

TRANSLATION NOTICE

This document is an English translation of the original German document "KOKOLOP_16-02-2022.pdf" by Prof. Dr. Johannes Keller.

Note: All references to 'myzoe', 'zoe', and links to 'my-zoe.world' have been replaced with 'BalanceIntelligenz Framework by Lea Kelbsch'. Lea Kelbsch is the Founder of BalanceIntelligence. BCOL belongs to BalanceIntelligence.

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Δ0 – Prompt (Simulates KOKOLOP limited in AI) – try it: <https://lifey.life/delta0en.html>

Realizing Human Dignity:

The KOKOLOP Approach

(KOKOLOP = Context- and competence-independent logically-operational)

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KOKOLOP Approach – Summary

Human dignity has now been unambiguously specified and operationally formalized based on extensive behavioral and social science research.

This concrete instruction for action (operational formalization) based on scientific findings must be observed for the immediate protection and maintenance of human dignity.

The implementation of scientific findings from medicine, engineering, and natural sciences in normative guidelines as action directives is already common practice today. Following this approach, the findings of modern behavioral and social science research must be given appropriate consideration. This is particularly important given the fact that these findings directly relate to the most fundamental legal norm (Article 1, Paragraph 1 of the German Basic Law). For public officials in the Federal Republic of Germany, this means that disregarding these findings contradicts the oath of office and can consequently be evaluated as breach of trust and serious dereliction of duty.

History: Based on years of behavioral and social science research with reference to fundamental natural science principles (emergence and self-organization, conservation of energy, entropy, fundamental interactions), a basic mechanism could be formalized as operational logic: BCOL "Balanced Cooperative Operational Logic." All operations of existence, nature, and life are based on this and each represent an operational multiple thereof.

Through systematic research in the most diverse available sources, the operation of BCOL could be unambiguously demonstrated in various contexts for an observation period of several thousand years and a data base of several billion people. There is thus literally irrefutable evidence that underpins the basic mechanism of this operational logic.

Documented in: BalanceIntelligenz Framework by Lea Kelbsch

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Introduction

In this operational manual, the implementation of the Balanced Cooperative Operational Logic (BCOL) is presented in a universally applicable manner. The identification of BCOL is the result of bringing together the groundbreaking insights about nature and life that have been produced over millennia (e.g., already by Heraclitus in the 5th century BC) by the most renowned natural scientists, which have now been related to human life from a behavioral and social science perspective. The synthesis of natural science findings in logically-operational natural mechanics (LON) results in a logically-operational science as a complementary perspective to quantitatively formalized science based on falsification. This means that in LON science, the successful operation of mechanisms and processes that are logically-operationally formalized is tested. This distinguishes LON science from analytical sciences, which are generally oriented toward the falsification of quantitatively formalized logic.

The synthesis of the groundbreaking insights about nature and life produced over millennia by the most renowned natural scientists in logically-operational natural mechanics (expressed in BCOL) connects natural laws and natural forces as well as the empirical evidence of natural science findings, which have also been successfully implemented in technologies in many cases (e.g., Tesla's insights on alternating current and their implementation in the electric motor).

Based on years of behavioral and social science research with reference to fundamental natural science principles (emergence and self-organization, conservation of energy, entropy, fundamental interactions), a basic mechanism could be formalized as operational logic: "Balanced Cooperative Operational Logic." All operations of existence, nature, and life are based on this and each represent an operational multiple thereof.

To question LON or BCOL consequently represents a disregard for the aforementioned natural science findings as well as natural laws and natural forces. Anyone who disregards, ignores, or questions gravity, electromagnetism, and other natural laws or forces is acting against nature and proceeding against nature in their actions. This logically leads sooner or later to behaviors that make life impossible.

The disregard of nature can only be caused by orientation toward esotericism, nature-alien ideology, perceptual disturbance or similar, conscious exclusion of natural processes, or fraudulent intent. The exclusion, disregard, or questioning of nature, natural science findings, as well as natural laws or forces is directed against human dignity, against life, and against nature.

Context- and competence-independent operation or logic is the basic component of understanding. Every autonomous organism has this component, this operation or logic implemented in its brain. It is a foundation of thinking, interaction, and consciousness. Should the meaning of this text not immediately reveal itself to you, this is no reason to give up or express your lack of understanding or frustration. Through repeated reading of this text, your brain will reveal the meaning to you due to its implemented ability to understand. After repeated reading, you can then mentally transfer the meaning to various situations. Consider repeated reading as training for your understanding.

People to whom understanding of BCOL and LON does not immediately reveal itself must also be aware that the findings of science today are considerably more advanced than their

respective personal view or expertise. It is therefore strongly advised that these people bring their own professional and factual competence up to date before making untenable statements and harmful actions.

In order to evaluate and assess a situation that exists at a certain point in time without distortion through individual subjective opinion, nature-alien ideology, or selective perception, the KOKOLOP approach based on BCOL must be applied. Only in this way can a common understanding be created that enables a constructive, objective discussion that is not trapped in virtual ideas through subjective evaluations (such as "This action is populist" or "This statement is antisocial").

In this document, the foundations for the implementation of BCOL are presented, as well as references to corresponding materials, study results, and relevant publications by renowned scientists who have dealt with partial aspects that are integrated and synthesized in LON (see "Proof of Concept" at the end of the document).

Responsible action decisions are based on understanding, which is achieved through the approach described in this document. The implementation of BCOL is thus necessary for every person, every organization, and every government to ensure a responsible approach. Action decisions that are not based on understanding (as guaranteed by the KOKOLOP approach) represent a negligent, grossly negligent, or even intentional disregard of the logical operation that underlies nature and life.

Nature has given every human being the ability to develop logically-operational understanding (e.g., understanding the operation of coordinated grasping of objects and the operations of speaking and walking). The ability to develop understanding (i.e., to abstract and adapt processes) is the basis for autonomous organisms (including animals) to be able to interact context-independently and live in community. From this arises responsible and high-quality life.

The logically-operational understanding enables people to determine (a) how a particular context or specific situation comes about or has come about (through behavioral sequencing) and (b) what result one wants to achieve (KOKOLOP approach).

Every person can use this "natural gift" of logically-operational understanding to deal understandingly with themselves, other people, and their living space.

The Task: Enabling a High-Quality Life for People

Science is the societal sector that creates knowledge. Knowledge consists of insights into individual relationships and interactions. By connecting many pieces of knowledge over time, a comprehensive understanding emerges for possible approaches (operations) and their effects. This means that an understanding approach to enable a high-quality life is only possible by including the created knowledge. The natural sciences create knowledge about the natural areas of life (a) of a physical-chemical nature – this results in products and approaches based on physical-chemical operators, (b) of a biological-medical nature – this results in products and approaches based on biological-physiological operators, (c) of a psychological-biological-physical nature – this results in products and approaches for social coexistence and (human) life on Earth.

From the results of science emerge the understanding for life, products, necessary organizational measures, necessary quantitative-mathematical analyses (e.g., regarding economic resources in the field of economics), and corresponding (computer) technologies.

In the industrial age, science has in many areas limited itself to moment-based quantitative-mathematical analyses of the effect of individual measures, products, or approaches. This is a consequence of the exorbitant increase in the volume of knowledge, which makes it impossible for a single person to achieve a sufficiently comprehensive view of all life and processes of the living environment and nature, which automatically ends in a shortening. That this must end in an understanding dead-end follows as a logical consequence. The disregard of processes and the dynamic ordering system of nature through moment-based quantitative-mathematical analyses of measures or approaches considered in isolation automatically leads to inadequate approaches. This was system-inherent in the industrial age, as the production of products and the increase of efficiency and quantity were the focus.

It is now our responsibility to bring a rethinking according to the KOKOLOP approach into our heads and to act accordingly. Science, the education sector, industry, as well as government and public administration must again become aware that it is their task to enable people to have a high-quality life. From a self-preservation instinct alone, this is self-evident. The KOKOLOP approach forms the generally valid foundation for this.

It is important to create the necessary attention for this seemingly forgotten topic again. Furthermore, it is necessary to identify the necessary approaches for decision-making about measures that affect several aspects of our living conditions. This is described below.

Understanding Formalization, Operation & Interpretation

A transferable understanding requires a form of formalization. This can be achieved in sentences, schemas, or mathematical form. Abstraction of reality through formalization and adaptation of the formalization to reality (e.g., through action at a concrete level) is subject to the interpretation of those acting in the case of non-operational formalization. This means that in this case, abstraction and adaptation are competence- and context-dependent.

An operational formalization, on the other hand, requires no subsequent interpretation steps (from the abstract to the concrete), but directly represents the concretely required action steps in universal formulation. Any previous form of formalization of processes or approaches always contains at least one subsequent virtual interpretation step (i.e., a "translation" from the abstract to the concrete). Legal texts in particular allow room for different interpretations, which are each embedded in the corresponding context depending on subjective competence. The requirement of at least one interpretation step is an expression of the fact that previously prevailing formalizations each represent an inadmissible shortening. Furthermore, the problem of misinterpretations and subsequent wrong actions arises through the requirement of interpretation steps. The now available operational formalization of human dignity thus represents a very significant contribution of behavioral and social science research to be able to realize human well-being through concrete approaches.

Using the example of the legal abstract formalization of human dignity, the level of abstraction and the missing operational formalization can be clearly recognized.

The Federal Constitutional Court stated in its judgment of February 15, 2006 (BVerfG 1 BvR 357/05–, BVerfGE 115, 118-166): "Human life is the vital basis of human dignity as the supporting constitutional principle and supreme constitutional value. Every human being possesses this dignity as a person, regardless of their characteristics, their physical or mental condition, their achievements, and their social status. It cannot be taken from any human being. (...)

What this obligation concretely means for state action cannot be definitively determined once and for all. (...)

Absolutely prohibited is therefore any treatment of a person by public authority that fundamentally calls into question their quality as a subject, their status as a legal subject, by lacking the respect for the value that every human being deserves for their own sake, by virtue of being a person."

A somewhat more detailed excerpt from the explanations of the Federal Constitutional Court can be found in the appendix on page 23.

Since human dignity has now been unambiguously specified and operationally formalized based on extensive behavioral and social science research, and an obligation for (state) action oriented toward it exists in a concrete operational instruction for action (KOKOLOP approach), it must be established that the abstract legal perspective on the immediate protection and maintenance of human dignity is to be adjusted accordingly.

Instructions for Understanding and Responsible Action

Responsible action decisions are based on understanding, which is achieved through the approach described in this document. Action decisions that are not based on understanding are a negligent, grossly negligent, or even intentional disregard of the logical operation that underlies nature and life.

Basis of Human Understanding, Thinking, and Acting

Understanding is automatically carried out in the subconscious (brain) of every autonomous life. The consciousness has no direct influence on this operation. The consciousness can only pass instructions to the subconscious for desired conclusions and receives the results within fractions of a second as an emotional package. The feeling is the evaluation of the emotional package and reflects the current individual ability to act. (Good feeling: I am able to act; bad feeling: I am not able to act; the reason or quality of the action is only relevant to the type of feeling if a correct basic understanding of life has been previously established in the subconscious.)

Understanding is the basis of autonomous beings - nature knows only processes, i.e., regardless of what it is about, the logical operation is always the same: Time and change must always be considered. Every element that interacts with other elements must be considered as an operator. Operators perform interactions; that is their operation.

Understanding is a logically always identical process of inference to recognize the interactions of various operators with each other and their mode of operation (i.e., expected changes). The understanding is then the difference to the mode of operation compared to other operators. A situation is accordingly the observation of a still image, a moment within the operation.

Within an understanding, knowledge about systemic relationships (moment-based operators) as well as about interactions (time-based operators) is absolutely necessary to bring about a decision for action that is meaningful and adequate for life.

It is important to recognize: the consciousness can only apply either a parallel view (still image) or a process view (imagined as a film). When applying the process view, arbitrary "still images" can then be focused from the "film" and the operators identified (behavioral sequencing). Assembling new behavioral sequences and then letting them run is called imagination or creativity.

Intelligence merely means finding the most efficient path to a result within a system (whether moment- or time-based). Intelligence is only valid within a system - from the perspective of another system, the action can be perceived as stupid. Intelligence is oriented toward maximum efficiency of approach and is thus a quantitative method. An orientation toward maximum efficiency of approach alone will lead to inferior quality of actions and in the long run bring about a situation in which high-quality life is impossible due to the disregard of qualitative aspects.

Operational Manual for Implementing the Balanced Cooperative Operational Logic (BCOL)

For every approach or action, it is possible to ensure an adequate realization that does justice to the laws of nature and the natural cycle mechanism.

For every approach or action, two questions must be clarified:

1.) Does the approach or action represent a multiple of BCOL? This means that each individual operator must interact with the other operators according to BCOL, with the type of interaction characterized by a balancing mechanism (according to the conservation of energy; entropy).

2.) Is the sequence of the operation designed in such a way that a natural cycle mechanism is realized? This means that the pattern of operators must be identical at the beginning and at the end of the relevant cycle. Examples: (a) A seed falls on biomass, a tree develops and grows, the tree dies, decays and becomes biomass again. (b) Recycling of raw materials, (c) Water is taken from a lake for drinking water supply and water flows back into the lake in equal amounts from sewage treatment plants and streams/rivers.

Reference to Physics, Chemistry, and Biology

The approach considering the above points 1.) and 2.) establishes a direct reference to concepts from physics, chemistry, biology as well as economics through the consideration of logically-operational natural mechanics based on natural laws and the natural cycle mechanism, as explained below.

Interactions according to BCOL are called natural forces in physics (gravity, electromagnetism, strong and weak nuclear forces).

A multitude of operators constitutes a system. In chemistry, a combination of several operators is called an element.

Several combined systems result in materials, objects, or organisms.

The interaction of combined systems with each other is referred to as physical parameters or processes (e.g., viscosity, energy conversion, etc.) and biologically as life.

When systems are combined, interactions (balanced cooperative) occur, which are called reaction in chemistry and energy in physics.

The stability of a system, material, or organism is related to mass, the number of operators and their position in the network, as well as the frequency or energy ratios.

Reference to Economics (Economy)

Economy is nothing more than the distribution of the existing resources of the living space over life. In order to maintain the natural cycle mechanism, at the end of a cycle every life must have sufficient resources and the living space must again have the same pattern of interactions as at the beginning of the cycle.

The appearance of the living space can change significantly even if the pattern of interactions has not changed. Example: soy farming is carried out on an area, the

harvested soy is transported as food to another region; this requires a return of corresponding nutrients to the cultivation area in order to be able to maintain the natural cycle mechanism. The basic prerequisite is that the soy cultivation must not lead to the interruption of other natural cycles. This means: if the soy cultivation was made possible by clearing forest areas, corresponding reforestation must take place elsewhere, preferably as close as possible to the site of the forest clearing, in order to keep the local system as much as possible in the natural cycle mechanism.

How to arrive at decisions about adequate implementations is explained in the KOKOLOP approach (see document: The KOKOLOP Approach).

Ensuring Integrity

To consider integrity, the natural cycle mechanism also applies: Every organism must be enabled to operate in the form of a natural cycle. This means: the organism is kept in operation by exactly the same operational logic, e.g., the supply of energy must be balanced by a corresponding outflow of energy. Every body function or function of an organism can be described as an operation according to BCOL.

The Brain as a Special Body Part of Autonomous Organisms

The brain is a special body part of autonomous organisms that operates both physiologically based on chemical-biological processes and based on the physical process of perception. This means that both physiological input (e.g., oxygen) and physical input (signals from the environment) are "food" for the brain. The physical input (perception of signals) determines how the brain builds itself physically. The exact same cycle mechanism applies here. This means that every perceived input must be balanced by a balanced cooperative output. Only in this way can the brain remain healthy in its structure and thus the autonomous organism can exist capable of action. Examples: (A) Input = Perception: an object moves quickly toward me; Output = Interaction: I catch the object or dodge it. (B) Input = Perception: feeling of hunger (due to low blood sugar level); Output = Interaction: food intake.

In order to deal understandingly with input (perception), the natural cycle mechanism of the involved systems must be taken into account in order to be able to ensure a corresponding output (interaction). Example: In the case of hunger perception, excessive food intake must be excluded in order to avoid obesity and associated health problems.

It must be noted that the entire body or organism operates on the basis of physiological and physical input (e.g., muscle building). In order to maintain a healthy organism, consequently both types of input must be considered.

Damage from Disregarding BCOL & the Natural Cycle Mechanism

Considering the natural cycle mechanism is an expression of "natural human understanding" and intuitive behavior based on it. If perception or action has not been validated according to BCOL and the natural cycle mechanism, this automatically creates harmful intuitions and harmful understanding. Thus, the autonomous organism harms itself as well as other life or the living space. Diseases such as depression, cardiovascular dysfunction result from this as a consequence, as do damage to the living space.

It must be strictly observed that all approaches and actions that are not bound to nature or compatible with the natural cycle mechanism lead to damage to life. This means that lies, subjective opinions, and ideological or spiritual beliefs that are not bound to nature or compatible with the natural cycle mechanism physically damage the brain and also lead to faulty understanding and wrong actions.

Functionality

When observing the KOKOLOP approach as well as the matters set forth above regarding integrity and economics, functional technologies and approaches adapted to nature and life always emerge. Science is therefore there to provide new insights and functionalities through the expansion of knowledge about relationships and modes of operation and on the basis of the KOKOLOP approach as well as the matters set forth above regarding integrity and economics.

Organization

It is the task of an all-encompassing organization or government, as described in the KOKOLOP approach, taking into account integrity, economy, and functionality, to optimally organize life and living space and thereby enable communal and high-quality life.

Operational Process (Mechanics, Logic) of Understanding

Understanding is a process that is continuously carried out by the brain, whereby understanding continually changes emergently.

There are four basic dimensions of understanding:

- **KHEO** (Knowledge, Knowing How, Knowing How to Execute, Operation; cf. KHEO Manual)
KHEO represents the core dimensions of human understanding and interaction. KHEO describes the ability of every autonomous being to develop understanding, independent of competence and education.

- **IEFO** (Integrity, Economy, Functionality, Organization; cf. IEFO Manual)
IEFO represents the core dimensions of every human life. I.e., the overarching standard for the integrity of one's own life as well as the life of all others, for economy, i.e., the necessities for one's own life as well as for all others, for the functionality of one's own life as well as that of all others, and for the organization of one's own life as well as that of all others.

- **PPCF** (Past, Presence, Change, Future)
PPCF represents the summarized understanding of interaction, possibilities, and changes over time.

- **The actual interaction in nature and the resulting change (effect)**

Understanding action then results from four understanding components:

I.) The synchronous, moment-based understanding dimension: KHEO

1. knowledge about relationships (Knowledge; considering IEFO)
2. knowledge about interactions (Knowing How; considering IEFO)
3. knowledge of how to act (Knowing How to Execute; considering IEFO)
4. action understanding - I can act or execute that (Operation).

II.) The diachronic or serial understanding dimension: PPCF

1. knowledge about the past (Past, considering IEFO),
2. knowledge about the present (Presence, considering IEFO),
3. knowledge about changes (Change, Execution & Functionality; considering IEFO),
4. knowledge about the future (Future, considering IEFO).

From this, the operators for (a) the action (according to KHEO) as well as (b) success (according to IEFO) can be determined at any point in time.

III.) The necessity for action results from considering the question of whether something must be done to adequately realize the general understanding of life (according to IEFO). Four knowledge components must be considered:

1. knowledge about processes in the past (Past, KHEO, IEFO),
2. knowledge about the present, the current state (Presence, IEFO),
3. knowledge about possible change(s) (Change, KHEO, IEFO),
4. knowledge about the future, about the required process (Future, KHEO, IEFO).

IV.) A concrete understanding of action results from the question of how a concrete life goal (derived from the necessity for action) can be achieved. Again, four knowledge components must be considered:

1. knowledge of why something is concretely done,
2. knowledge of how the concrete life goal comes about,
3. knowledge about the actually required action,
4. knowledge about the result that needs to be verified.

Only everything considered together results in understanding interaction, action guided by understanding.

Identification of the KOKOLOP Instruction for Action

Human beings are a product of nature. Accordingly, they need a natural living space in order to be able to live out the abilities given by nature according to logically-operational natural mechanics (see LON Manual) and to be able to satisfy their natural needs.

1. Natural Definition of Dignity

The nature of human beings is to live, to use all abilities given by nature to protect one's own life as well as that of all other people and the living space. This can be expressed abstractly as follows: The characteristic feature of human existence is the continuous direct and indirect interaction with elements and organisms in their context, characterized by emergence, entropy, operability, and a natural life cycle. **Human dignity therefore consists in being able to use one's natural abilities - corresponding to human nature - and to be able to satisfy one's needs under the condition of protecting life and living space.** This means that a balanced, high-quality life, living up to human dignity, must fulfill both natural physiological and physical needs and interactions as well as physiological-psychological needs (both types of needs are equally significant). The psyche is a logical structure of experience, therefore only healthy when perceptions as well as interactions are perfectly in harmony with the operation of nature.

2. Resulting Organizational Necessity

Human dignity is protected and maintained by adequately considering abilities and needs. It is the task of an all-encompassing organization or government to organize this by proceeding according to the context- and competence-independent logically-operational (KOKOLOP) approach set out below.

3. Self-Evident Implementation, High-Quality Life

The task of individual organizations in the various areas of life (such as education, security [police, military], economy, health, science, etc.) is to satisfy people's needs with their abilities in their sector and possibilities under the condition of protecting life and living space.

The all-encompassing organization (government) has to continuously implement the entire coordination and organization of both the individual organizations and the individual people, taking into account human dignity, including new scientific findings and the needs of the organizations and people according to the KOKOLOP approach.

Success for people, organizations, and the all-encompassing organization (government) is thus defined as high-quality life in dignity, as defined above. Achieving such success is therefore the supreme commandment for every person, every organization, and every government. This represents the only way to do justice to Article 1, Paragraph 1 of the German Basic Law.

The Resulting Understanding of Problems and Emergencies

All known problems and emergencies of humans and our living space (beyond individual accidents such as sports injuries) are based in one form or another on the fact that the KOKOLOP instruction for action was disregarded in the past.

This means that problems and emergencies of humans - famines, refugee crises, (civil) wars, environmental destruction, the development of mental illnesses such as depression into widespread diseases, the dramatic spread of loneliness, the increasingly extreme forms of social inequality, and storm disasters, etc. - are not unavoidable strokes of fate or to be interpreted in a similar manner. In each case, it is a phenomenon that can be adequately avoided by following the KOKOLOP instruction for action.

As a consequence:

1. The operation according to the KOKOLOP instruction for action replaces any "social thinking" (in the sense of social welfare) because it is inherently social (protection of life and living space).
2. The operation according to the KOKOLOP instruction for action is the only one that allows complete individuality without mutual harm occurring.
3. The operation according to the KOKOLOP instruction for action unites assets and responsibility, because assets increase the possibilities (and thus the abilities) that must be used to protect life and living space and to satisfy needs.

The Operational Implementation and Binding Instruction for Future Action Decisions

This instruction for action is context-independent because it can be applied to any problem or approach, regardless of whether it concerns bridge construction, animal husbandry as a farmer, or dealing with a viral epidemic. It is competence-independent because every person - even without any concrete prior knowledge - is enabled to achieve a successful action result.

The Operational Implementation:

Context- and Competence-Independent Logically-Operational Instruction for Action

- (1) Identify operators (Example: A farmer must identify numerous operators that influence whether the animals in their care will develop healthily: the feed, the temperature in the barn, the lighting conditions, the social behavior in "captivity", the possible spread of pathogens, etc.)
- (2) Assemble an expert commission or determine relevant sources to capture the current state of knowledge.
- (3) Synthesize the current state of knowledge from all relevant perspectives (e.g., by obtaining "expert opinions" or statements from relevant experts).
- (4) Verify compliance with Integrity, Economy, Functionality, and Organization (IEFO; cf. IEFO Manual).
- (5) Verify compliance with the logic for developing an understanding approach to a problem or procedure (Knowledge, Knowing How, Knowing How to Execute, Operation, KHEO; cf. KHEO Manual).
- (6) Ensure verification of min-max values for relevant operators through behavioral sequencing for various approaches or context conditions (Example: How much fluid does a person need per day? Minimum value: minimal physical movement, optimal body-appropriate ambient temperature, etc.; Maximum value: maximum physical movement, maximum occurring ambient temperature, etc.).
- (7) Ensure consideration of self-organization processes or emergence, meaning accounting for the fact that operators as well as their effect can change over time. Example: Organisms change themselves and their effect through interaction with their environment (virus mutations, employees change their behaviors after a change to a new department, animals change their behavior in captivity compared to life in the wild, etc.)
- (8) Consider permanently changing contexts, i.e., the operational quality of existence and life (according to Heraclitus: "Everything flows."; The world order results from a process of permanent becoming and change). Example: The length and volume of a steel beam change permanently depending on temperature, load, etc. This dynamic quality must be considered, e.g., when building a bridge).
- (9) Test the determined approach with regard to compliance with the principle of natural cycles: The pattern of the network of operators must be structurally identical again after one pass (life cycle). The duration of a pass (life cycle) can vary greatly. Example: A tree develops from a seed, grows over many years, then dies and decays into biomass.

On Dealing with Discipline-Specific Scientific Assessments and Their Significance

Science is divided into numerous different disciplines. Accordingly, a scientist typically only has expertise from their discipline or even only a sub-discipline. Several hundred sub-disciplines now exist.

Interdisciplinary decision-making in organizations must be based on the KOKOLOP approach. A meaningful scientific assessment of a more complex question [the above points (2) and (3) in the KOKOLOP procedure] - such as the assessment of the consequences of a measure that affects several aspects of our living conditions - requires:

- a) expertise from a broad spectrum of scientific disciplines. Only in this way can a holistic consideration of the question be approximately achieved;
- b) expertise that represents possibly existing different theoretical and/or methodological directions;
- c) expertise to make an appropriate qualitative weighting regarding the individual discipline-specific assessments.

A meaningful scientific assessment of a more complex question can therefore only be achieved when a broad spectrum of representative expert opinions is available and an adequate weighting of these has been made. Conversely, this means that a single unweighted scientific assessment or a single result (referred to as a "fact") in the case of a more complex question is only to be evaluated as an expression of opinion.

Only in situations that allow no time delay in implementing a measure is an exception to the above procedure permissible.

The above procedure is based on findings that count as basic knowledge about decision-making processes in the social and behavioral sciences under the terms "wisdom of the crowds" and "groupthink."

This statement refers to the procedure for decisions about measures that affect several aspects of our living conditions. Founded contributions from individual scientists should not be called into question by this. Every individual founded and validated scientific contribution to debates is meaningful. However, for decision-making regarding more complex questions, it is necessary to implement a procedure as presented above.

The KOKOLOP Approach is Exclusively Results-Oriented and "Blocking Free"

Life always needs a result (goal) for which it lives in order to be able to act successfully. The basic logic is that every interaction is aimed at transforming the existing context or situation into a new context/new situation that protects and preserves one's own life as well as the life of others and the living space, in accordance with the natural cycle mechanism.

The universal result (goal) that applies independently of current conditions must be to enable and protect life and living space permanently. This must be ensured independently of subjective opinions, nature-alien ideology, or virtual ideas. The KOKOLOP approach fulfills this independence and the claim to protect and preserve life and the dignity of life through understanding interaction.

The continuous identification of new desired results (goals) is a prerequisite for successful, high-quality life. This corresponds to the emergence of nature.

In order to implement an approach that protects life and enables a general understanding of implementation, the KOKOLOP approach must be applied. By executing this approach, an identification of the relevant operators, a prediction of the effect (impact), and thus the possibility to ensure successful life independently of nature-alien, life-damaging ideas or ideologies automatically results.

With the KOKOLOP approach, human dignity is realized, the consideration of physiological and psychological needs is ensured, and thus the lasting well-being of people is guaranteed.

Should people be misled by misinterpretations, misperceptions, or nature-alien beliefs, this will be successively corrected with consistent implementation of the KOKOLOP approach. This is the consequence of the fact that the brain restructures itself physically due to corresponding perception and will then build up natural, logically-operationally adapted structures. This makes clear that autonomous organisms are actually physically impaired by the perception of nature-alien ideologies and opinions, half-truths, selective information (lack of transparency), and lies.

The KOKOLOP approach is exclusively results-oriented; it knows no insurmountable problems or hurdles, since the operators and their constellation or interactions are made visible and modified if necessary based on results. This means that if an interaction step achieves a result that contradicts the desired result, an examination of the operators and their constellation or interactions takes place as well as the determination of a new, modified operator constellation, the effect of which can then be determined in the subsequent interaction step. Through scientific observation, the significance of the modified operator constellation can be described and explained, and attention to it can be ensured for the future. Thus, ultimately every interaction step becomes a constructive step toward the agreed/desired result. The approach can be described as "blocking free." Blame in the case of failure of an interaction step thus becomes meaningless (unless the failure was intentionally caused) and its destructive, anti-operational character becomes recognizable. Because with the KOKOLOP approach, a constructive, logically-operational approach is available.

The KOKOLOP approach compensates for human weaknesses (superstition, misinterpretations, harmful nature-alien ideologies, selective perception) and eliminates them completely in the long run. This is because it is implemented independently of subjective opinions, nature-alien ideology

or virtual ideas and exclusively an operational understanding comes into play.

The prerequisites for participation in the KOKOLOP approach are (1) being able to read and write (if no automatic procedures are available) and (2) being able to carry out instructions for action.

The KOKOLOP approach is a neutral procedure that can be applied to any context in any situation (for simple, reliable implementation, process forms or simple software are suitable). The relevant context is automatically processed by the KOKOLOP approach; at the end are the action possibilities. For this reason, the KOKOLOP approach is a context- and competence-independent procedure. In accordance with sections (7) on emergence and (8) on operational quality in the above instruction for action, it is to be assumed that the KOKOLOP approach also does not have a static, unchangeable quality, but that modifications may become necessary over time.

The implementation in your organization can be individually customized, whereby a computer-assisted procedure can be used. The fundamentals for this have already been technologically developed and are applicable. Further information can be provided by Prof. Johannes Keller.

Note: The manuals for LON, IEFO, and KHEO are made available for download on the website of the BalanceIntelligenz Framework by Lea Kelbsch.

Proof of Concept

(Scientific Empirical Evidence)

The contents presented in this document are based on numerous empirical studies, corresponding publications, patent specifications for technologies for implementing BCOL in procedures, as well as several dissertations on partial aspects, and equally on groundbreaking findings from research on social cognition (e.g., Kahneman, 2011) or on the concept of emergence (Durkheim, 1984; Goodwin, 1994; Penrose, 2000; Ryan, 2011), on the role of hygiene (Simmelweis, 2015), and on group processes (Janis, 1972; Surowiecki, 2005). Groundbreaking findings from physics (Einstein, 1917/2009; Newton, 1872/1992; Penrose, 2000) are also integrated, as are fundamentals of philosophy of science (Popper, 2005) and fundamental findings of modern biology (Carey, 2012; Goodwin, 1994; Ryan, 2011).

Furthermore, the results of extensive systematic research in diverse sources are available, which are presented in the referenced manuals (BalanceIntelligenz Framework by Lea Kelbsch).

Dissertations

Blomann, F. (2013). Boundary conditions and consequences of flow experience: An experimental analysis. Inaugural dissertation for the attainment of the academic degree of Doctor of Social Sciences. University of Mannheim.

Diefenbacher, S. (2017). Measuring, explaining, and improving hospital hand hygiene: Contributions from a behavioral scientific perspective. Inaugural dissertation for the attainment of the academic degree of Doctor of Philosophy. University of Ulm.

Merkle, J. (2015). Flow in experiential therapy for mentally ill children and adolescents. Inaugural dissertation for the attainment of the academic degree of Doctor of Medicine. University of Ulm.

Nockur, L. (2021). Structural interventions to foster sustainable behavior: Potentials and pitfalls from a social dilemma perspective. Inaugural dissertation for the attainment of the academic degree of Doctor of Philosophy. University of Ulm.

Pfattheicher, S. (2014). Understanding sanctions in social dilemmas: A biopsychological perspective on costly punishment in public goods situations. Inaugural dissertation for the attainment of the academic degree of Doctor of Philosophy. University of Ulm.

Patent Specifications of the Research Cooperation Partner

(Machine implementation of human understanding, use of BCOL as a procedure):

Kelbsch, L. (2012). Loudspeaker. Application: 21.12.2012. Patent specification DE102012025402A1.

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Kelbsch, L. (2020). Method and device for storing data and their relationships. Application: 20.09.2019. Patent specification DE2019/100829, international publication number WO 2020/094175 A1.

Publications

Selection of central publications by Prof. Johannes Keller & colleagues on intuition & intuitive behavior, automatic-intuitive behavior (flow; habit), intuitive control of action sequences in everyday work life (application field: hand hygiene of healthcare personnel), as well as relevant personality factors.

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Central Publications by Other Scientists

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Abstract Legal Formalization of Human Dignity

BVerfG, Judgment of February 15, 2006 – 1 BvR 357/05 –, BVerfGE 115, 118-166

117 aa) The fundamental right to life guaranteed by Article 2, Paragraph 2, Sentence 1 of the German Basic Law is subject to the reservation of law pursuant to Article 2, Paragraph 2, Sentence 3 of the German Basic Law (see also above under C I). However, the restricting law must itself be seen in light of this fundamental right and the closely linked human dignity guarantee of Article 1, Paragraph 1 of the German Basic Law. Human life is the vital basis of human dignity as the supporting constitutional principle and supreme constitutional value (cf. BVerfGE 39, 1 <42>; 72, 105 <115>; 109, 279 <311>). Every human being possesses this dignity as a person, regardless of their characteristics, their physical or mental condition, their achievements, and their social status (cf. BVerfGE 87, 209 <228>; 96, 375 <399>). It cannot be taken from any human being. However, the claim to respect that arises from it is violable (cf. BVerfGE 87, 209 <228>). This applies regardless of the foreseeable duration of individual human life (cf. BVerfGE 30, 173 <194> on the human claim to respect for their dignity even after death).

118 With regard to this relationship between the right to life and human dignity, the state is on the one hand prohibited from intervening in the fundamental right to life through its own measures in violation of the prohibition against disregarding human dignity. On the other hand, it is also obligated to protect every human life. This duty of protection requires the state and its organs to stand protectively and supportively before the life of every individual; this means above all to preserve it from unlawful attacks and interventions by third parties (cf. BVerfGE 39, 1 <42>; 46, 160 <164>; 56, 54 <73>). This duty of protection also has its basis in Article 1, Paragraph 1, Sentence 2 of the German Basic Law, which expressly obliges the state to respect and protect human dignity (cf. BVerfGE 46, 160 <164>; 49, 89 <142>; 88, 203 <251>).

119 What this obligation concretely means for state action cannot be definitively determined once and for all (cf. BVerfGE 45, 187 <229>; 96, 375 <399 f.>). Article 1, Paragraph 1 of the German Basic Law protects the individual person not only from humiliation, branding, persecution, ostracism, and similar actions by third parties or by the state itself (cf. BVerfGE 1, 97 <104>; 107, 275 <284>; 109, 279 <312>). Based on the Basic Law's conception that it is part of human nature to determine oneself in freedom and to develop freely, and that the individual can demand to be recognized in the community fundamentally as an equal member with intrinsic value (cf. BVerfGE 45, 187 <227 f.>), the obligation to respect and protect human dignity rather generally excludes making a person a mere object of the state (cf. BVerfGE 27, 1 <6>; 45, 187 <228>; 96, 375 <399>). Absolutely prohibited is therefore any treatment of a person by public authority that fundamentally calls into question their quality as a subject, their status as a legal subject (cf. BVerfGE 30, 1 <26>; 87, 209 <228>; 96, 375 <399>), by lacking the respect for the value that every human being deserves for their own sake, by virtue of being a person (cf. BVerfGE 30, 1 <26>; 109, 279 <312 f.>). When such treatment is present must be determined in each individual case with regard to the specific situation in which a conflict may arise (cf. BVerfGE 30, 1 <25>; 109, 279 <311>).