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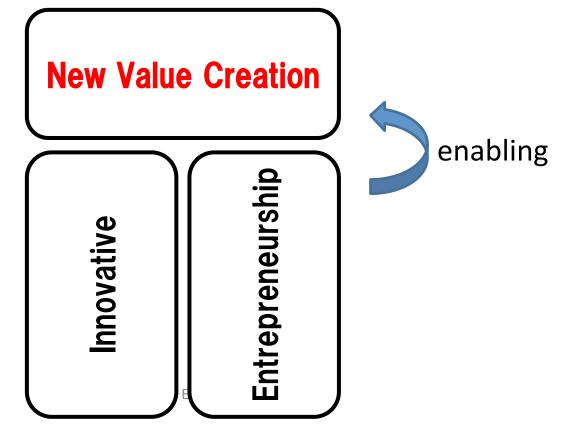
Keio University Global Innovator Acceleration Program 2015 Day 7 Design Process Exercise

Graduate School of System Design and Management EDGE Program Team

2015 Keio EDGE 1

Keio EDGE Program Goal

- It is to convert you to "value creation" minded person.
- Innovation and enterprise are both merely an approach.



Keio EDGE Program 2015 Intensive Workshop

September				October		
20 th	21 st	22 nd	23 rd	27 th	4 th	5 th
Kickoff & Innovative Thinking	Design Thinking	Systems Thinking	(Global Innovator Forum)	Prototyping and Testing	Business Synthesis	Design Process Exercise

to think innovative

to think human centered

to think as a system

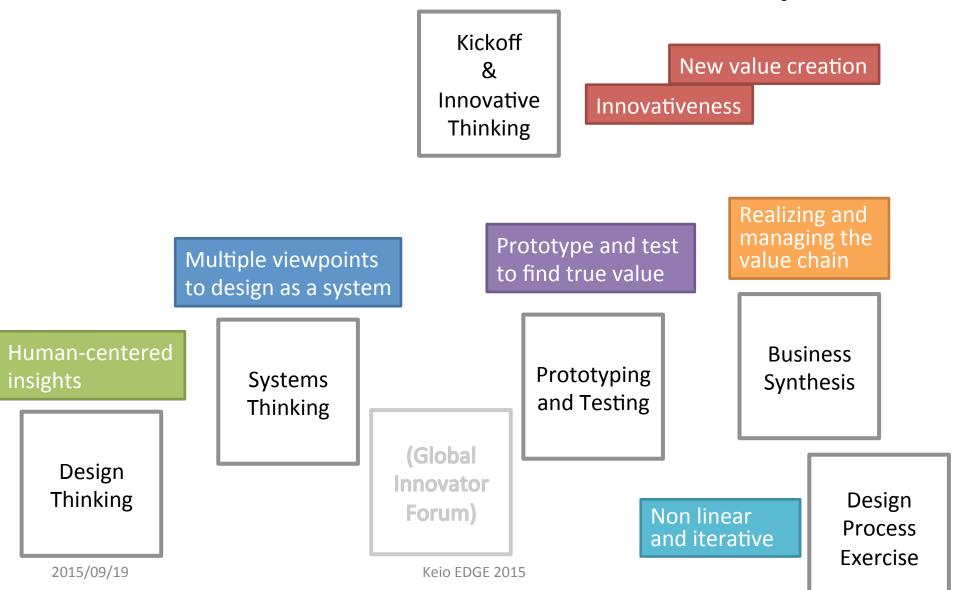
"Innovatorship"

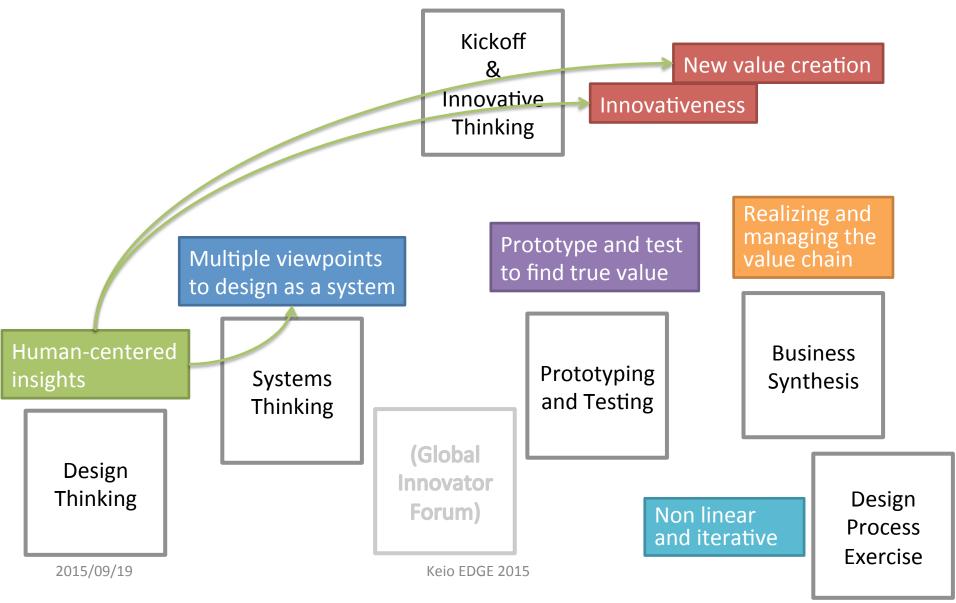
do while thinking think while doing

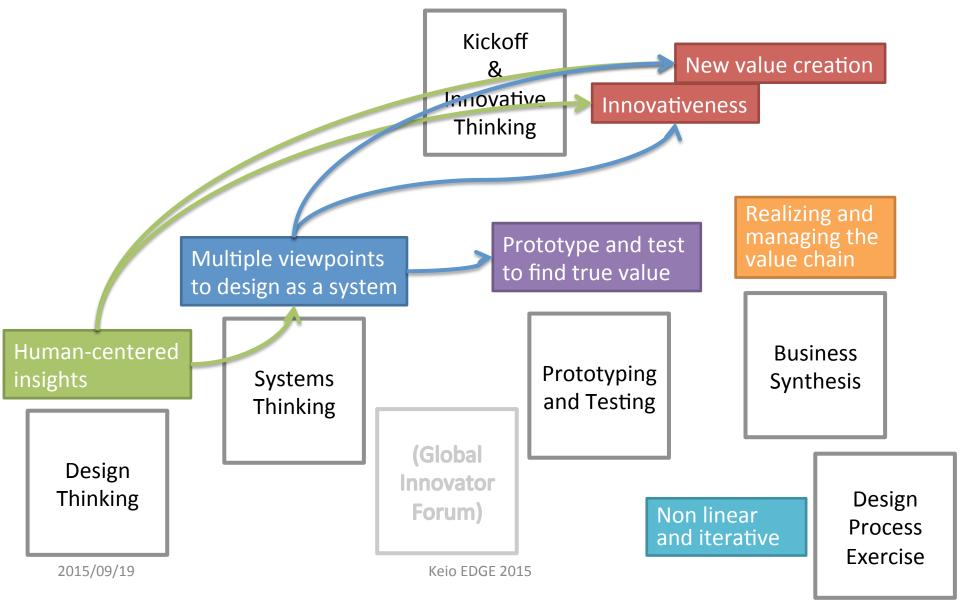
to design a business

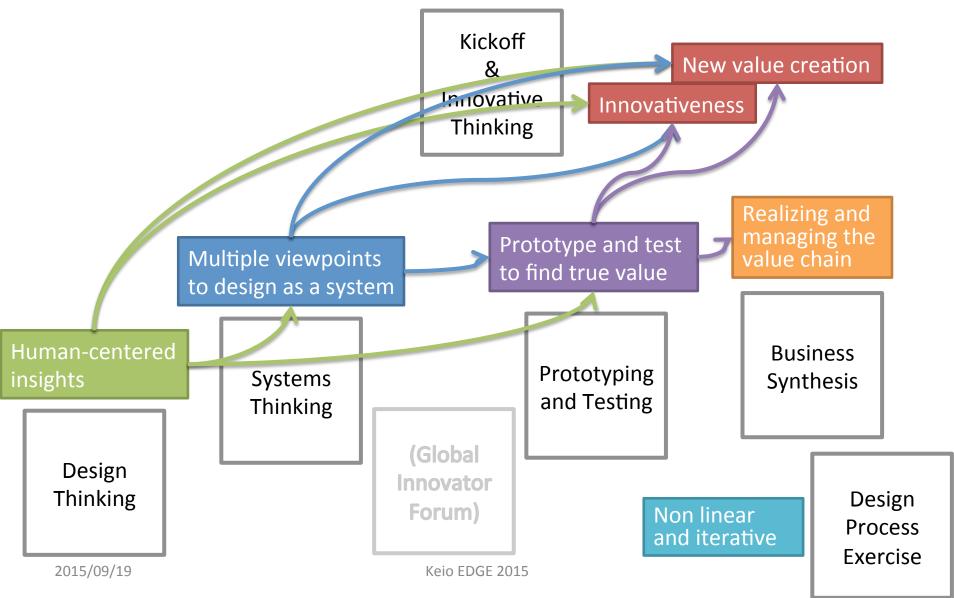
to tackle innovative design challenge

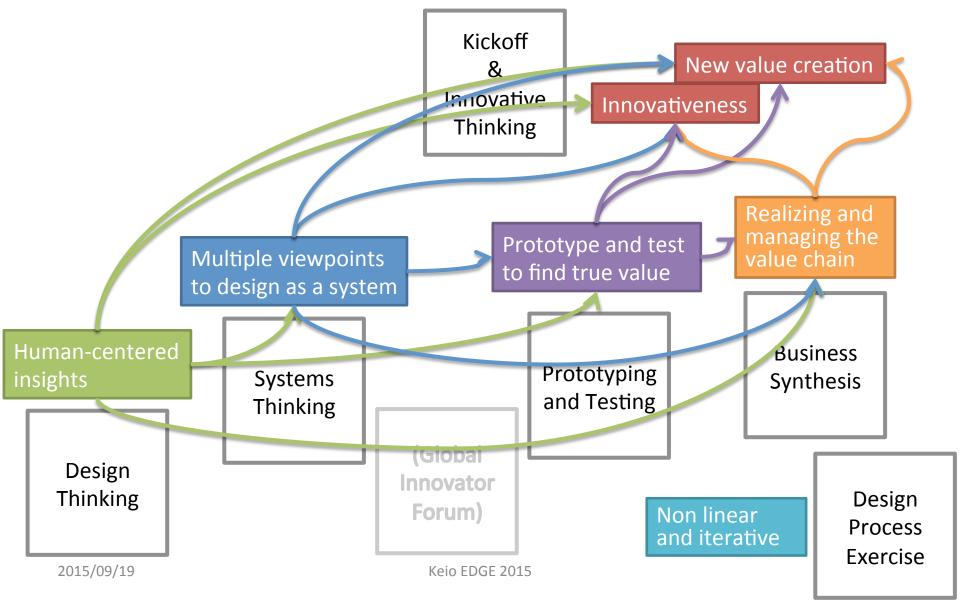
2015/09/19 Keio EDGE 2015

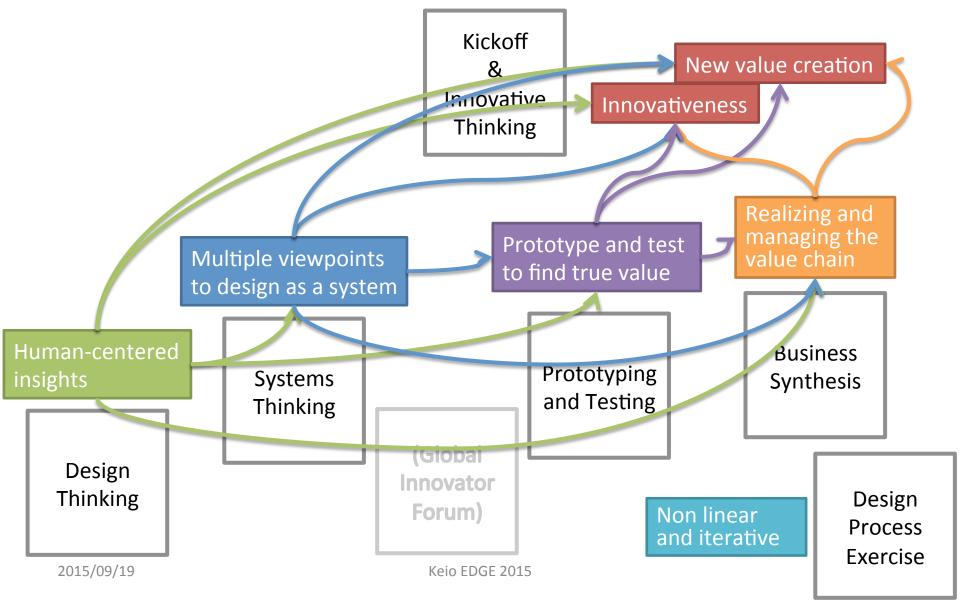


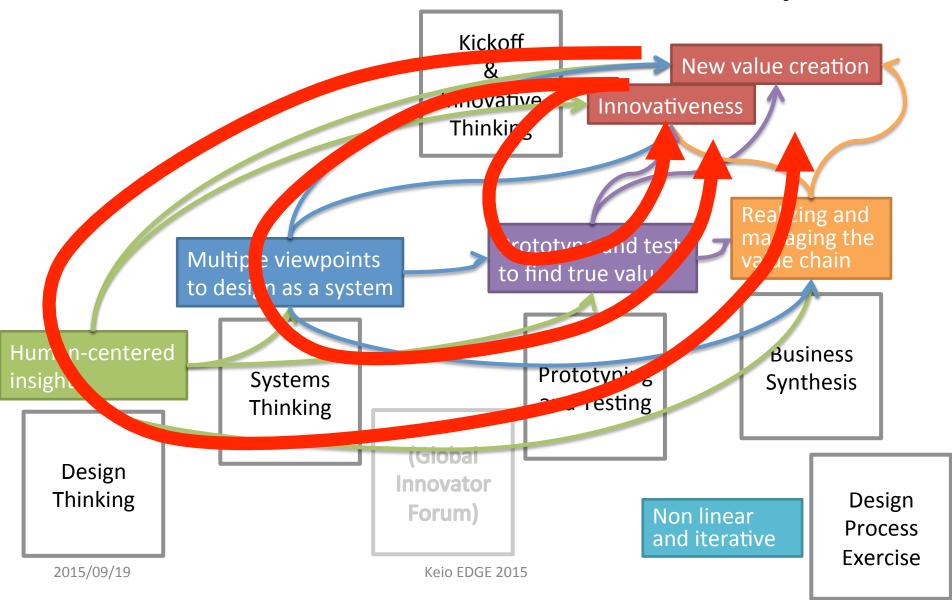












New Value Creation Process: "Big Picture"

You will work on this at PBL.

problem definition

design principle functional design

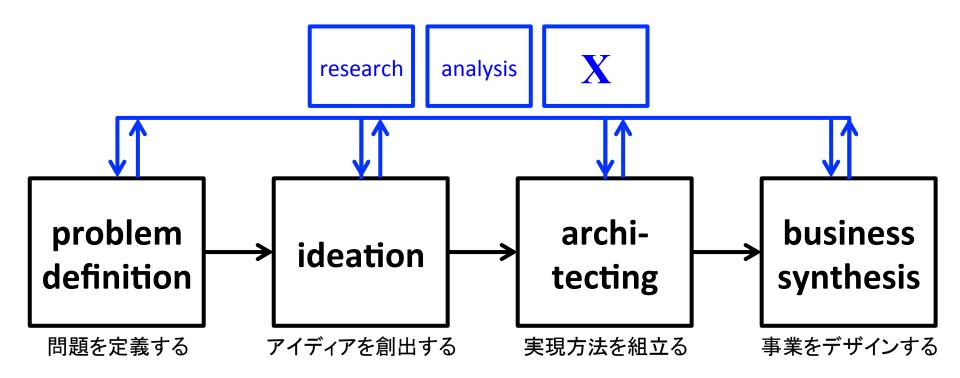
physical design

use-case

value proposition unit economics

marketability profitability

Keio EDGE Program Day 7 Design Process Exercise Basic Framework



Problem Definition

- It can be said that it is more difficult to find an innovative idea or solution for an ordinary problem or question.
 - ex. How can we improve the automobile gas mileage?
- Define your problem or question so it is unfamiliar but interesting and also important.
 - ex. How can we improve the accumulated gas mileage of a person and his/her cars in a time frame of 10 years?
- Try to find innovative problem space that is fascinating and worth investing time to explore.
- This is also called "reframing" a problem.

[Innovative Problem Definition Example] KOKUYO Harinacs (staple-free stapler)



https://www.kokuyo.com/en/corporateprofile/history/episode_22.html

- How might we "staple" documents without using staples?
- The manufacturer was not stuck with their bias for conventional stapler and were able to define an innovative problem to solve.
- The question seems to be crazy in the beginning, however, the manufacturer did not stop expanding their solution space.

【例】コクヨ 針なしステープラー ハリナックス



http://www.kokuyo-st.co.jp/stationery/sl-stapler/handy/handy10.html

- **針なしで紙を留められないか?**という課題の定義がホッチキスの常識に囚われていない。
- 当たり前の商品をさらに一歩進めて考えてみようと した課題意識が秀逸。
- 馬鹿げている、と言って捨ててしまわなかった検討 過程がおもしろい。 15

Keio FDGF

Problem Definition: Approach

- Design Thinking approach
 - Fieldwork
 - Observation
 - Interview
 - Empathize
 - Prototyping and testing
 - **—** ...
- Systems Thinking approach
 - Structurize and visualize from multiple viewpoints
 - CVCA
 - Causal Loop Diagram
 - Value Graph
 - Functional and Physical Architecture
 - ...

Find interesting insight and define problem.

Problem Definition: Approach

- Logical Thinking approach
- Statistical approach
- History search
- Literature search
- Google search
- Data analysis
- Expert interviews
- Your domain knowledge and network!
- ...

Find interesting insight and define problem.

Problem Definition

- Try to find many interesting insights and questions.
- Gather those information and organize, structurize, and visualize to make sense out of them.
- Then, try to put your problem definition into a sentence. No need to focus on just one sentence, you can work on multiple sentences simultaneously if you want.
- You can use "How might we...?" format or any other question form.
- Choose your favorite problem definition.

Design Process Exercise: Context

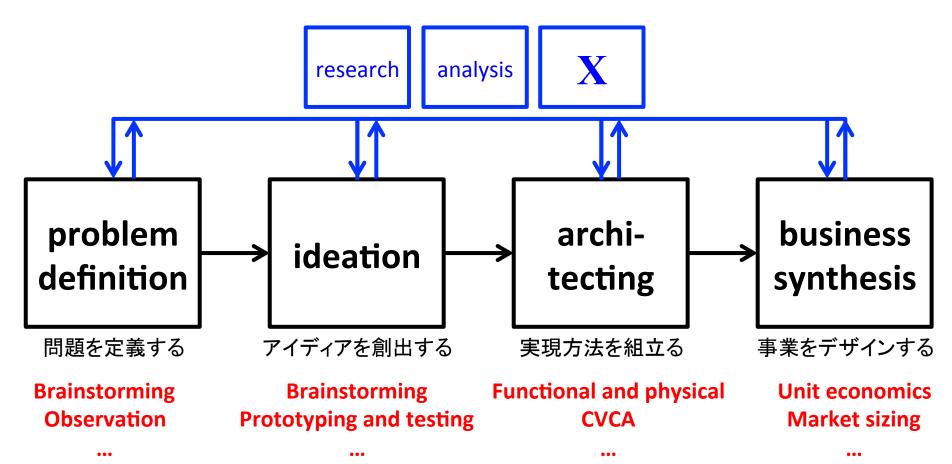
 You are a team to design a value providing solution around the desk for following person and condition.

- He/she is trying to read an article written in foreign language.
- He/she sometimes wants to highlight the article with multiple markers.
- He/she sometimes wants to look up in Google and write notes on Evernote with the laptop sitting in front of him/her.

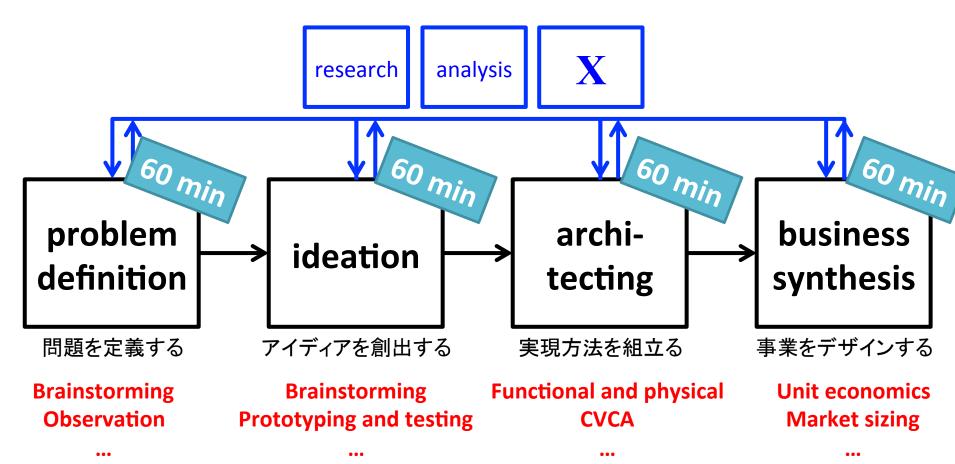
Design Process Exercise: Context

- Your providing value can be
 - pain reliever(s)
 - gain creator(s)
 - or their combination.
- You can imagine someone like me as your target.
 - always busy
 - not a student, a professional
 - reading foreign language article is not so much of a problem but not a piece of cake
 - also works late at night
 - good at computer and other gadgets

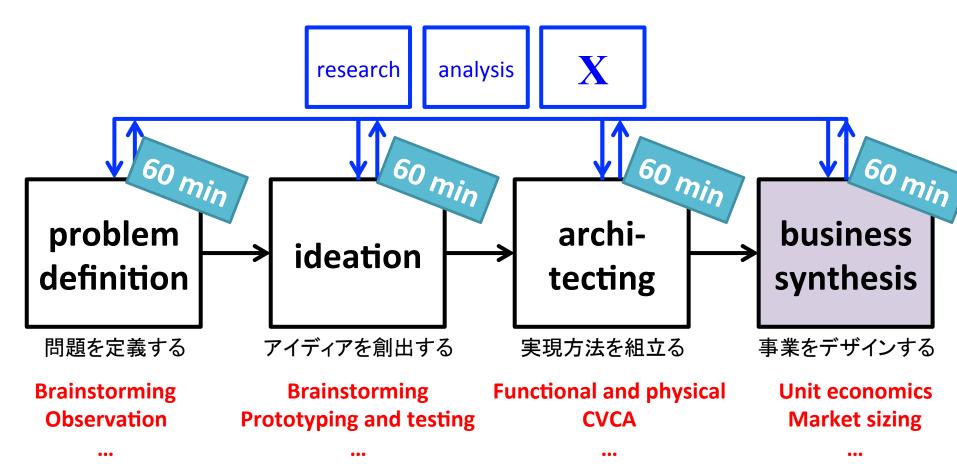
Keio EDGE Program Day 7 Design Process Exercise Basic Framework and Suggested Approaches



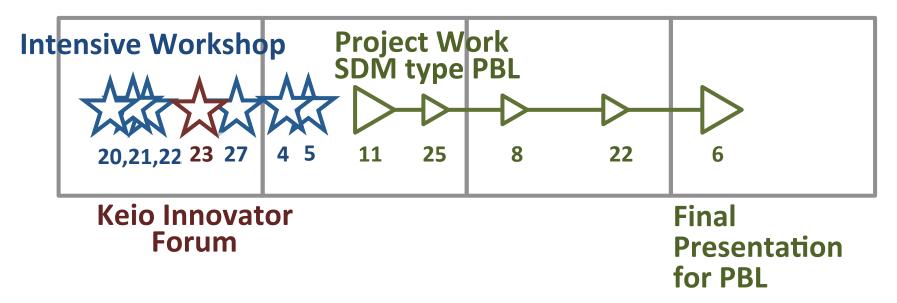
Keio EDGE Program Day 7 Design Process Exercise Basic Framework and Suggested Approaches



Keio EDGE Program Day 7 Design Process Exercise Basic Framework and Suggested Approaches



Program Schedule 2015 September October November December



7-day Intensive Workshop is to get you ready with right equipment. Rest is PBL with mentoring and feedback.

You will make several presentations before the final presentation on December 6th.