosophy, science and action in a unified field. **1997:** Refutation of Hegel's and Marx's dialectics and the formulation of the laws of the double dialectics.

In History - 2000: Development of a historical analysis methodology based on the unicist double dialectics.

In Cognitive Science - 2001: Development of a methodology to construct knowledge with existing information through an integrative logic. **2002:** Development of the unicist reflection methodology to deal with the nature of reality. **2006:** Discovery of the object driven organization of mental processes and the development of cognitive objects. **2008:** Development of the ontological algorithms of fundamental analysis. **2013:** Development of the unicist ontology of erudition and wisdom (observers vs. participants). **2014:** Discovery of the structure of the emulation of reality. **2015:** Discovery of the unicist ontology of conceptualization.

In Education - 1979: Discovery of the ontogenetic algorithms of learning which has given scientific sustainability, amongst others, to Piaget. **2014:** Discovery and development of learning objects. **2015:** Development of Reflection Driven Education. **2016:** Discovery of the nature of learning by teaching.

In Psychology - 1984: Discovery of human ontointelligence to deal with adaptive systems. **2003:** Discovery of the unicist ontological structure of fallacies, the functionality of anti-intelligence and anti-intuition. **2004:** Discovery of the double dialectical thinking process. **2005:** Discovery of the unicist ontology and evolution laws of human essential complexes. **2011:** Discovery of the ontology of conscious behavior. **2012:** Discovery of the ontology of complementation of thinking processes. **2012:** Discovery of the unicist ontology of psychopathy. **2014:** Discovery of the structure of subliminal decision-making. **2014:** Synthesis of Conceptual Psychology. **2015:** Functionality of concepts as behavioral objects. **2016:** Discovery of the nature of human metamorphosis. **2016:** Discovery of the functionality of thinking processes. **2017:** Discovery of the context of personal dysfunctional utopias. **2017:** Discovery of the nature of self-criticism.

In Semiology - 2012: Discovery of the unicist ontology of semiosis as a complex adaptive system. **2015:** Development of semiotic role objects. **2017:** Development of the semiotic research groups.