

We live in a world that keeps changing at an unprecedented pace. The speed of transformations, new trends and developments relentlessly change the context surrounding us.

Finding your way around can prove to be not that simple, especially when your knowledge becomes obsolete so rapidly, being specialised in a single field or sector is no longer sufficient, nor is trying to learn and apply standard solutions.

Learning to focus your creativity on the relevant objectives and choosing continuous innovation are crucial skills to overcome the challenges of our times.

www.tetris-project.org

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Education and Culture DG

Lifelong Learning Programme

TRIZ: SYSTEMATIZING INNOVATION AND CREATIVITY'

TRIZ, a Russian acronym standing for Theory of Inventive Problem Solving, is at the same time a methodology and a range of instruments developed in Russia by G.Altshuller (1926-1998) from 1946, with the aim of capturing the creative process in technical and technological fields, codifying it, and making repeatable and implementable.

In general terms, the capability to invent is considered a gift of nature and not an activity which can be carried out systematically. Altshuller, instead, as Galileo did with the scientific method, by studying the process leading to the development of patented ideas, deduced the laws governing the evolution of

technical systems. After these studies, a proper theory of invention was developed, allowing the systematic analysis, modelling and solution of technical problems. The theory provides an entire range of tools for each of the stages, leading to the final solution.

TRIZ is undoubtedly the methodology which has so far proved to be the most efficient to solve problems resorting to creativity and which can be learnt and used with or without an innate individual creativity.

DISSEMINATION OF TRIZ

TRIZ is currently used worldwide by major enterprises as well as by SMEs. Among the most famous companies, it is worth mentioning: 3M, BAE Systems, Boeing Corporation, Daimler Chrysler, Dow Chemical, Ford, GM, HP,

Hitachi, IBM, Intel, Johnson & Johnson, LG Electronics, Motorola, Kodak, NASA, Nestlé, OTIS Elevator, Panasonic, Procter & Gamble, Samsung, Shell, Siemens, Toyota, UNISYS, Xerox, Whirlpool, Saipem e BTicino and many others.

TETRIS: AN INNOVATIVE APPROACH TO THE TEACHING OF TRIZ

The TeTRIS - Teaching Triz at School Project is funded by the LLL (Life Long Learning) Programme, with the intent to identify the training needs of the education system and of trainers, to improve individual problem - solving capabilities and to introduce the TRIZ methodology in schools and companies.

The scientific committee of TRIZ researchers and experts have devised a specific method for companies and for secondary schools which has been tested in ad-hoc courses organized in schools and companies and have developed educational materials to enhance individual problem solving skills, facilitate and speed up the learning of TRIZ theory and tools.

The educational materials developed by TRIZ consist of:

- a handbook available in 5 languages (French, English, Italian, German, Latvian);
- 5 animations describing efficiently and in full detail what TRIZ is;
- A guide to introduce TRIZ at school.

All the materials are freely available on the TeTRIS website: www.tetris-project.org

TETRIS IN THE COMPANY

The TeTRIS Project, through its courses and educational materials, promotes systematic innovation, efficiency in research, development and creativity. TeTRIS provides a method and practical tools to achieve technical solutions focusing on the objectives set by the company. This way, no time or money will be wasted in unprofitable ideas. With TRIZ a team's creative potential in the fields of research and development, as well as of production, can be dramatically enhanced.

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