Value Creation and Smart Green City in a time of Creative Economy

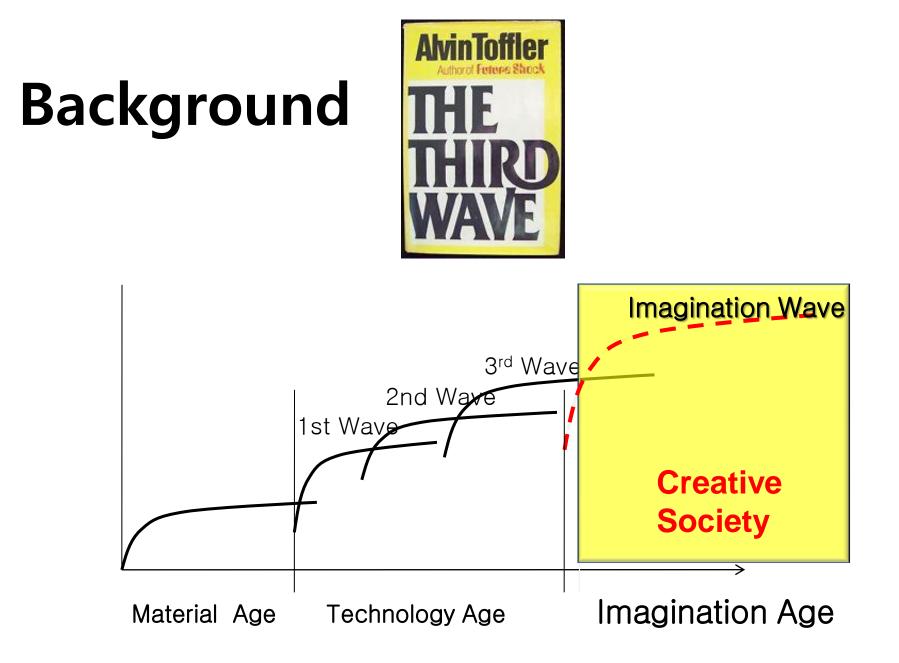
-focused on disruptive innovation

April 8, 2014 Changyu Hwang Seoul Venture University



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- Consilience of Evolution and Innovation theories
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- Conclusion





Keywords: Imagination, Creativity and Technology



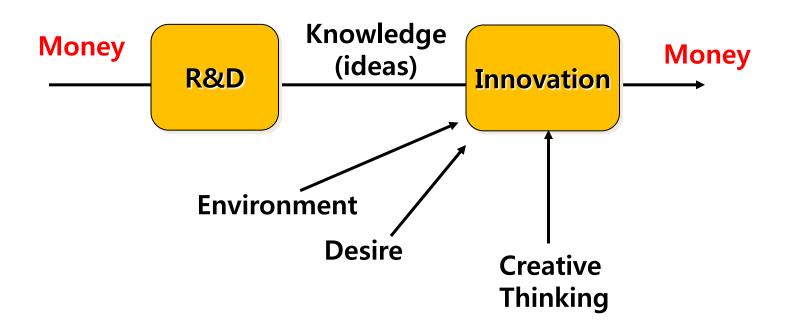




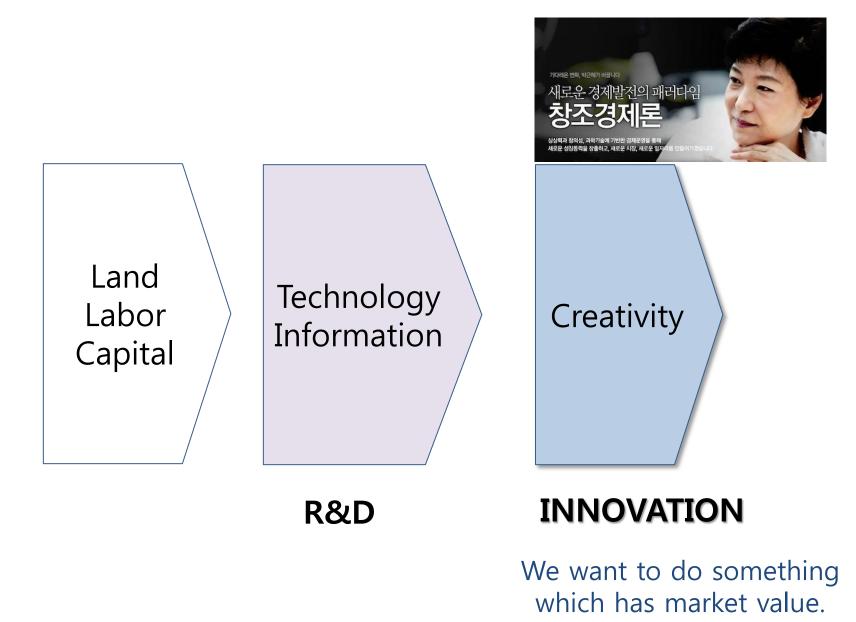
What is Creative Economy ?



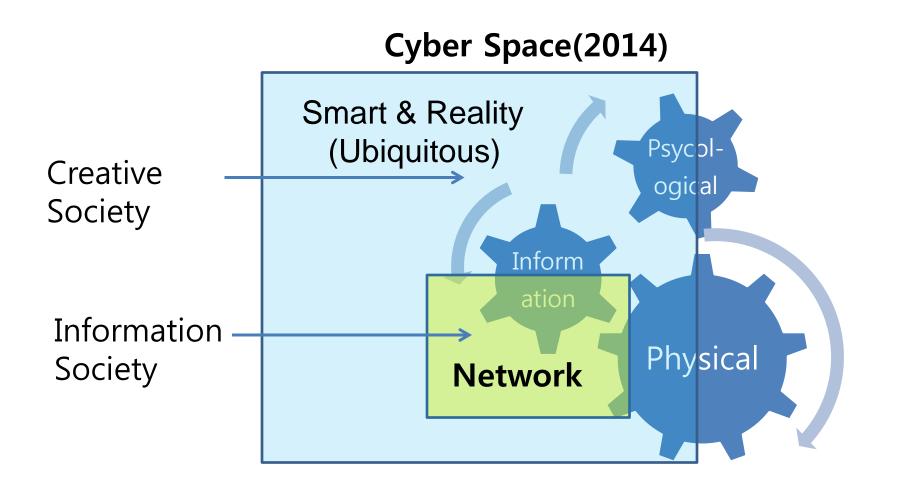
Creative Economy is from Innovation..



Shift of Value Center



Expansion of Cyber Space



A rate of change is getting high !



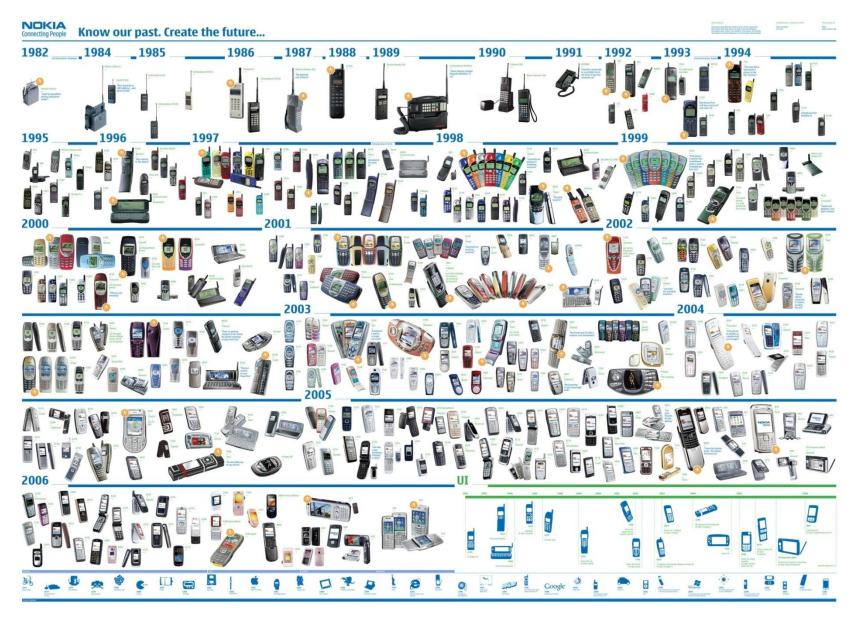


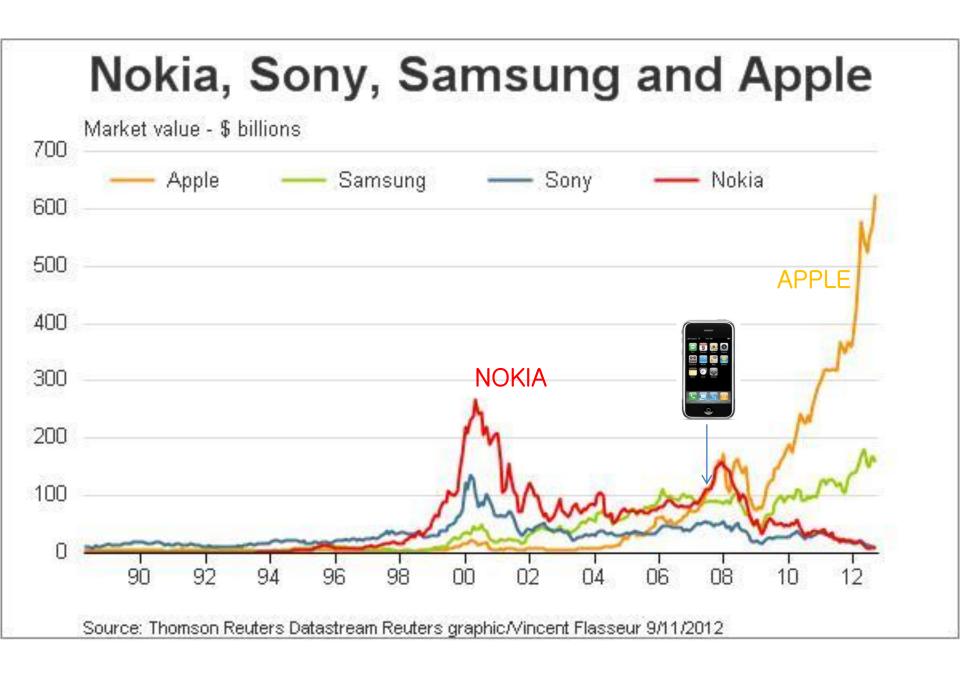
Boat racing is on a calm lake (Environment)..

Rafting on turbulent river

NOKIA,

Once a king of hand-phone industry, Symbol of Finland..

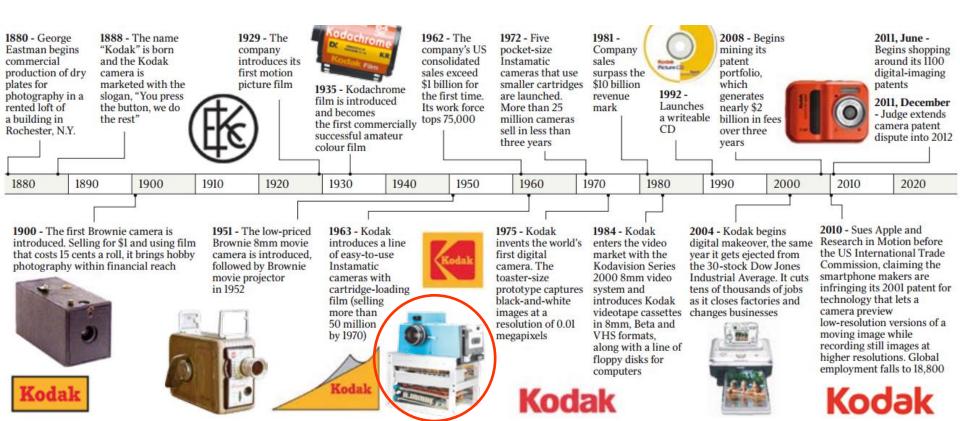




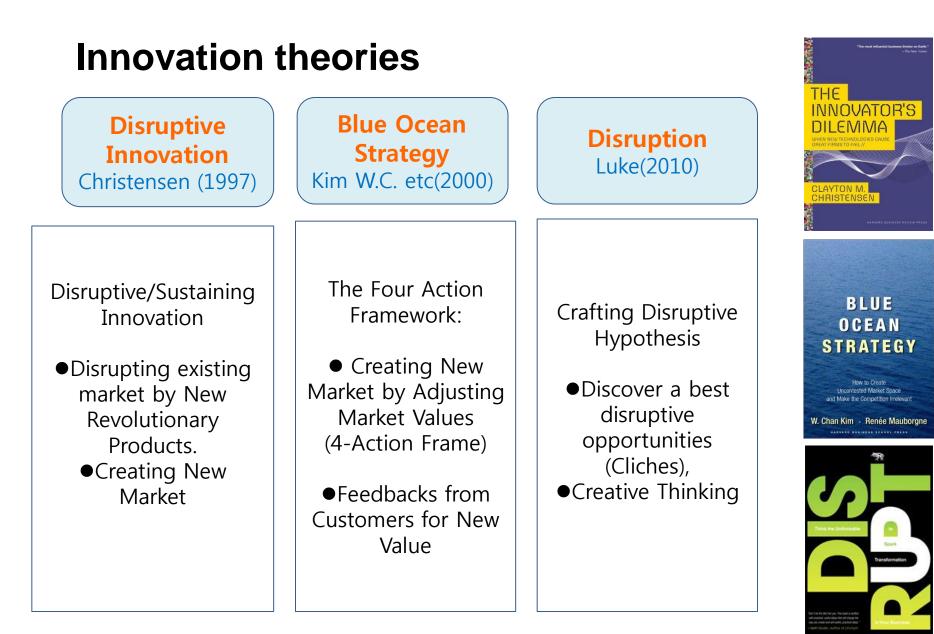


KODAK founded (1880) Bankrupt (Jan. 2012)

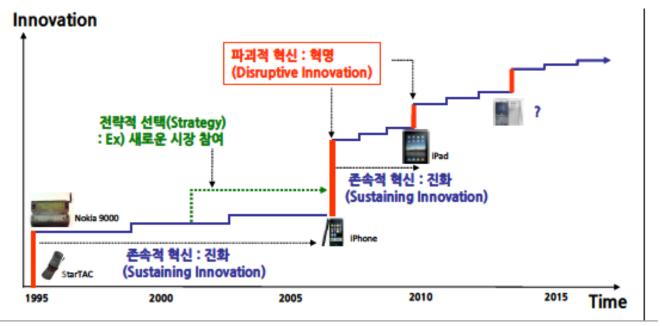
George Eastman, Kodak founder



Summary of Advance Studies



Disruptive/Sustaining Innovation



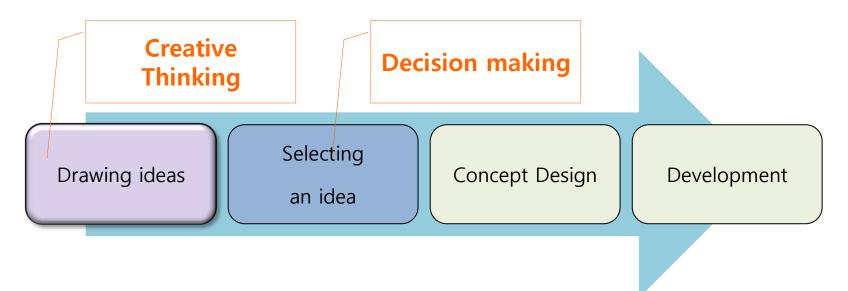
자료: KDB대우증권 리서치센터

What we need is..



Inner Processing Thinking !

Outer Processing Working ! • Dilemma in Ordinary Product Development Process



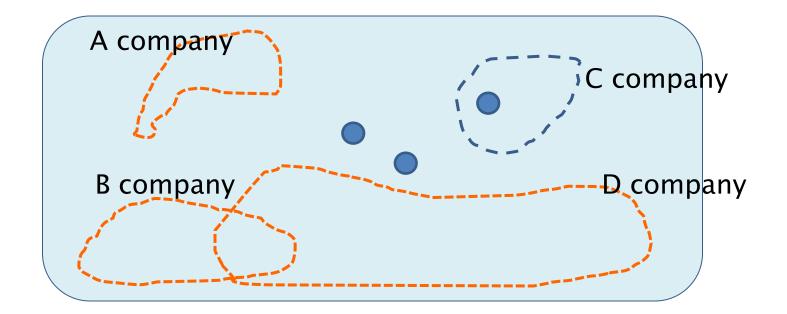
Assumption:

the more idea concepts there are, the higher chance a successful idea likely to be included.

However,

the more ideas there are, the lower chance the best idea among those ideas can be selected.

• Dilemma in Brainstorming (BS)

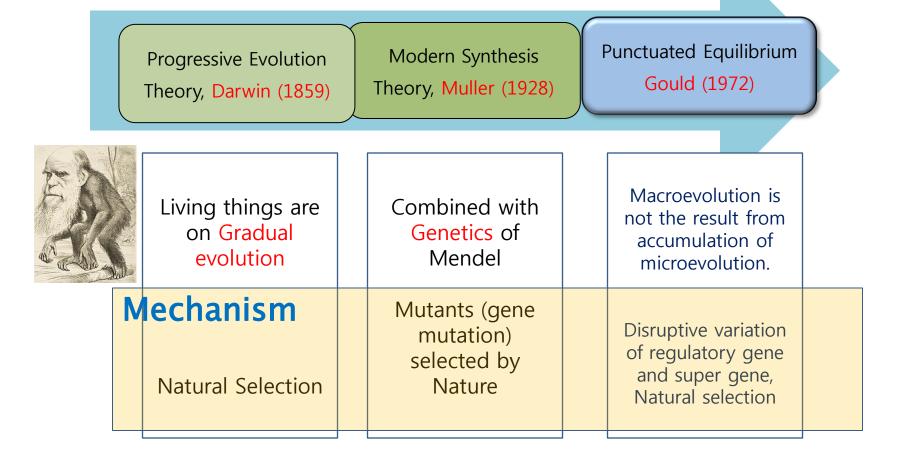


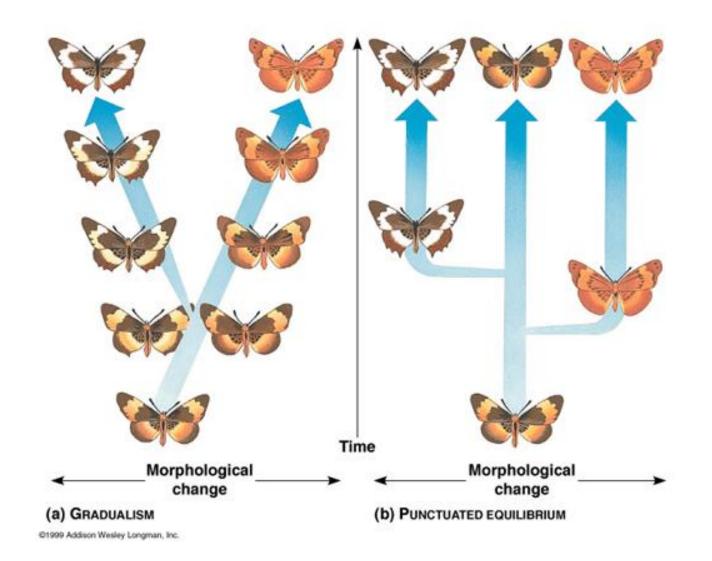
How many ideas are enough ? When will we stop brainstorming ? Will the selected idea survive in a market ?

Destiny of product is determined in a BS stage.

Due to the lack of reliable methodology, a majority of innovative products fail in the market.

Evolution Theories





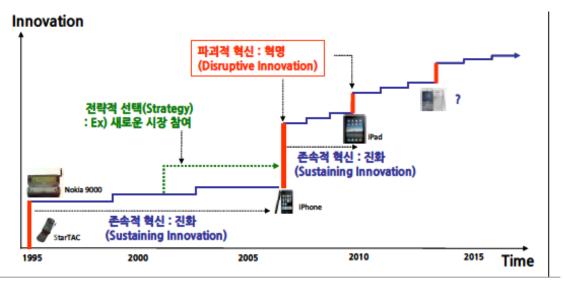
Consilience of Evolution and Innovation Theories

• Consilience ?

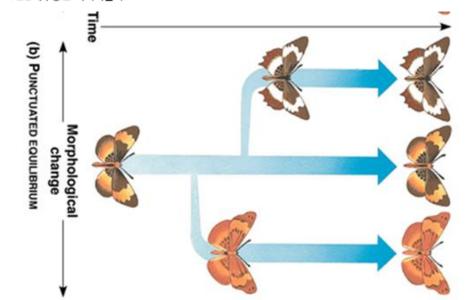
 The Consilience of Inductions takes place when an Induction, obtained from one class of facts, coincides with an Induction obtained from another different class. • Consistency Analysis

	Evolution (Punctuated Equilibrium Theory)	Innovation (Disruptive Innovation Theory)
Objects	Living things	Product / Service
Survival Condition	Selection by Nature	Selection by Market
Process	Punctuated/ Gradual	Disruptive/Sustaining
Results	Creation of New Species (Branching)	New Product/Market Creation
Variation factor	Change in Natural Ecosystem	Change in Technology/Market Ecosystem
Mechanism	Sudden Variation of DNA	Replacement of Product's DNAs
Supervisor	Nature	Enterprise

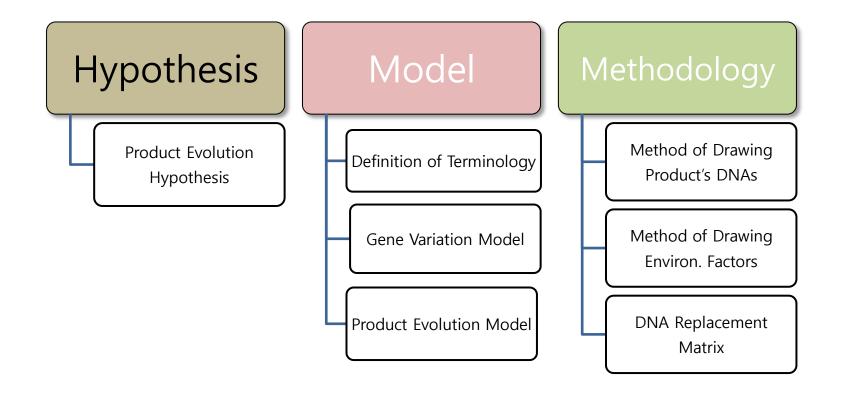
Consilience of Evolution and Innovation Theories



자료: KDB대우증권 리서치센터



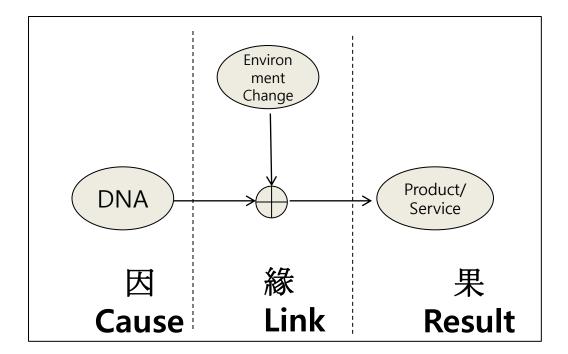
Suggestion of Disruptive Innovation Method



Product/Service Evolution Hypothesis

- First, product/service evolve toward the optimum state depending on environmental changes, and a company is a supervisor of evolution.
- Second, optimum evolution comes from the selection of optimum direction due to environmental change, only the ones evolved into optimum state are selected through the market ecosystem while the rest die out gradually.
- Third, product/service follows gradual evolution of performance enhancement by demand of market. At this time, the product/service DNA, which is the fundamental property determining the species of product/service, remains unchanged.
- Fourth, only through the change of product/service DNA appropriate for environmental change, the species of product/service possessing new disruptive customer value can be born and create new markets.

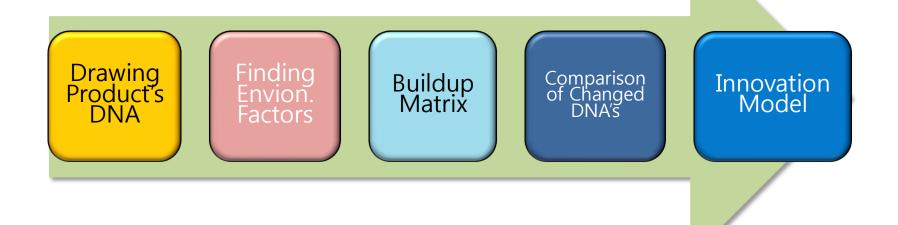
Product/Service Evolution Model



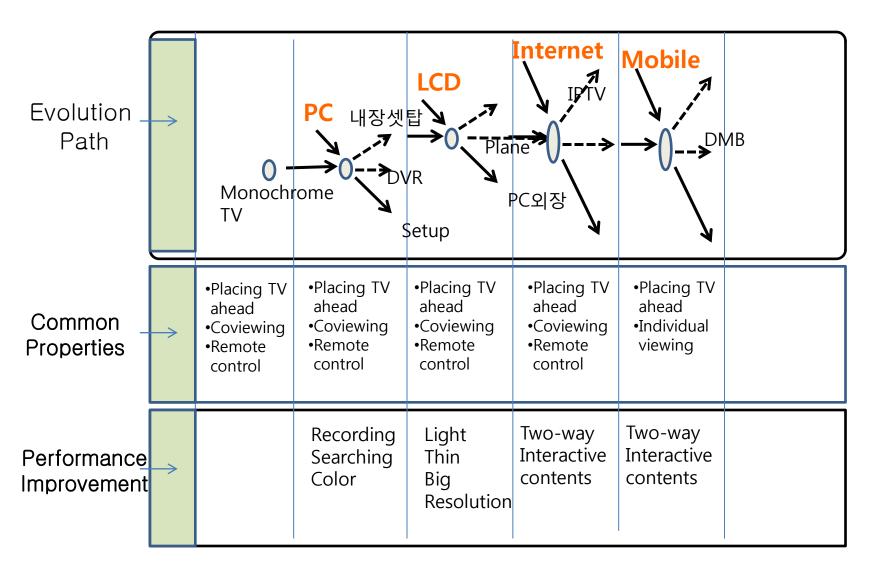
Product combines with Environment. Supervisor of Evolution is an Enterprise.

Disruptive Innovation Method for Product Innovation

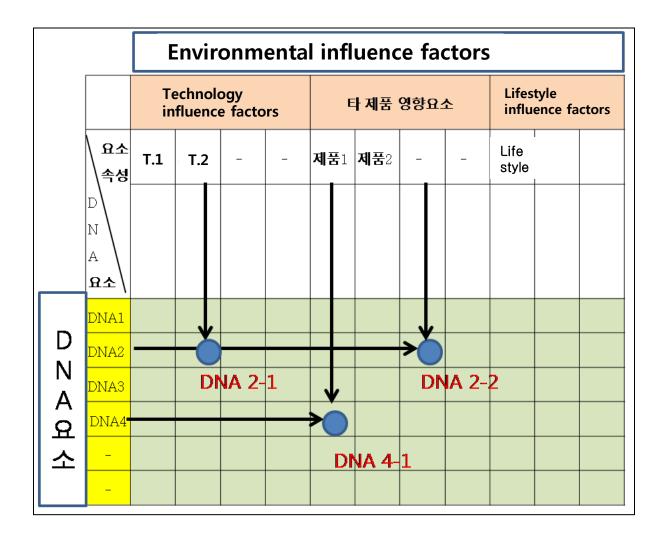
• Process



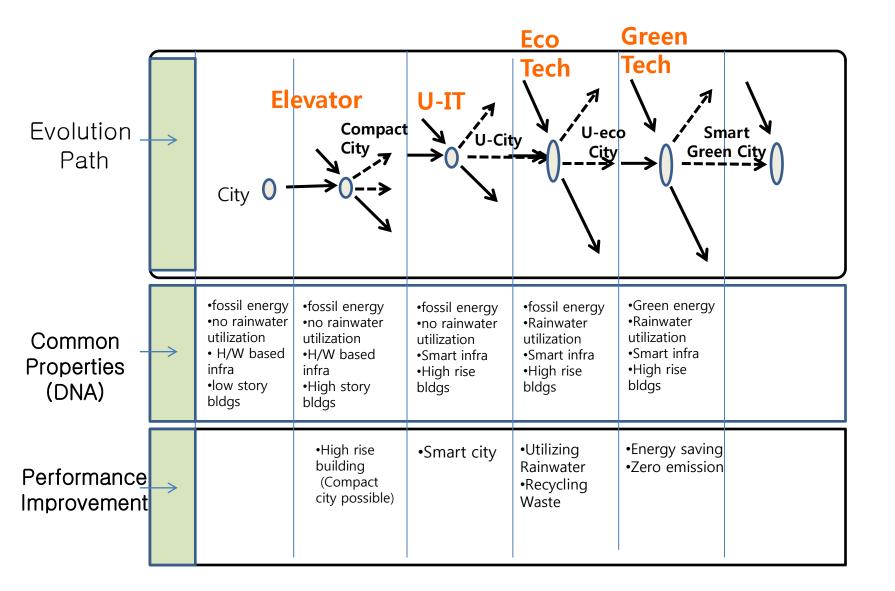
– Derivation of DNA of Product (TV)



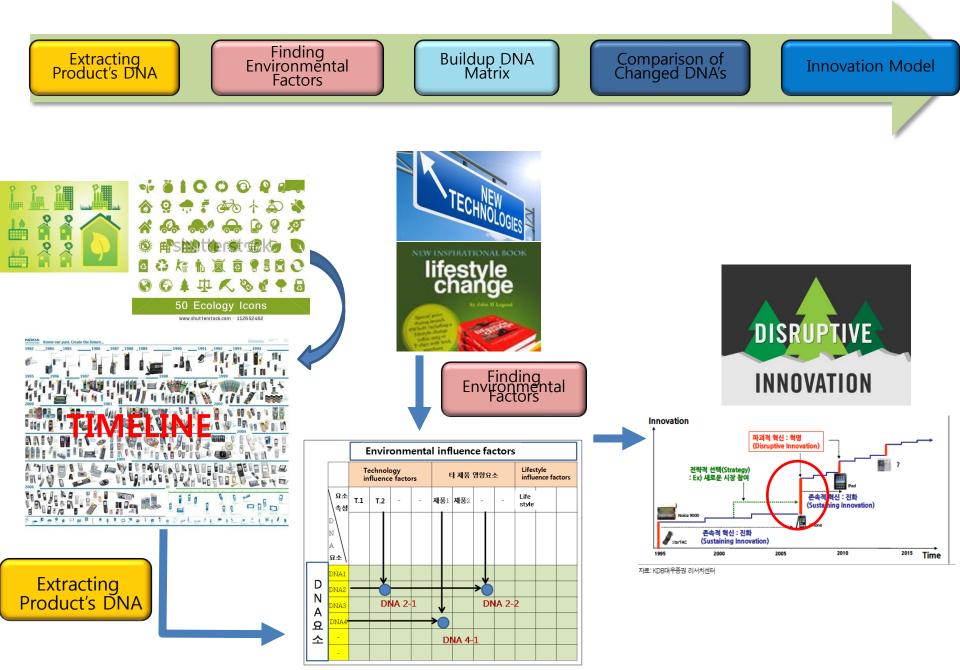
• DNA Replacement Matrix



– Example: Smart Green City (Preliminary)



Future work of my group



• Proposed Method ..

Add a vector of "fundamental attribution" to divergent thinking for innovation

