

Systems Approach we talk about today

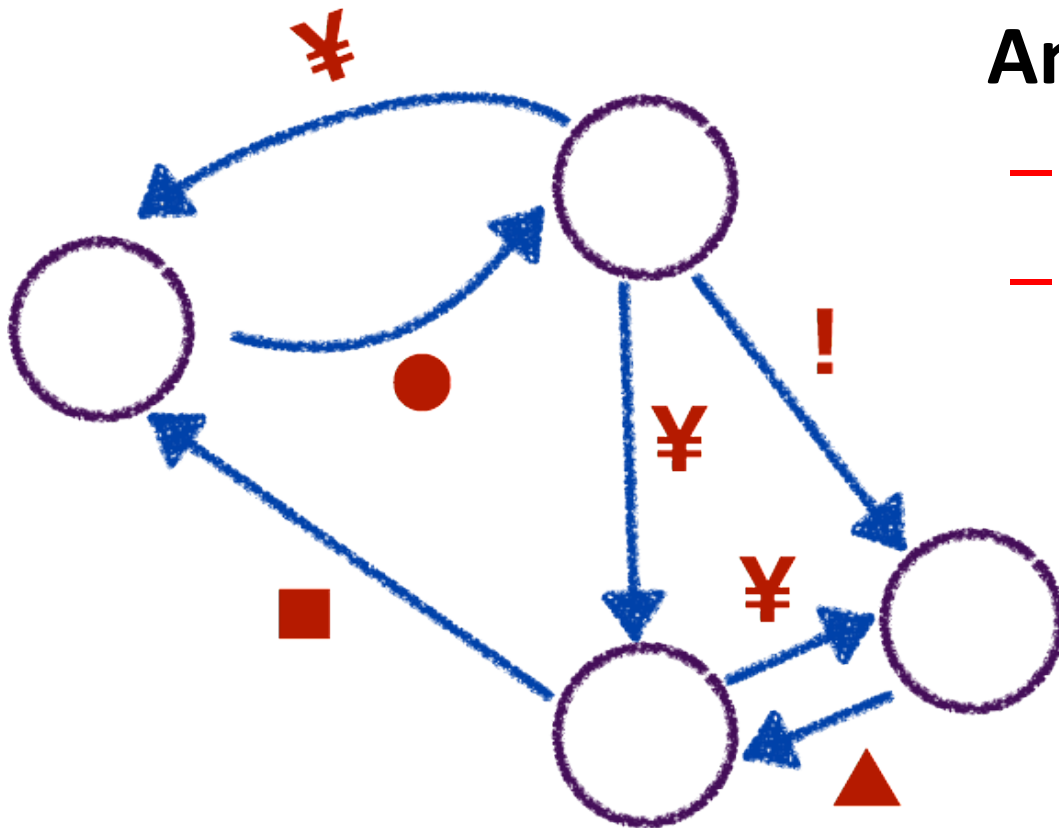
- **Value Graph (upper half)**
 - purpose and alternative viewpoint
 - higher purposes and alternative ideas
- **Causal Loop Diagram**
 - cause-and-effect viewpoint
 - causes and effects
- **Customer Value Chain Analysis (CVCA)**
 - value chain viewpoint
 - stakeholders and their values
- **Function and Physical Architecture**
 - function and physical viewpoints
 - functions and physical structures

Customer Value Chain Analysis

顧客価値連鎖分析

- **Customer Value Chain Analysis (CVCA)**

- value chain viewpoint
- stakeholders and their values



CVCA can clarify;

Who are the stakeholders?

How does value flow?

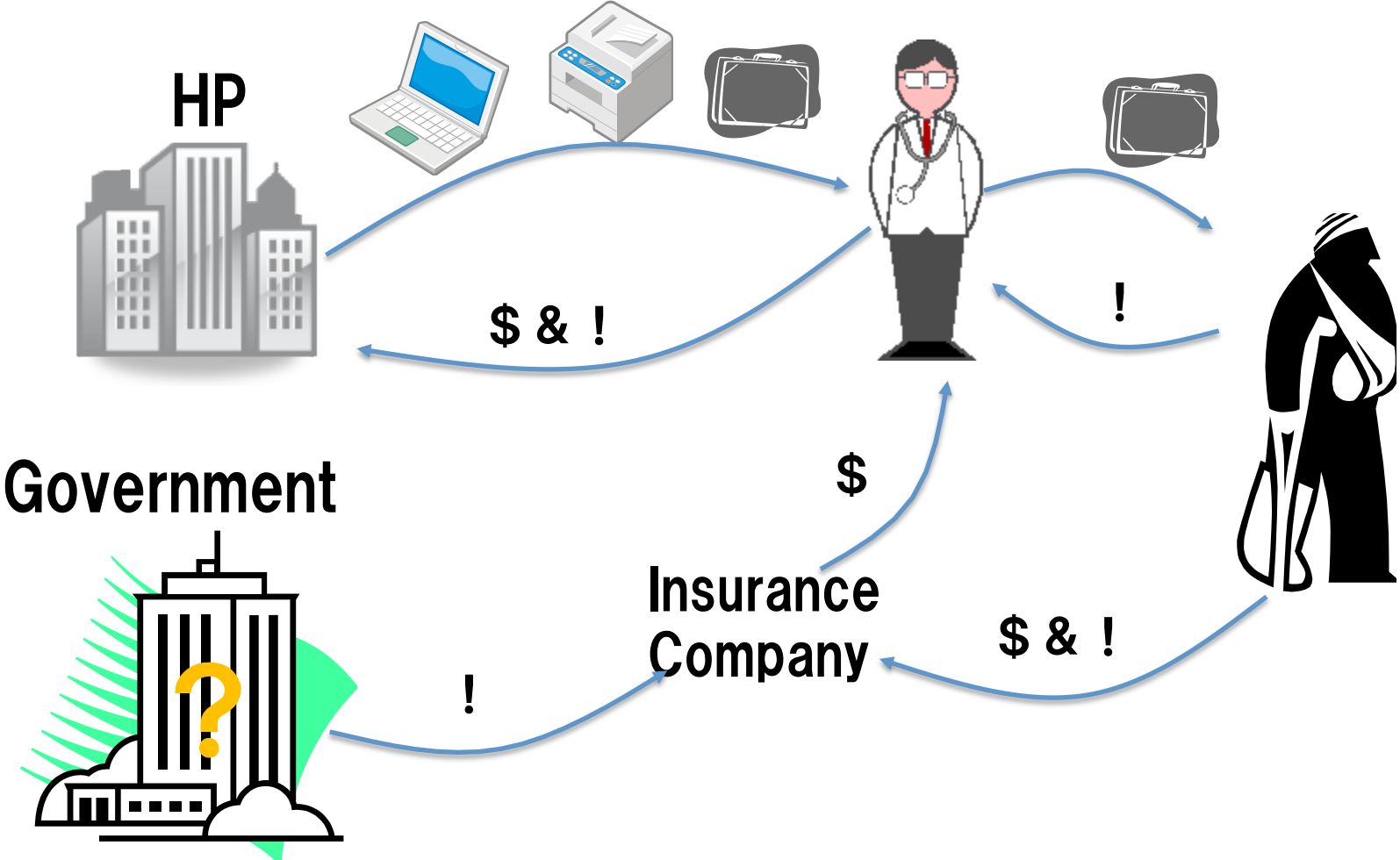
How does material or energy flow?

How does information flow?

Who are you designing for?

Who are your important customers?

HP : Electrocardiographic Monitor (心電モニタ)



CVCA Steps

1. List Up Stakeholders

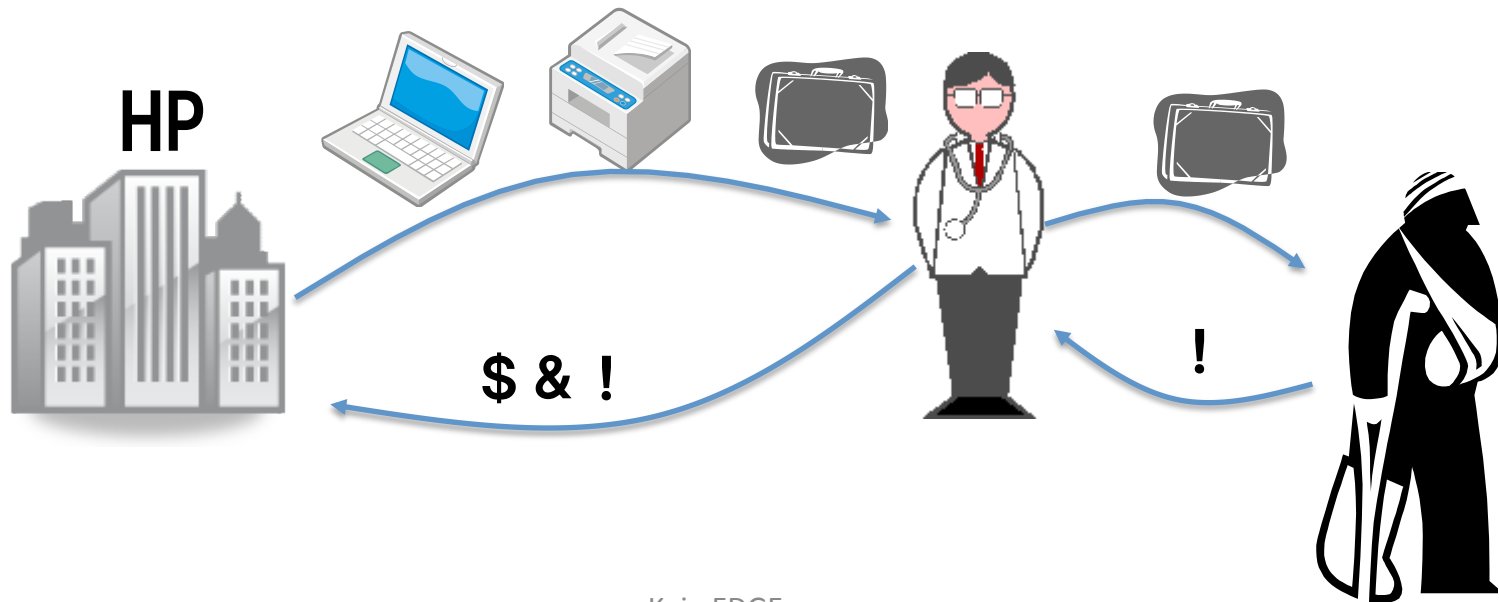
- Customers, Partners, Organization for Standard (ISO), etc.



CVCA Steps

2. Identify value between stakeholders and its flow

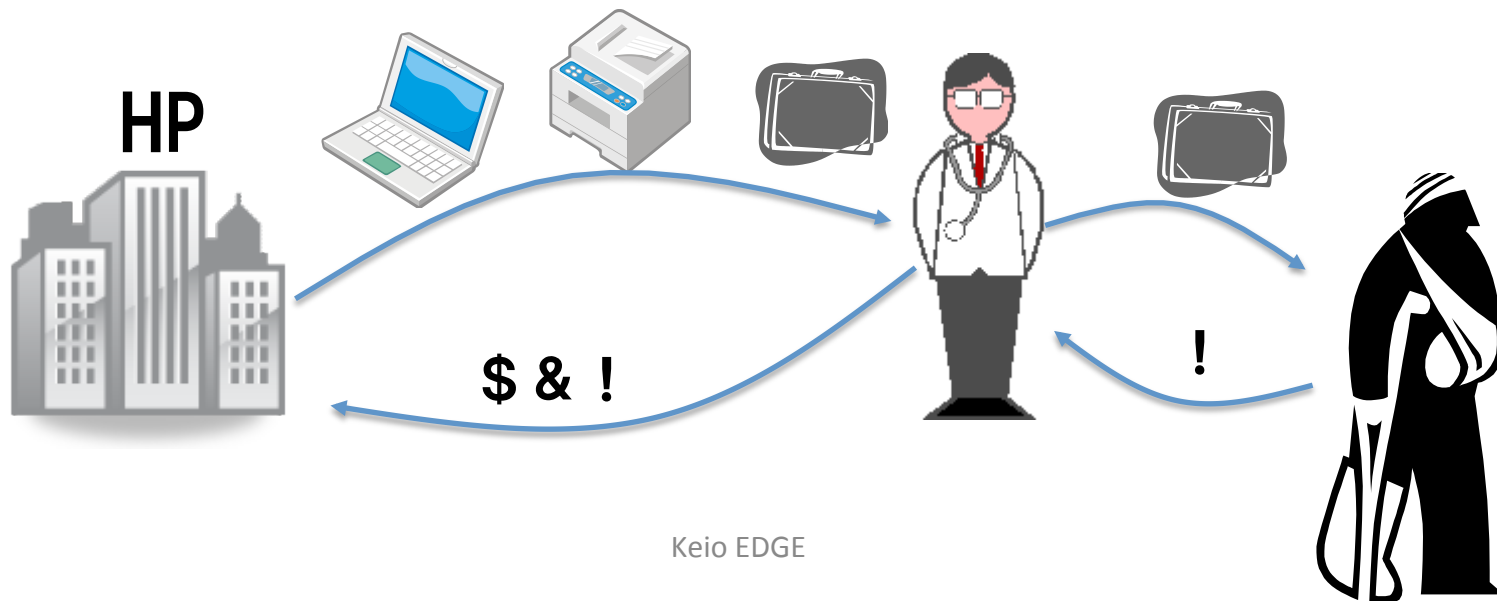
- “\$” for money, capital
- “Icons” for product, service and information
- “!” for claims, regulations



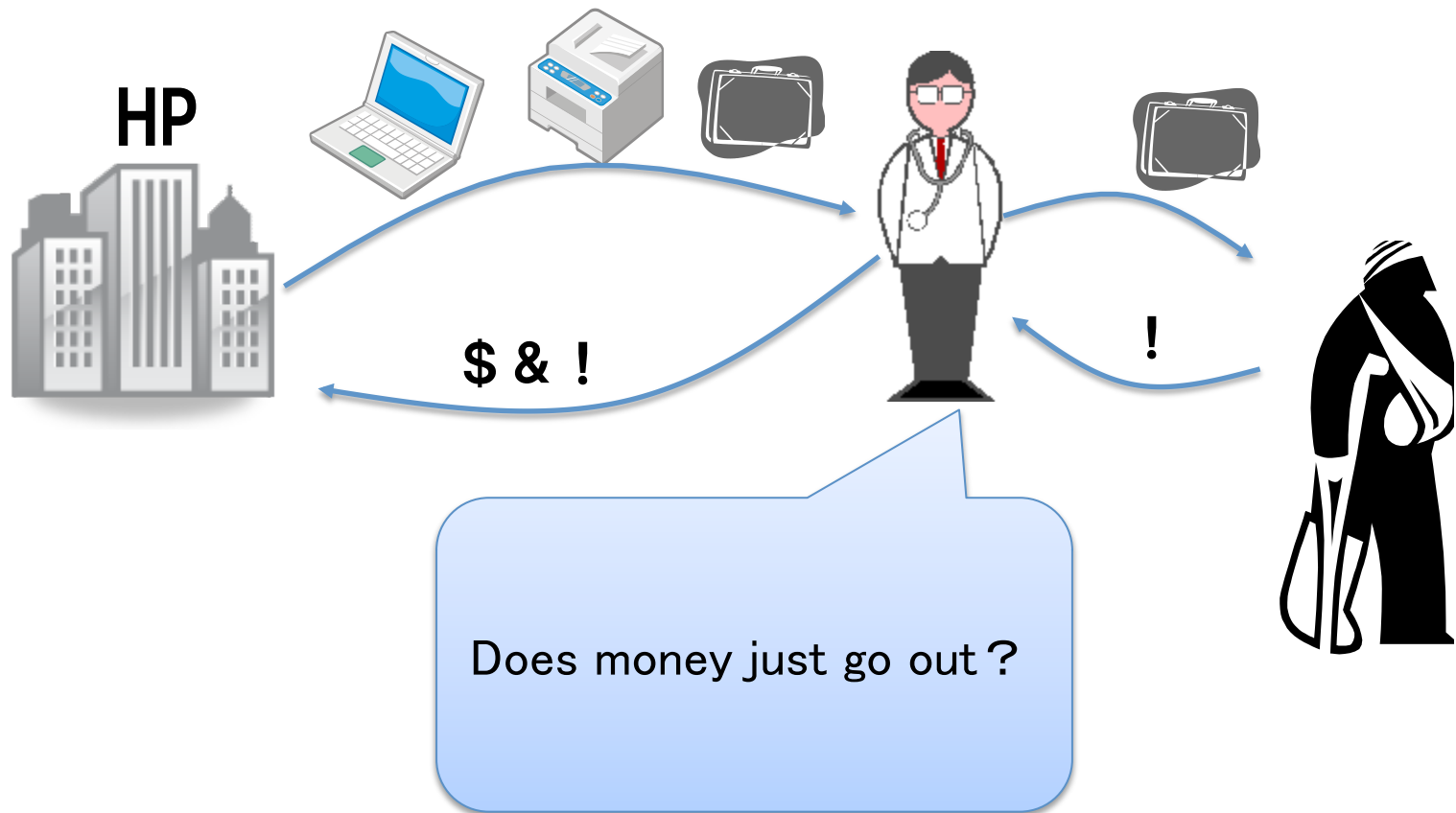
CVCA Steps

3. Perform Analysis

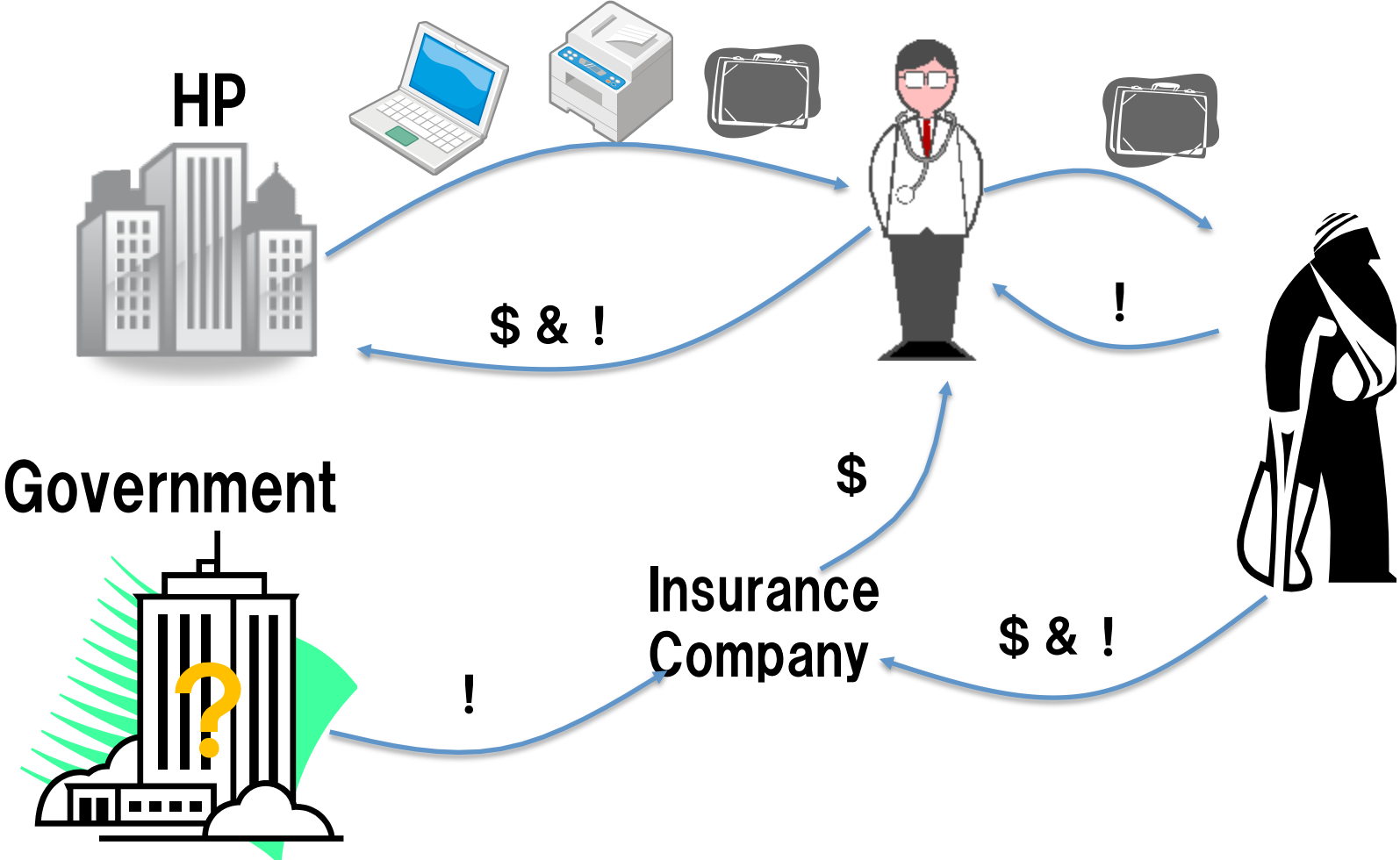
- Who is important customers? : Trace “\$” and “ ! ”
- What is value for stakeholders ? : Change from input to output
- Identify negative effects (like claims)



HP : Electrocardiographic Monitor (心電モニタ)

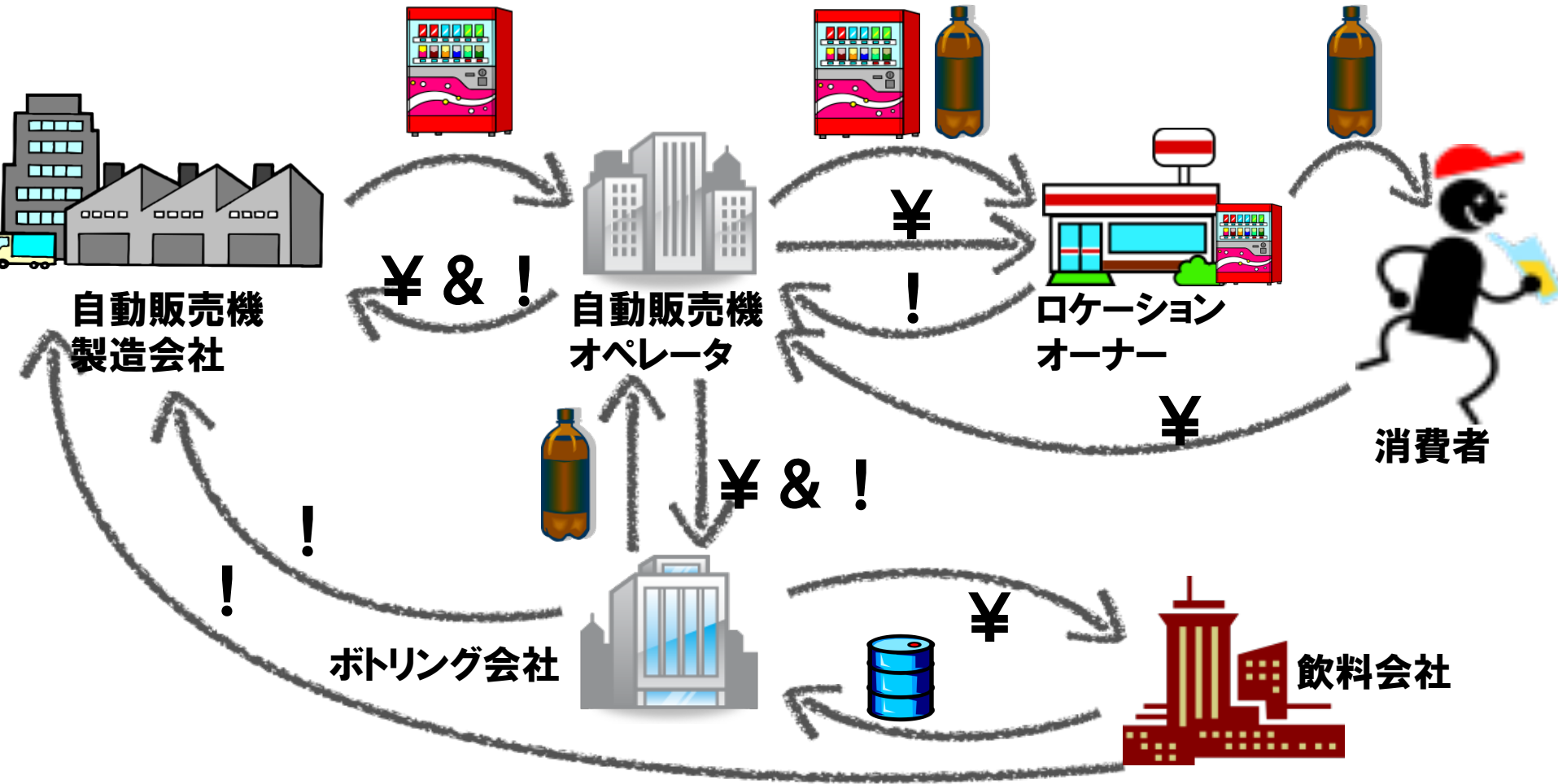


HP : Electrocardiographic Monitor (心電モニタ)



Example

Vending Machine

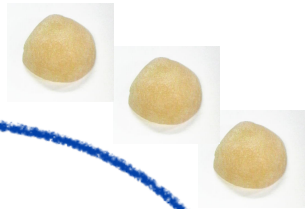


Example

Momotaro Folktale CVCA



おじいさん
おばあさん



桃太郎



改心



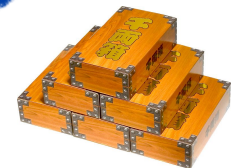
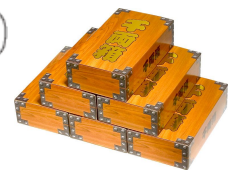
鬼



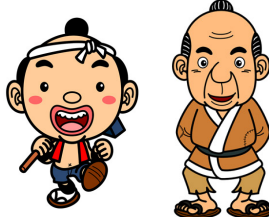
協力



猿・雉・犬



村人



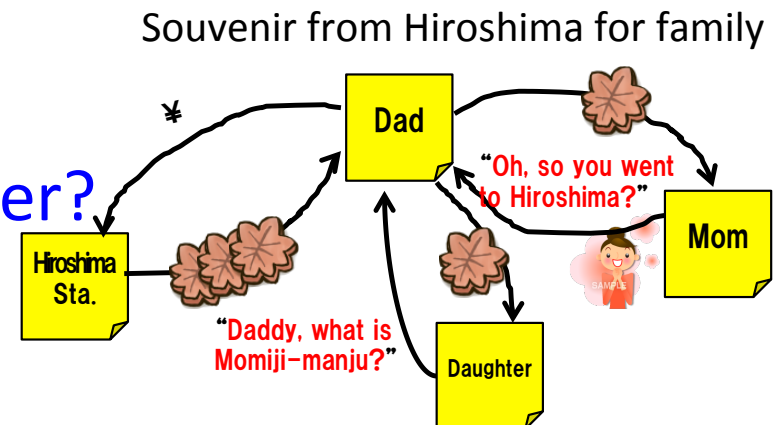
CVCA Exercise 1

- **Discuss and create CVCA** of one of your concepts or ideas. (*If you don't have one than you can do "wearable life log device".)
- Consider the **values that are not only money and goods/services.**

Who are main stakeholders?

What are values for the stakeholder?

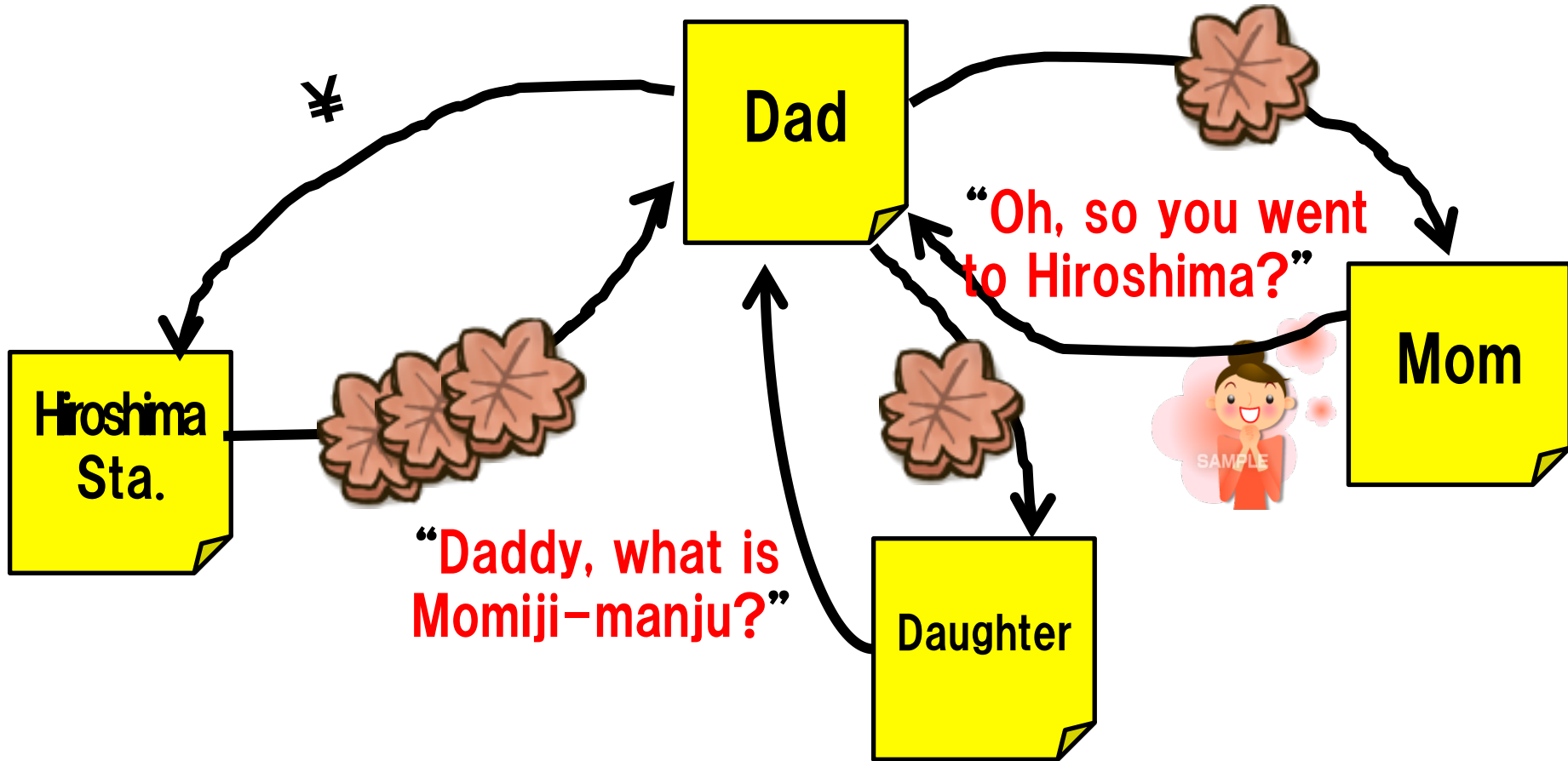
How is the value chained?



Visualize value chain so you can discuss, modify, and make it as a part of innovative solution!

Example

Souvenir from Hiroshima for family

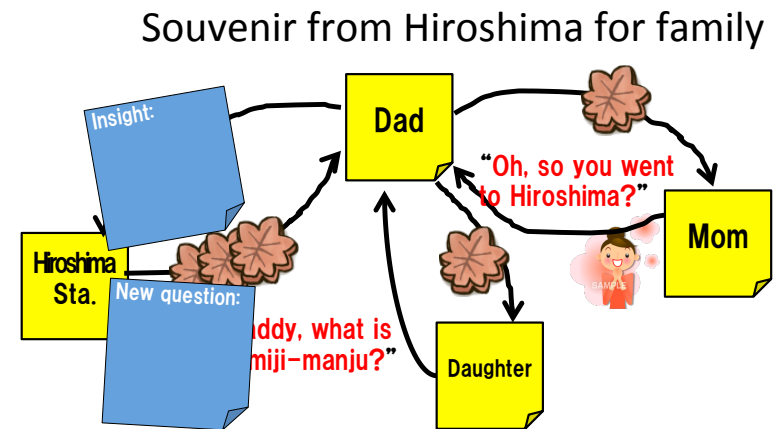


Exercise

CVCA Exercise 2

- Discuss about your CVCA session. Both process and output.
- Jot down **interesting finding** and **new questions found** during the discussion. They may be important insights.

- All value flows okay?
- Any chance for new value?
- Any chance for less or more stakeholders?



Visualize value chain so you can discuss, modify, and make it as a part of innovative solution!