Analysis on Factors Affecting Consumer Evaluation of Life Cycle Information of Food Products



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Research interest

Quantitative ecolabel

- Can provide reliable information to consumer
- Appeal to green consumers



Uncertain how effect to ordinal consumers

- Does label promote purchase by ordinal consumers?
- How the label effect consumers' perception?
- Does label have effect to ensure product quality (except environmental performance)?



Objectives

 To measure consumers' willingness to pay (WTP) for quantitative eco-label on agricultural products

Conjoint Analysis

 Analyze socio-psychological relationship between consumers' perception and WTP

Path Analysis

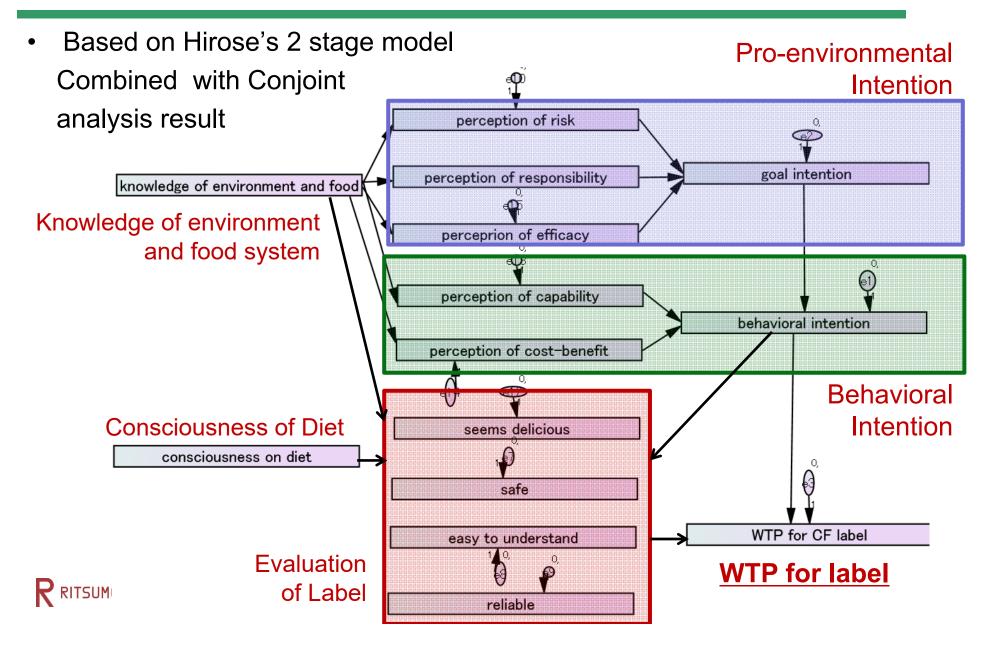








Model



Survey

- Internet questionnaire to 500 Japanese consumers
 - Limited to person who usually prepare their own meal
- Questionnaire

Basic Information	Age, Gender, Income, Living Area, Occupation, •••
Perception on environment	Risk, Responsibility, Target, •••
Consciousness on diet	efforts to better diet (eat vegetables, eat fruits, save calories, •••)
Knowledge of environment and food system	Carbon Offset, Carbon footprint, Organic agriculture, fare trade, •••
Evaluation on eco-labels	Reliability, Quality of product, Science, Food safety, Ease to understand



Choice experiments

- > choice experiment for conjoint analysis
- > Rank 16 choices (combination of options)
- > Target products: Tomatoes (3pcs.)

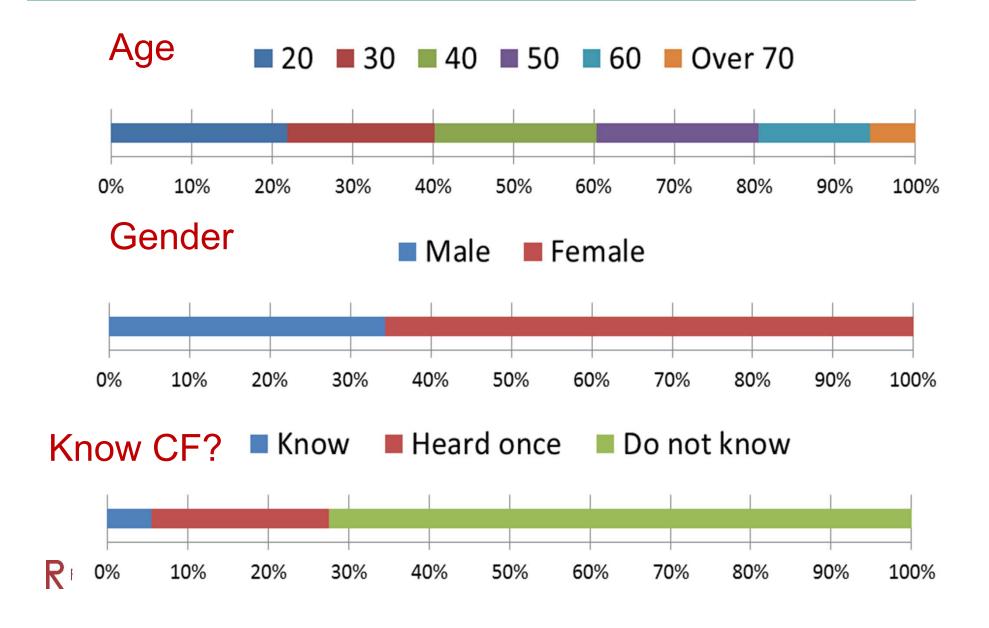


Options

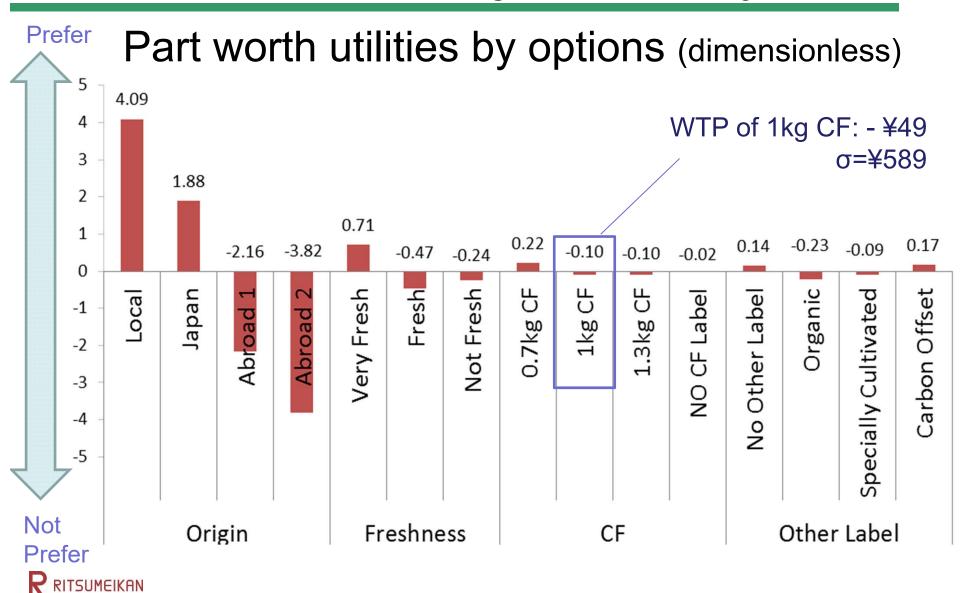
Price	¥250, ¥300, ¥350, ¥400
Freshness	Very Fresh, Fresh, Not Fresh
Origin	Local, Japan, Abroad (China, Korea)
CF label	None, 0.7kg, 1kg, 1.3kg,
Other label	None, Carbon Offset, Organic, Specially Cultivated (Reduce chemical fertilizer)



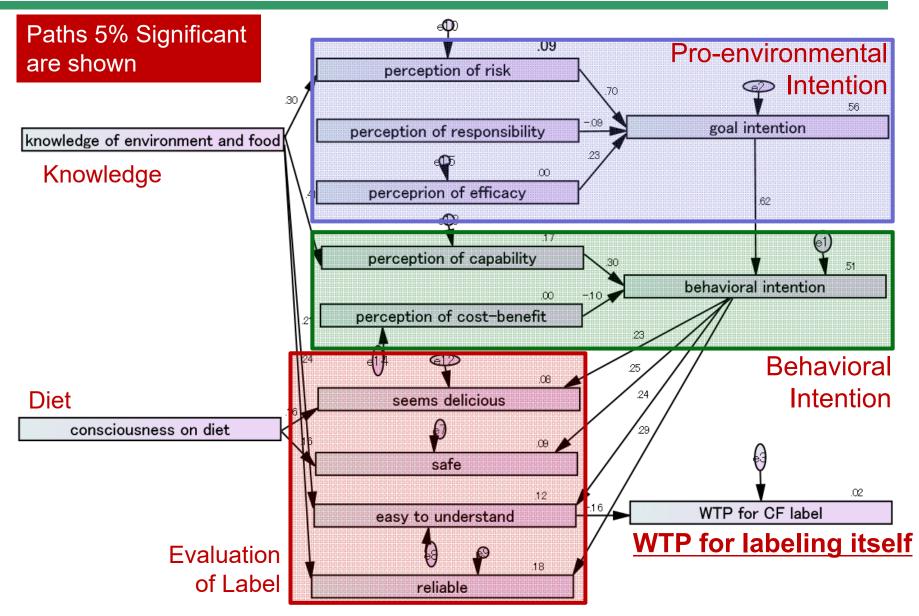
Characteristics of Respondents



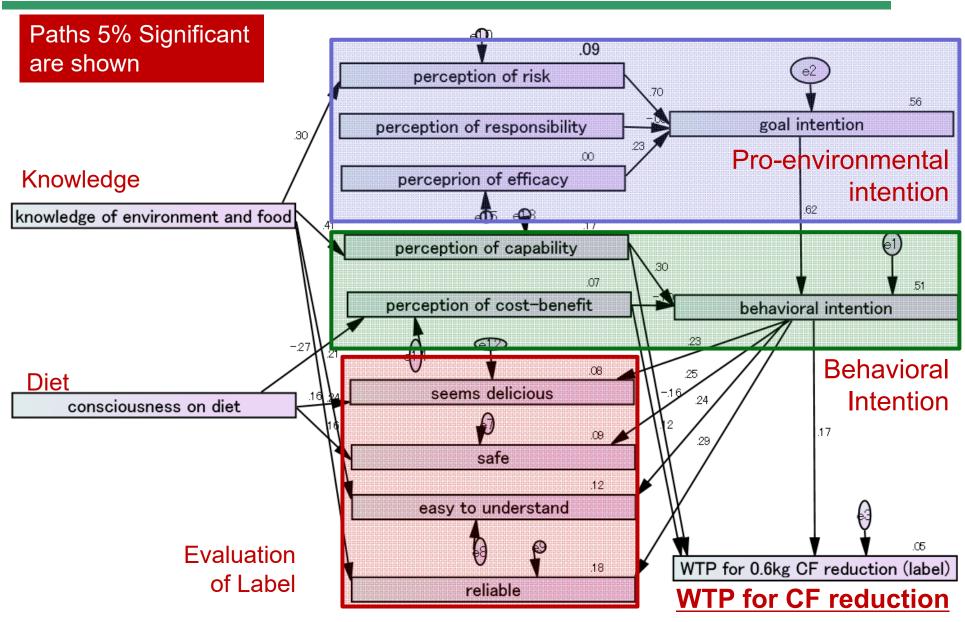
Result of Conjoint Analysis



Result of Path Analysis (1/2)



Result of Path Analysis (2/2)



Conclusion

CF Labeling

Intention to pro-environmental behavior indirectly effects to WTP through evaluation of label

CF reduction

Intention to pro-environmental behavior directly effects to WTP



Questions?

