Example for TRIZ trainning - How to make the good Choice?

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TRIZ Trainning cource

History

Tool

- RCA, Function Analysis, Resource, etc.
- Principles, Standard, Su-F model
- Contradiction, IFR
- Evolution
- ARIZ

To explain TRIZ,

every lecture needs easy & simple example

BUT, the example does NOT related each other.

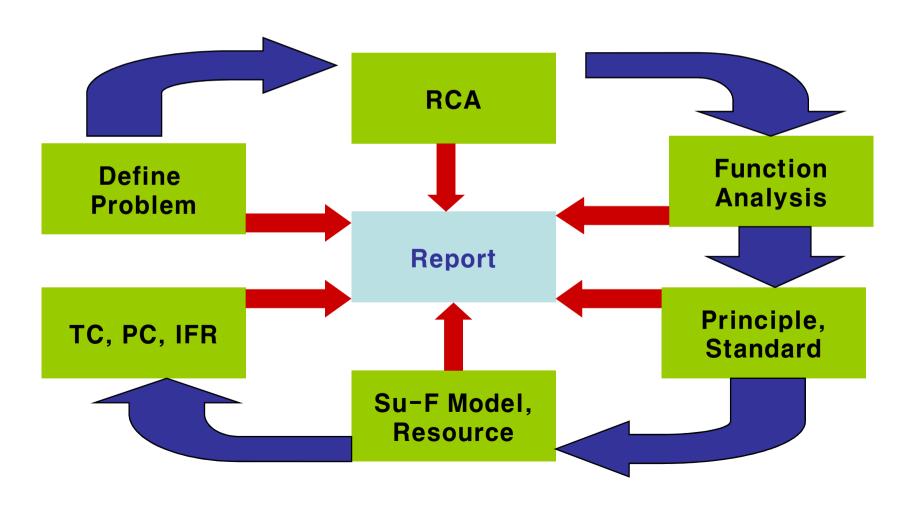
Voice of our Customs

- TRIZ is so difficult to understand......
- Every example is so easy and understandable, BUT when I want to apply my problem......HARD
- Even good Example explain tools, BUT it's so far to me.

TRIZ trainning teach the TRIZ tools,
BUT don't teach how to apply his problem.

My TRIZ Trainning cource

- try TRIZ tools for ONE Example
- My Example is Alarm clock.

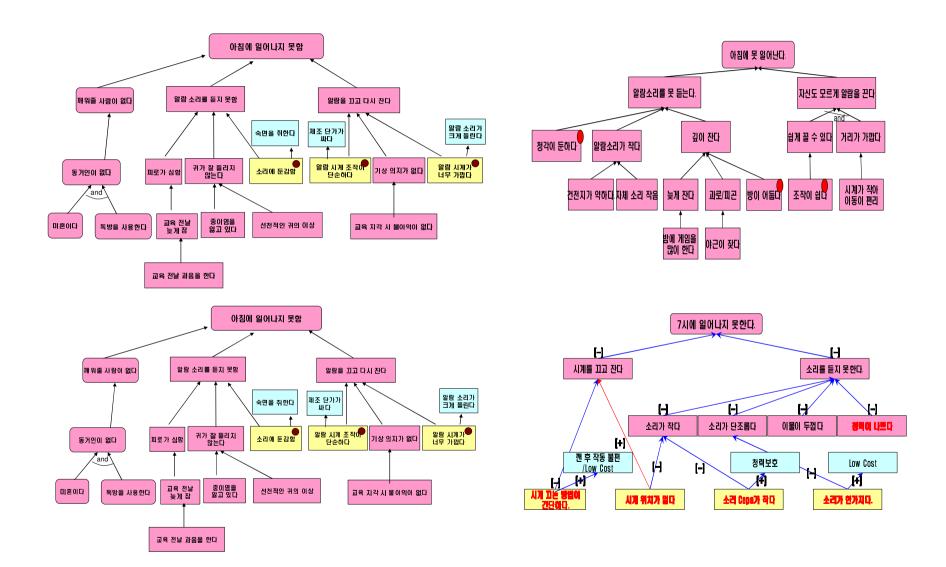


Why I pick up the alarm Clock?

- The technical system of example is simple to know.
- Technical system can change.
- People knows TC well and have some experience.
- TC is too cheap to get and easy to reach.
- Maybe everyone feels uncomfortable.

- Everybody knows what alarm clock is.
- Alarm clock can change and evolve.
- People knows and have a Alarm clock.
- Alarm clock is too cheap to buy.
- Maybe everyone could not wake up at time.

RCA



Function Analysis 가동하다 가동하다 배터리 모터 소리전달 사람 스피커 ON/OFF ▼ 움직이다 깨우다 조작판 바늘 알람 제어기 알람(버튼) 신호전달 물직이다. |가리키다. Alarpa On/Off 숫자판 조작부 Alarm Alarm stop Time-Measurement subsystem subsystem **Switch** Stop **Subsystem** 지지 On 침대 Inform Inform **Stress** 시계바늘 Inform 섀 Alarm time control Hold Human set subsystem Inform 시침 rotate stimulate rotate Hold/ 모터 사람 Stress 배터리 스피커 사람 Inform control

control

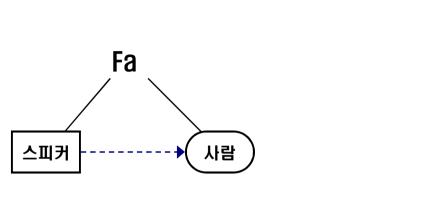
Stop

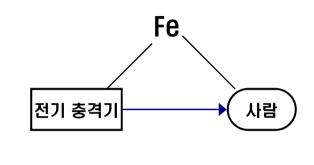
ON/OFF

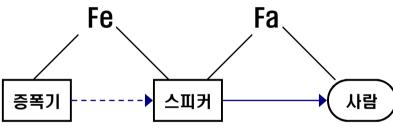
알람 제어부

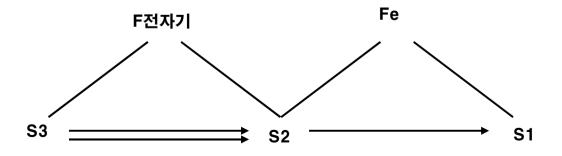
볼륨 제어부

Su-F Model









Result of problem analysis

Distance

- TC 1: The distance between people and alarm is short, alarm sound is loud but easy to turn off.
- TC 2: The distance between people and alarm is long, alarm sound is silent but hard to turn off

Control

- TC 1: The control unit of alarm is simple, alarm is cheap but to easy turn off.
- TC 2: The control unit of alarm is complex, alarm is expensive but hard to turn off.

40 Principle

15. Dynamicity







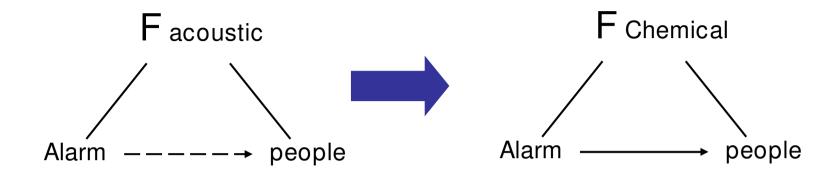
40 Principle

28. Mechanical interaction substitution





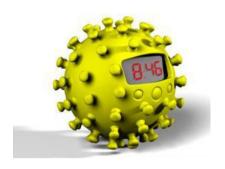
Standard







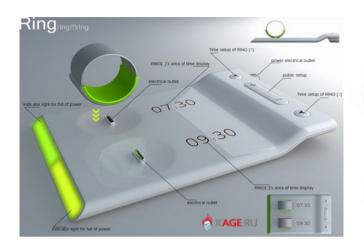


















Conclusion

When you choice some example for TRIZ trainning...

- The technical system of example is simple to know.
- Technical system can change.
- People knows TC well and have some experience.
- TC is too cheap to get and easy to reach.
- Maybe everyone feels uncomfortable.

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MATRIZ Level 3

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