Knowledge is Power – Sir Francis Bacon
Go Beyond Your Knowledge Horizon

Global Knowledge Platform

Knowledge Transfer for the Cognitive/AI Age

SUMMARY

What is the Global Knowledge Platform?

The **Global Knowledge Platform (GKP)** is an online digital knowledge transfer platform aimed at improving both the quality and efficiency of knowledge transfer and learning. It extends the knowledge transfer space to an unlimited size of human-generated knowledge accumulated on the platform.

The GKP project is a combined social and business project. Its goal is the development and further exploitation of all versions of the platform created for official education (directed learning), organizational learning, and individual self-directed learning.

GKP is based on innovative concepts and intelligent knowledge technology. It improves the quality and efficiency of knowledge transfer and acquisition for all levels and kinds of learners around the world. GKP is a “one-stop shop” linking both knowledge contributors and knowledge seekers (learners).

GKP will help prepare all knowledge seekers and workers for the fast-coming Cognitive Age, where human and artificial intelligence will constantly collaborate. It is an AI future-ready global digital knowledge transfer environment.

Goals

GKP has five major goals:

1. To accumulate all human-created knowledge in every general and specific knowledge domain, field, area, subject, topic, etc.
2. To eliminate the GIGO (garbage in, garbage out) effect in information technology (IT) systems by offering high-quality digital content representing knowledge delivered by proven and trusted subject matter experts (SMEs) and professional instructional design teams.
3. To offer all platform users a complete digitally transformed knowledge transfer process monitored and supported in real time by artificial intelligence technology (personal AI assistants and tutors).
4. To maximize the quality and efficiency of personal knowledge acquisition just-in-time on demand.
5. To prepare and support humanity for the coming Cognitive Age, where the jobs will be highly knowledge-intensive and will require frequent updates and upgrades in constant collaboration with AI technology.

Innovations

The platform structure and functionality are based on innovative concepts, approaches, and technologies. The digital information representing knowledge accumulated on the platform will be highly structured as a multidimensional knowledge hyperspace. AI-based assistants will help proven subject matter experts (SMEs) dynamically build the knowledge hyperspace. They will guide all knowledge seekers through this space while acquiring working knowledge most

efficiently. The GKP's innovations help design and conduct the complete (end-to-end) knowledge transfer process by applying the systems approach.

The structure, functionality, and all the innovations integrated into the platform are the know-how of the author of the GKP project–Tinko Stoyanov (his contact information is below).

The **GKP's concepts** may sound futuristic today, but the project author thinks now is the right time for this project to come to life and start serving humanity. The social demand for just-in-time working knowledge updates and upgrades is already huge. It will get more pressing with the advance of AI technology in the fast-coming Cognitive Age, when humans and AI will collaborate every day.

GKP–KEY CONCEPTS

Knowledge Transfer in the Cognitive Age

With the advancement of intelligent information technologies, today we usually refer to as artificial intelligence (AI), came the next level of the Industrial Revolution—Industry 4.0—based on the rapid technological advancement in the 21st century. Technologies like AI and intelligent robotics will foster the further advancement of the knowledge economy and probably lead to a so-called "AI Age." Most probably, the dawn of this new age of the Industrial Revolution will be renamed to "Cognitive Age" based on the collaboration of human and artificial intelligence. The combined knowledge and cognitive activities of humans and AI will be the major "force" advancing the evolution of human society to the next level, transforming it into a "blended intelligence" society–Society 5.0, also known

as the "Super Smart Society," where science and technology will play the key roles with their “common denominator” **knowledge**.

The knowledge economy will require up-to-date levels of knowledge and more frequent updates, upgrades, and often new knowledge acquisition for everyone who takes part in it to be relevant to the advancement of “knowledge-based” jobs. Everything must be made by do-it-yourself (DIY) on demand (just in time) to keep up with the fast-emerging new technologies, as the majority of the jobs in the Cognitive Age will be highly knowledge-intensive.

In such a knowledge-intensive economic and social environment, knowledge transfer and acquisition will require new concepts, approaches, methodologies, and technologies.

Without any doubt, the future of education and work in the Cognitive Age will be “artificially intelligent.” Humanity needs to prepare in time for this future.

Knowledge Transfer: The Need for Change

Today's knowledge transfer practices, which we call “teaching and instruction”, are based on practices that originate from the ancient and medieval periods in the history of mankind. They do not allow modern information technologies to realize their full potential and capabilities to increase the quality and efficiency of knowledge transfer. The result of this discrepancy leads to a lag in the relevance of the acquired knowledge compared to the rapidly changing requirements for it, which are a result of the technological development of human society.

Ever-accelerating technology in all industrial and all other economic sectors requires more frequent knowledge updates and upgrades. The workforce has to

stay relevant to the job requirements. The globalization of technology and businesses requires the unification of knowledge and competency around the world. This approach will help build faster global professional networks.

These pressing needs require new approaches to knowledge transfer that deliver **better efficiency and just-in-time new knowledge on demand**. As knowledge building is based on information, new applications of advanced information technology, such as AI-powered knowledge technologies, must be involved to improve the quality and efficiency of knowledge transfer.

So, what is the solution to the problem with the outdated knowledge? The answer is simple. It must include new concepts, approaches, methodologies, and applications of innovative information technologies to today's and future knowledge transfer.

Global Knowledge Platform: The Purpose

The purpose of the Global Knowledge Platform is to organize knowledge management, sharing, and transfer into a successful and efficient knowledge acquisition process (workflow) for all registered knowledge seekers (learners). GKP will be transformative to the entire learning process and experience, starting from selecting the right knowledge source to the self-evaluation of acquired knowledge.

GKP is to unify learning for all learners around the world by offering them knowledge sources delivered and designed by the best of the best subject matter experts (authors and instructional designers) to choose from, and supported by personal (A)intelligent assistants/tutors in real-time, 24/7.

These advantages of GKP are based on innovative concepts, approaches, and knowledge transfer technology know-how of the GKP project author.

The Global Knowledge Platform: What is it?

The Global Knowledge Transfer Platform is an artificial intelligence-based, automated digital information system that will directly connect knowledge seekers (learners of all levels and kinds) with the information/content representing knowledge submitted by knowledge contributors (authors, publishers, etc., copyright owners).

Content will be fully digitized and in various hypermultimedia file formats. It will be "active" (monitoring and responsive) to user interaction, thanks to integrated knowledge transfer metrics and analytics (it is the know-how of the author).

GKP is a knowledge "pull" system, not a "push" one like the official education system. The industry proved that the pull production systems work much more efficiently than the push ones.

Using GKP, the learners (knowledge seekers) will start pulling content (representing knowledge) on demand, just-in-time, at their own space and pace, in a do-it-yourself (DIY) personalized mode supported by (A)Intelligent assistants in 24/7 real time.

GKP is both a social and a business project. As a social project, GKP will be transformative to the education and thus to society. It will advance the liberalization and democratization of online knowledge transfer at all levels,

offering equal access to unified knowledge to all learners around the world who have access to the Internet.

As a business project, GKP will connect all groups of platform users who are interested in digital knowledge transfer—knowledge contributors, knowledge transfer assistants/associates of various kinds, individual knowledge seekers, organizations, and the workforce of any kind. It will offer lifelong learners up-to-date knowledge in any knowledge domain delivered by the best-of-the-best subject matter experts (SMEs), simultaneously guaranteeing the quality and efficiency of the knowledge transfer process.

Global Knowledge Platform: The Target Function

Efficiency is the target function (goal) of any automated system—getting the best results (quality) with the least investments (time, effort, and finances).

The target function of GKP is to help learners build the required knowledge most efficiently. Along with this, GKP will help improve knowledge created by "pure" machine learning (i.e., AI "knowledge") by combining it with the human-created knowledge accumulated on the platform.

GKP will offer the online digital environment (structure and functionality) for completing those functions.

Global Knowledge Platform: The Goals

The first major goal of the GKP project is to build a **unified global knowledge hyperspace** (online digital content repository), accumulating the collective knowledge of humanity. This knowledge hyperspace will serve all

learners (knowledge seekers) around the world to get on-demand the exact knowledge they need in their time of need (just in time).

The second major goal of the platform is to offer all learners a highly efficient knowledge transfer (KT) process. It will help them acquire the required level and quality of knowledge. All the process of efficient knowledge transfer will be monitored, controlled, and guided 24/7 in real time by intelligent personal knowledge assistants (virtual tutors) in any subject knowledge domain, field, area, subject, and topic.

To reach these goals, the platform structure and functionality will be based on innovative concepts, approaches, and intelligent knowledge transfer technologies (AI KTech).

How Will GKP Reach Its Goals?

To reach its goals, the **GKP project** aims at building an AI technology-powered **knowledge hyperspace** that dynamically accumulates and transfers knowledge delivered by the best-of-the-best subject knowledge (proven) experts around the globe in any knowledge domain and area. GKP aims to make this task possible, using AI technologies to serve as personal assistants and mentors to humans, both knowledge contributors and seekers, while monitoring, controlling, and completing the knowledge transfer process most efficiently in real time, initiated on demand by the users.

GKP will involve the **digital transformation of knowledge transfer based on Lean Six Sigma approaches** that guarantee the quality of the outcomes and efficiency of the process.

GKP: New Concepts and Innovations in Knowledge Transfer

To reach all the user requirements and goals in a dynamic knowledge-based social environment, knowledge transfer needs to be built on new concepts, approaches, and technologies.

The major goal of the proposed intelligent digital Knowledge Transfer Platform project is to meet all the requirements of a society where new knowledge is constantly in high demand and collaboration with AI is an everyday practice. The major advantages of GKP are quality and efficiency in transferring and building knowledge on demand (initiated just in time by the user demand), guided, personalized, and supported by (artificial) intelligent personal assistants. These advantages are based on innovative concepts and approaches.

The main innovative approaches and concepts of GKP are:

- Content (information presenting and conveying knowledge) is structured in brain-like neural networks, endlessly constructing a multidimensional, dynamically linked knowledge hyperspace.

The GKP's knowledge hyperspace will be built as artificial neural networks forming brain-like “knowledge connectomes,” thus hyperlinking all created “active knowledge objects” (AKOs) published on the platform by their authors. All knowledge domains, fields, areas, etc., will be hyperlinked, thus forming a “multidimensional knowledge hyperspace.” All learners (knowledge seekers) will be able to “travel” at faster-than-light (FTL) speed throughout that hyperspace, supported 24/7 in real time by their own artificial intelligence (AI)-based “co-pilots” – intelligent personal knowledge transfer assistants (virtual tutors).

- Knowledge on the platform is structured as hyperlinked networks of unified "active" micro knowledge objects dynamically forming adaptable knowledge structures (maps) for presenting knowledge and, if needed, eliminating in real time any detected knowledge gaps during the knowledge transfer and acquisition processes. The design process will also be supported by **AI-powered assistants**.

- Information/content flow is integrated with the **process control/management** components (learning metrics and analytics). Thus, knowledge structure and transfer process integrate and combine simultaneously both major components—knowledge and transfer control metrics. It is specially designed to form a **Lean** (efficient, no-waste) **Six Sigma** (quality control) process.

- Intelligent personal assistants (AI agents–bots) monitor the users' progress in real time and support each user by personalizing (adapting) content to their initial background, knowledge acquisition needs, and learning style. The AI assistants support and guide all kinds of platform users–content contributors (authors), KT instructional designers, DIY KT learners, and online (human) tutors to complete their tasks in real time, 24/7.

The new approaches and concepts, listed above, are the **know-how of the project author (Tinko Stoyanov).**

Here is the GKP's functionality summarized:

- GKP automates the complete knowledge transfer (KT) process (which takes place outside the human brain)
- The KT process and its outcomes are monitored, controlled, and personalized in real time by artificial intelligence (AI) agents (assistants)
- Knowledge to be transferred is presented by digital information

- Information is structured as interactive multimedia content representing and conveying knowledge

- Content is split into small portions—knowledge objects (KOs)

- Knowledge acquisition metrics and analytics are being integrated into KOs, thus forming active knowledge objects (AKOs)

- Combined AKOs form unified KT modules

- The KT modules represent specific topics

- Combined modules construct completed courses

- The courses represent knowledge subjects (in any subject area, field, and domain)

- The KT modules and courses are hyperlinked and dynamic in structure and content-adaptable to the learner's needs.

Such a structure and functionality of GKP make KT highly personalized to meet the learners' background knowledge, learning goals, and style. It keeps the KT process and its outcomes at the highest level of efficiency and quality.

GKP will pool humanity's knowledge to be transferred to the next generations living and working in the Cognitive Age.

GKP: ADVANTAGES, BENEFITS, and IMPACTS

Advantages: Advancing Education and Knowledge for all Learners

The major advantages of GKP are quality and efficiency in transferring and building knowledge on demand (initiated just-in-time by the user demand), guided, personalized, and supported by (artificial) intelligent personal assistants in

real time. These advantages are based on the innovative concepts and approaches listed above.

The major advantages of GKP for transferring and building knowledge compared to traditional learning management systems are as follows:

- **Building knowledge and understanding**—not just memorizing facts
- **Integrated learning metrics and analytics**—knowledge gaps are constantly checked and filled in during the KT process
- **Real personalization**—real-time monitoring of the KT process and its outcomes, and guiding the user by personal (A)Intelligent assistants (agents)
- **Quality**—proven knowledge of the input and output of the KT process
- **Efficiency**—the KT process is completed with the least invested resources (time, effort, and finances).

GKP: Impact, Application Areas, and Benefits

The GKP project is targeted at all education and business-active Internet users. According to Statista (https://www.statista.com), as of October 2024, there were 5.52 billion Internet users worldwide, which amounted to 67.5 percent of the global population. And this number is constantly growing (e.g., with 97 million new users coming online for the first time during 2023).

GKP will be transformative to education, business, society, and AI technology. Its products and services will have a profound impact on individuals and organizations alike.

Application areas of GKP will be all human knowledge transfer and acquisition activities:

- Personal self-learning and development – do-it-yourself (DIY) knowledge transfer
- Public learning in official educational structures
- Corporate and organizational learning, training, knowledge sharing, and management
- Intelligent knowledge technology – developing specific subject knowledge modules and human-centered interfaces for AI systems based on proven knowledge created by worldwide known subject matter experts (SMEs).

The platform will be **transformative to**:

- **Education** at all levels by fostering online learning supported by advanced knowledge technology
- **Corporate training and continuing (lifelong) learning** of knowledge workers in cooperation with and supported by AI. It will be highly effective in all economic sectors requiring the highest level of staff proficiency.
- **Personal competence continuing development** via do-it-yourself (DIY) knowledge transfer on demand (just in time when needed)
- **AI technology** by "teaching" AI-based systems using domain-specific knowledge modules created by acknowledged human experts.

The major applications of GKP will benefit:

- Individuals—All individuals around the world who have access to the Internet will be able to start personalized do-it-yourself (DIY) knowledge transfer on demand in any selected knowledge area. Using GKP, they will do this most efficiently by spending fewer resources (time, effort, and finances) while getting the highest quality knowledge delivered by world-renowned and proven subject matter experts. Using GKP, individuals who are looking for jobs can update their

knowledge and prepare themselves better for the specific requirements of a job position. By using GKP, they can also learn or improve their skills in how to collaborate with AI tools, such as AI agents, systems, and technologies.

The major benefits for individuals include:

- 24/7 access to trusted knowledge delivered by proven subject matter experts (SMEs) from around the world
- Just-in-time on-demand access to needed (working) knowledge
- Efficient knowledge transfer supported in real time by AI-based assistants/tutors
- Effective self-guided learning methodology for building knowledge and understanding
- Access to accredited and licensed knowledge modules and complete courses delivered by learning and training organizations
- Obtaining official certificates for completed modules and courses
- On-demand guidance by online tutors registered on the platform.

- Education—All students/learners (from K-12 to university levels) will benefit from using the educational version of GKP in class or online (after classes) activities. They will get access to an ever-growing number of knowledge modules created by worldwide-known subject matter experts (SMEs) presenting up-to-date, proven knowledge. They will get 24/7 support from (A)Intelligent assistants (agents), personalizing content in real-time based on learners' backgrounds and learning styles by constantly monitoring their progress and outcomes, by adapting their learning path on selected knowledge maps (modules). Constantly communicating with their personal AI assistants while learning, the students will

gain practical skills in how to collaborate with AI systems. Such practical experience can help them apply their AI competencies in real settings.

The major benefits of education include:

- Improved “learning how to learn” students' skills
- Improved personalization matching students' preferred pace, space, and learning styles
- “Pull” (not the traditional “push”) self-guided learning process on demand
- Real-time control, assistance, and guidance of knowledge acquisition outcomes
- Getting constructive feedback in real time
- Filling in any detected knowledge gaps in real time
- Fostering digital and AI literacy of students
- Equipping future-ready generations
- Improving educators' and parents' control over students' progress.

- Business—GKP will help companies and organizations of any kind accelerate intelligent automation based on accumulated human knowledge on the platform and in collaboration with integrated intelligent technology (AI). They can automate all knowledge transfer processes related to corporate learning, training, management, and sharing. Companies and organizations can improve employee performance reviews by checking if they contribute to the company's knowledge pool by sharing their how-to knowledge.

The major benefits for business include:

- Improving organizational knowledge sharing and management
- More effective workplace learning
- Better human-AI collaboration

- Just-in-time knowledge and skills updates and upgrades
- Higher workforce motivation in knowledge sharing
- Building an organizational knowledge space.

- Society—By its functionality, GKP is a socio-technological digital knowledge-accumulating and efficient transfer system. It will democratize access to quality knowledge on demand to every knowledge seeker around the world. GKP will deliver on-demand knowledge most efficiently worldwide to all members of society who need it. The platform will help people develop their cognitive abilities, thus making them competitive with machine intelligence in the knowledge-based economy. GKP will assist billions of people worldwide to gain new knowledge on demand and support their skill shifts just in time. GKP will pool humanity's knowledge to be transferred to the next generations living in the Cognitive Age.

The major benefits for society include:

- Creating a unified structure of accumulated knowledge of humanity
- Democratizing access to knowledge globally
- Creating cognitive future-ready generations
- Building a “blended” (human-AI) intelligence society.

- Technology (AI systems and robotics)—GKP will also influence AI technology, helping it reach its potential by adding human-created knowledge modules, thus complementing and “augmenting” AI knowledge created by machine learning algorithms. GKP will advance developments in AI technology by “teaching” and “implanting” ready-made domain-specific knowledge modules into AI systems and

intelligent robots. Such knowledge modules, created by well-known human experts and published on GKP, will help AI developers:

- Create human-centric AI systems and robots based on human expert-created, proven domain-specific knowledge

- Create new human-AI/robot interfaces (based on human knowledge and languages) for better communication and understanding between both sides

- Help AI developers avoid the **GIGO (garbage in, garbage out) principle** common in computer systems working on not-trusted/verified information.

Information technologies have already proved they can enhance education. The next level of such advanced knowledge technologies, including AI, is an integral part of GKP functionality. That makes GKP the future of education and all other forms of knowledge transfer on demand initiated by the learners, such as do-it-yourself (DIY) lifelong learning and knowledge transfer just-in-time of need, actively supported in real-time by intelligent technology (AI). The platform will guarantee the quality and efficiency of the knowledge transfer process.

SUMMARISING

GKP is a combined social-business knowledge hyperspace built on human knowledge contributed by proven subject matter experts (SMEs) from around the world. It allows all knowledge-seeking individuals to “hyper-travel” the GKP information space representing knowledge. If such information still does not exist, the relevant knowledge contributors will be notified about the user's need/request so they can fill in the existing knowledge gap by creating the missing piece and contributing it to GKP.

The user's "navigation" in the GKP knowledge hyperspace (i.e., searching for information and do-it-yourself digital knowledge transfer) will be guided and supported in real time by personal (artificially) intelligent assistants (AI-powered assistants—virtual tutors). In the case of need, licensed online tutors on demand can support the learners in the knowledge acquisition process.

Thus, GKP will build the foundation of a "Knowledge Universe," a "parallel" one to the natural universe. All users visiting it will be able to travel "faster than light" (FTL) in this parallel universe, following their need for knowledge.

The Knowledge Universe will constantly expand as the natural one does, but the driving "force" of this expansion will be the knowledge contributed by the subject matter experts who will be the Knowledge Universe's human creators. The curiosity of the learners and their constant need for new knowledge will be the creative "energy" demanding the constant expansion of the Knowledge Universe for the benefit of humanity.

The GKP Project

The initial research phase of the GKP project is completed. The main goals and concepts are defined. Know-how is created.

Tinko Stoyanov, the author of this project, is looking for partners for the development and implementation of the project in collaboration. After the completion of the project, the **GKP** will start working as an **Intelligent Digital Knowledge Transfer Platform** for the benefit of all the platform service contributors and users (knowledge seekers).

If you are interested in this project, please contact the author. Let's make it happen together. Humankind must prepare for the **"cognitive"/AI future** in time.

More information on the project concepts, research, and approaches to this topic can be obtained from the author's publications presented in his blog (the link is below).

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