The Unicist Research Institute
Pioneers in Complexity Science Research since 1976

The Unicist
Evolutionary Approach
The Unicist Research Institute (TURI) is a private global decentralized research boutique that has been, since 1976, a pioneer in the research of complexity, where the roots of evolution and its fundamentals were discovered.

It is specialized in the research of the roots of evolution, beginning with Natural Sciences and ending with Social Sciences.

The applied research developed since 1976 using complexity science research methodology was centrally focused on individual, institutional and social evolution.

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

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
The Unicist Evolutionary Approach

The unicist evolutionary approach provides the cognitive systems, the strategic approach and the educational model to deal with the adaptiveness introduced by the 4th Industrial Revolution. This revolution fosters growth, adaptability, productivity, quality, customer orientation and sustainability by managing the unified field of industries.

The context of the cognitive systems is defined by:

1) **4th Industrial Revolution**, integrating digital, physical and biological systems: https://youtu.be/Ko2esJeGsrI

2) **Industry 4.0.** that introduces adaptiveness, productivity, quality, customer orientation and sustainability: https://youtu.be/oivUopv2xyw

3) **First Principles Methods**, that allow dealing with fundamentals and root causes: https://youtu.be/NV3sBlRgzTI

4) **Artificial Intelligence**, that emulates human intelligence to build knowledge: https://youtu.be/Ls1_tqlpMww

5) **Big Data Analytics**, to develop predictive analytics using unstructured, semi-structured and structured data. https://youtu.be/LUWacLuCBzo

6) **Cognitive Computing**, that allows transforming data into reliable knowledge: https://youtu.be/DF3CUra_sYg

### Unicist Cognitive Systems

Cognitive systems are part of the solutions introduced by the 4th Industrial Revolution. The purpose of cognitive systems is to interpret reality.

The unicist cognitive systems became possible due to the research on the root causes of social, institutional and individual behavior that discovered that the concepts and fundamentals that underlie social and business functions define the root causes of their functionality.

The Unicist Cognitive Systems were built upon the information provided by the more than 5,000 researches developed since 1976 at The Unicist Research Institute.

### Unicist Artificial Intelligence

The discovery that the actions of people are driven by the concepts they have changed the focus of the research on human intelligence and artificial intelligence.

This discovery, integrated with the discovery of the triadic functionality of the ontogenetic intelligence of nature and human intelligence, allowed developing the UAI, which emulates human conceptual intelligence and allows apprehending the drivers of human actions.

These discoveries drove to the development of the unicist ontogenetic maps that define the concepts and fundamentals of the functionality of things.

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**The Unicist Evolutionary Approach**

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* Developed by Peter Belohlavek at The Unicist Research Institute
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 cognitive systems to manage the root causes of adaptive systems and environments.

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

Unicist Cognitive Systems to Manage Root Causes

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 cognitive 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. These cognitive systems allow building structural solutions to monetize businesses, develop sustainable growth and increase profitability.

- **Unicist Business Diagnostics System**
  Access

- **Unicist Business Strategy System**
  Access

- **Pilot Test Driven Market Lab System**
  Access

- **Unicist Root Cause Management System**
  Access

- **Unicist In-House Coaching System**
  Access

- **In-House Unicist University for Managers & High Potentials**
  Access

- **Unicist In-House Talent Development System**
  Access
Unicist Business Strategies in the 4th Industrial Revolution

The Unicist Corporate University provides unicist strategic approaches to businesses, based on managing the concepts of business functions. It introduces the “Industry 4.0” concept in businesses. The Unicist Strategy is a paradigm shift in strategy building that introduced the development of value adding strategies that are synchronous with value earning strategies to generate growth.

The participants of the programs use Unicist Cognitive Systems, that include Unicist AI Monitors, to develop strategies to generate solutions and ensure the results to be achieved.

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.

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.

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).
The Unicist Cognitive System applied to Future Research
Unicist Country Future Research

The unicist system for 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 system for 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 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

XI International Unicist Conference

The XI International Unicist Conference has two core objectives:

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

Learn about the Unicist System in the Social Field

Access
Participate...

The Unicist School is a school of science and technology that fosters the use of the unicist evolutionary approach to build sustainable growth at a micro-macro-economic and social level.

It is a school of thought that proposes emulating nature, by managing the unified field of adaptive environments and the root causes of things to develop structural solutions in the social and economic fields.

This approach is materialized by the use of unicist strategies, that emulate the ontogenetic intelligence of nature, and allow developing maximal strategies to grow and minimum strategies to ensure survival.

With more than 100,000 followers in 56 countries, it is a participation and collaboration space for members of the global community.

The Unicist Cognitive Systems 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 and gave birth to the Unicist Cognitive Systems.

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

The Unicist Cognitive Systems 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.
In Scientific Research - 1980: Development of a unicast 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 History - 2000: Development of a historical analysis methodology based on the unicast double dialectics.


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

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