



IN2IT

Inventive Thinking Greenberg Sara

















Thinking Methods

Thinking Maps

Creative Imagination

Systems Thinking

Inventive Thinking

and More ···

Let me introduce myself

Professional experience:

- Lecturer at Sapir College. I teach Marketing Strategies, Marketing of Hitech products,
 Technological System Analysis, Systems Thinking and Innovation.
- Founder and creator of the "Development of Thinking Skills course" a multidisciplinary platform for teaching thinking skills in academia, supported by TEMPUS (Trans-European Mobility Program for University Studies).
- Teaching experience: Inventive Thinking (TRIZ) and Systematic Innovation, at HIT Holon Institute of technology, SCE Shamoon College of Engineering and IDC Herzlya.





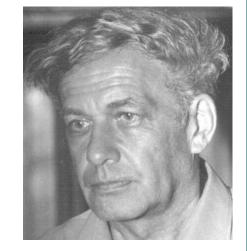
What is TRIZ?

TRIZ

The theory of inventive problem solving, abbreviated TRIZ for the Russian term 'Foriya Resheniya Izobreatatelskikh Zadatch' and pronounced 'treez' was developed by Genrikh Altshuller in the early 50th.

It is designed to support engineers and natural scientists solving inventive problems by using the knowledge of former inventors.

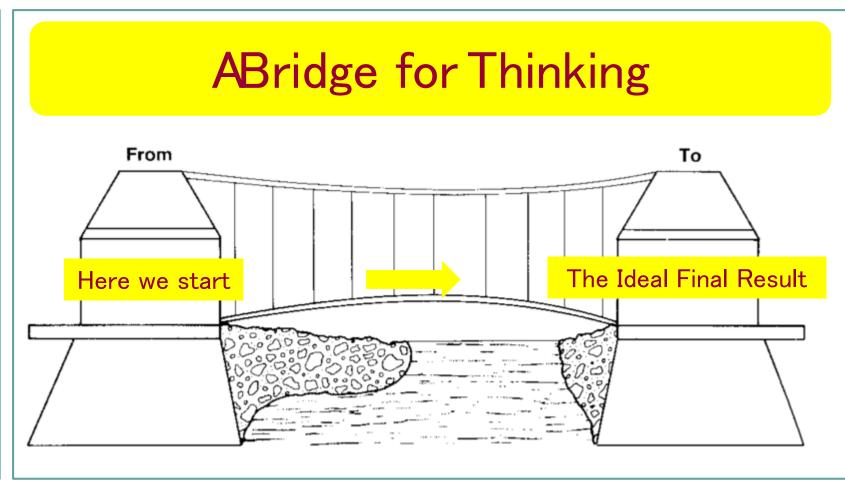
- TRIZ was developed by revealing similarities and common patterns between technological and design problems and their solutions which resulted in patents.
- · Utilizing the knowledge encapsulated in TRIZ makes it possible for anyone to be an innovator.



Source: Moehrle, M. G., 2005 "What is TRIZ? From conceptual basics to a Framework for Research". Creativity and innovation management 14: 3-13.











Inventive Thinking & Ideal Final Result



One of the Ideation tools via TRIZ is: IFR

The Ideal Final Result (IFR): is a description of our invention desired outcome(s).

Our best possible result for describing a problem situation without solving it yet (!)

IFR is one of the basics terms in TRIZ, is considered to be the starting point for a problem solving methodology process.







Your invention goal(s)

Now we can start the Ideation process:

Step 1: Describe what is your entrepreneurship and invention Goal(s)*?

*The Goal is statement that explains what are the invention benefits for the users.

(It is important information that defines a specific and accurate objective.)

Step 2: List of all the expected benefits and main function of your new invention.

(in a later stage of your work, try to drill down to the necessary system components and resources needed.)





Tweel













Books with no ink or paper











IFR - Ideal final result

Rule one:

It is not recommended to guess beforehand whether it is possible to reach an Ideal Final Result or not.

Rule Wo:

Do not think about howard by what means, an ideal final result will be achieved.

Source: Altshuller G., (c2007) "The innovation algorithm: TRIZ, systematic innovation and technical creativity". Worcester, Mass. technical Innovation Center. p.125–126







New inventions

New inventions!



We can look at many more inventions: the squeezable bottles, suitcases, high-speed car air bag, multirotor drone, the autonomic car and I am sure you add many more to this list...







Inventive thinking

Enjoy your entrepreneurship project and have a great success with your invention.

