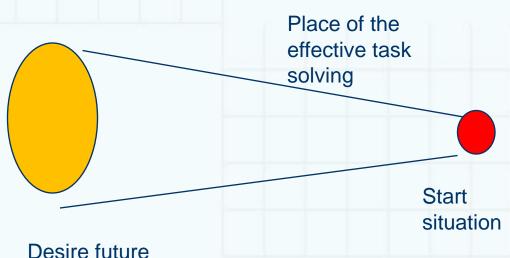
Key Parameter Value (KPV): from business goal to technical decisions

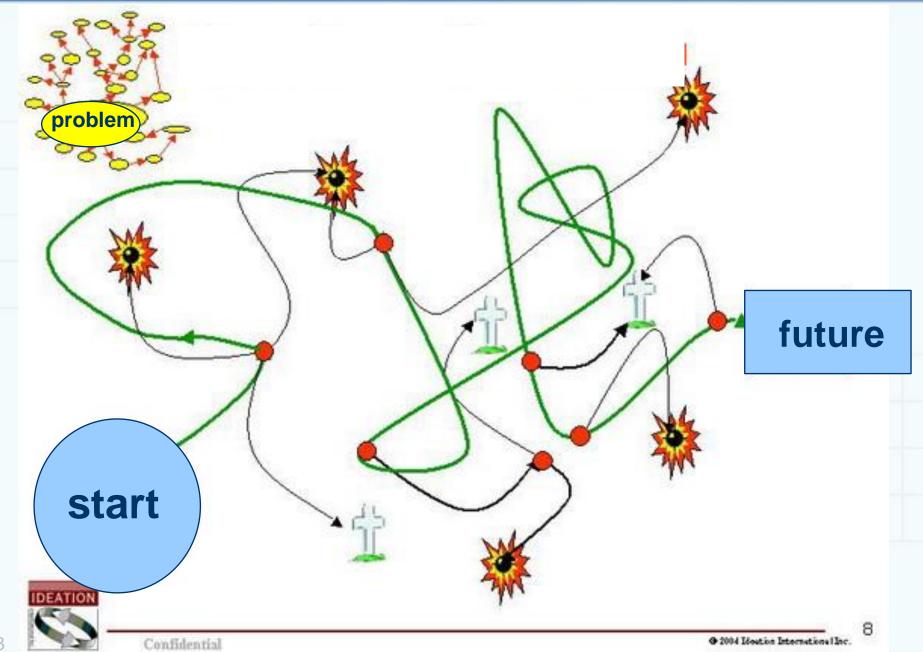
In math the task is solving "from the end"

You need to know the direction of the system development

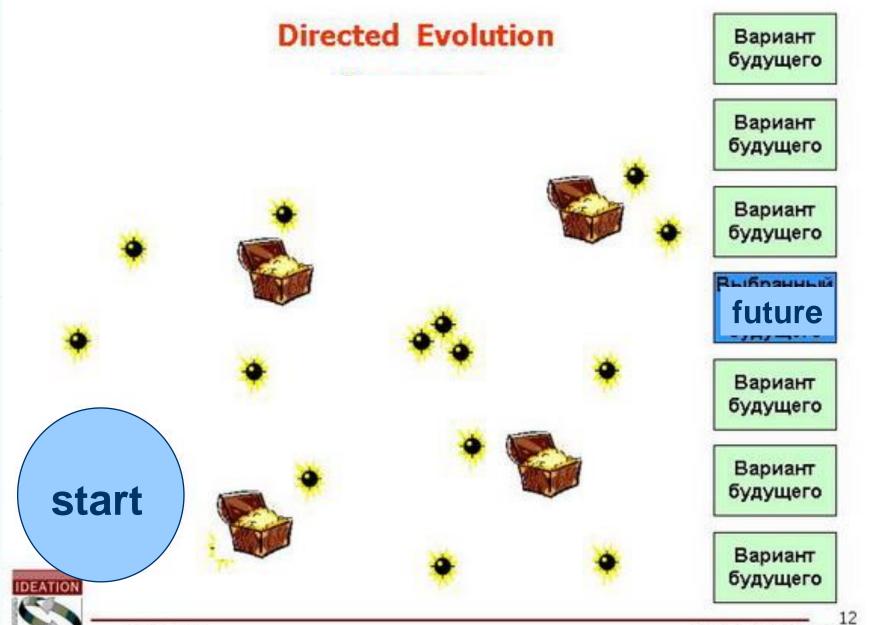


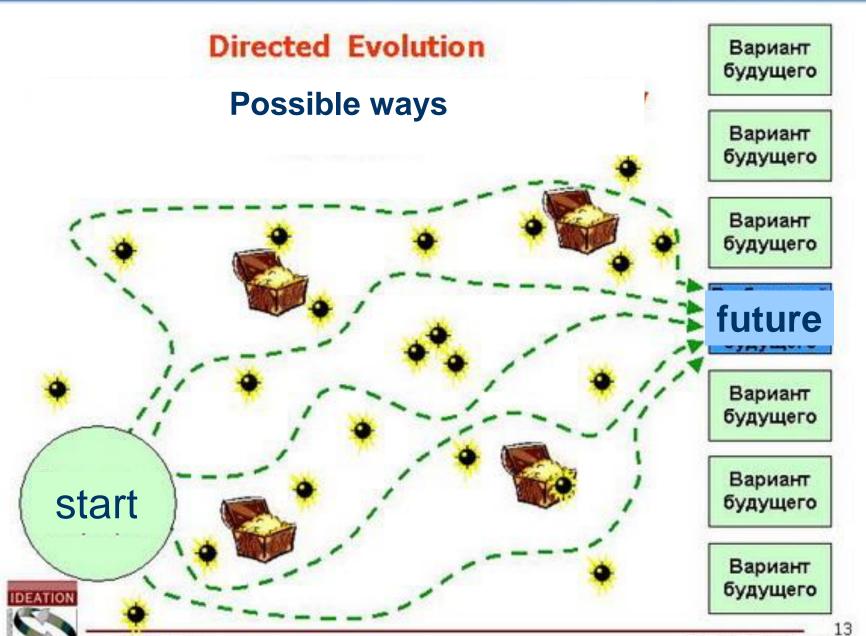


Usual evolution



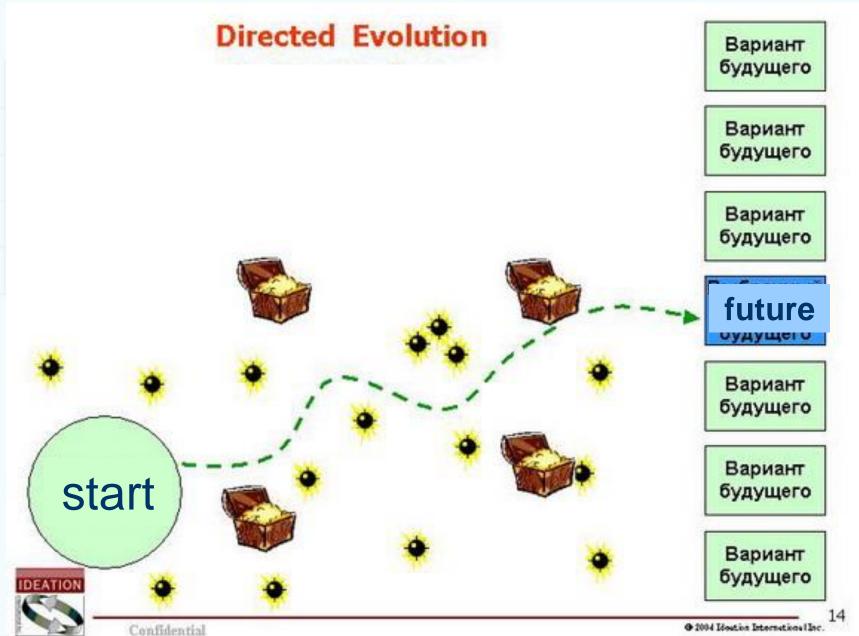
Usual evolution: resources and risk





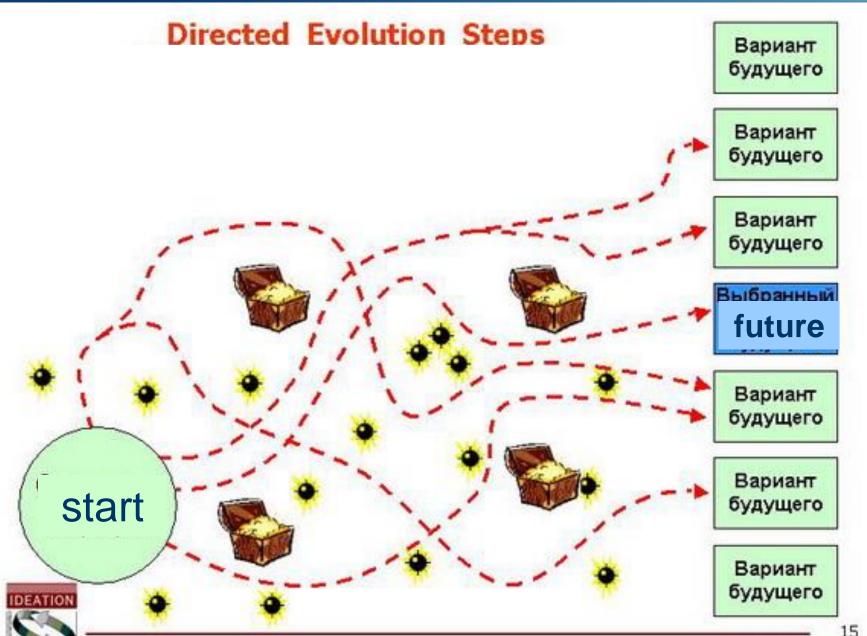
Confidential

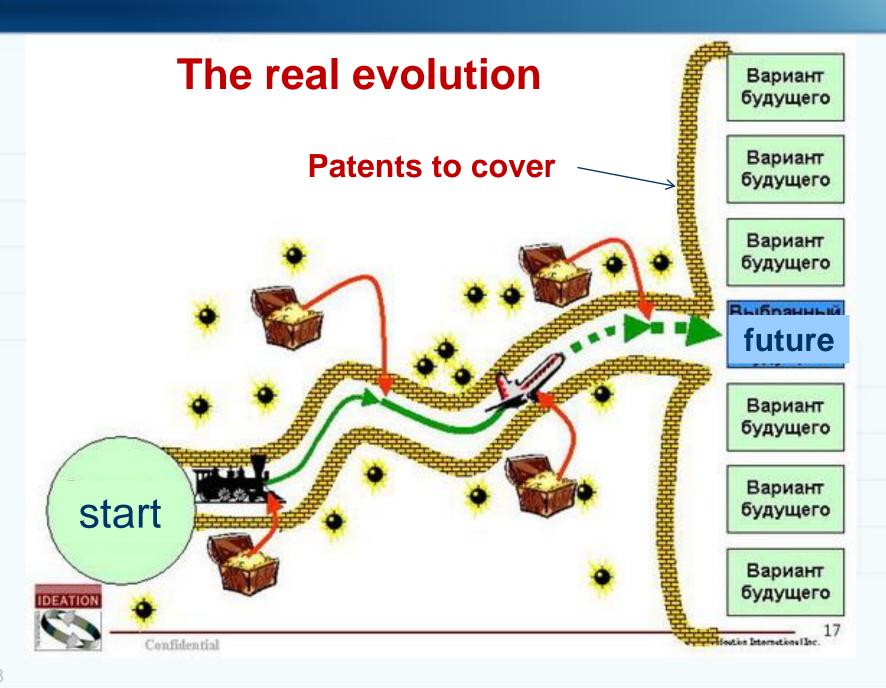
The way is chosen



Ways of concurrent

Confidential





Basics of classic TRIZ

There are 4 main principals of TRIZ:

- **1.Objective Laws** of Technology evolution approach. Every technical systems evolves in accordance with objective laws
- 2. Contradiction approach. Evolution of technical systems goes by sharpening and resolving of contradictions
- 3. Model approach. All operations of problem resolving process are made no with real object but with their models of different abstraction degree
- 4. Consideration of a solvers psychological properties. Every TRIZ methodology is realizing by action of specific persona. It is very important to take into account features of human brain first of all mental inertia

Technical system

Ideality

Function

Ideal Desired Result (IDR)

Resources

Technical contradictions

Physical contradictions



Criteria:

Functional
Technological
Economical
Anthropogenic



From business goal to technical decisions

Key product values – Physical parameters

Parameters structuring

- Key product values product demands
- Why does consumer buy this product / technology?



Circular saw





To see cutting line – solution - demand

!!! It is difficult to describe product possibilities

Usual mistakes:

- Unimportant functions improving
- Improving of objects with low potential of development
- Incomprehensible proposal

Unimportant functions improving



New electric shaver shaves better (???)

Unimportant functions improving



New electric shaver shaves better

Authors decided: better=faster they lost!

Don't lost the perspective of development!!!

Improving of objects with low potential of development

1950 2115

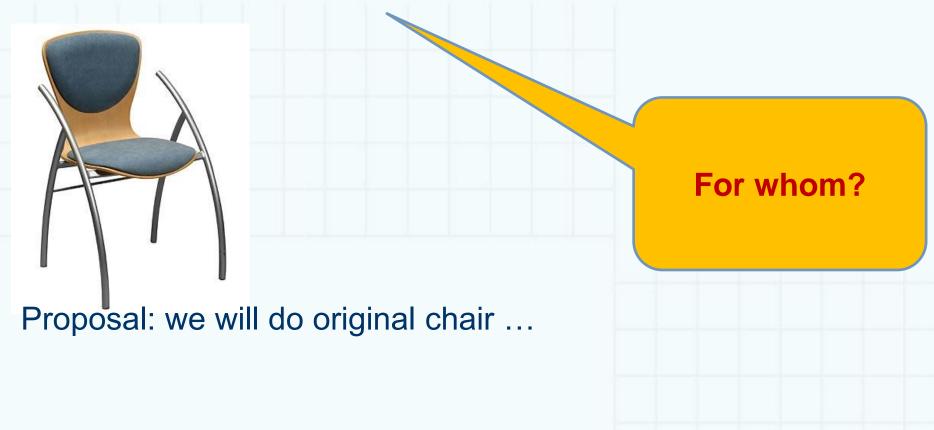


1930





Incomprehensible proposal





Chairs for compact storage



to reduce of muscular loading



Chair when you can't to swing

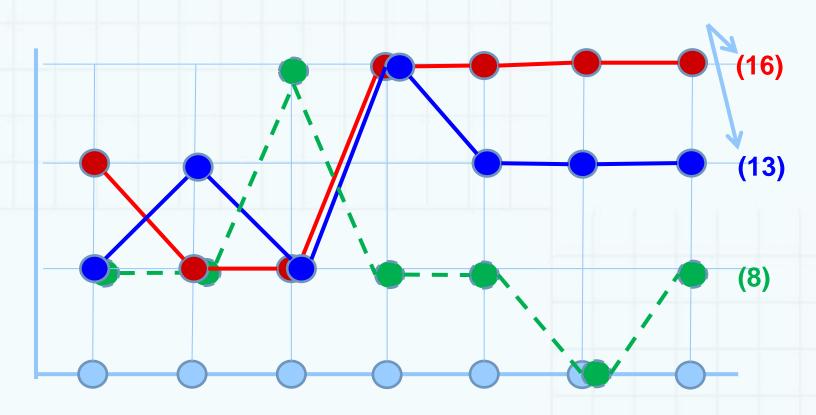
Accurate definition of using

Accurate definition of market



- find the most important parameters of kettles
- determine the new product

Market demands and products



Have you consumers for new proposal?

Market is not only money
Market is understanding about concurrent objects



Наличие рынка

You may imagine that your object **is unique**But may be it is only one of the different variants



The task:

- 1. To find the main criteria of development for your object
- 2. To determine WHAT was changed in your object on every stage (and WHY)
- 3. To imagine what will be with your system in a future (to draw/ to describe)