

# COLD CHAIN PACKAGING RISK MANAGEMENT

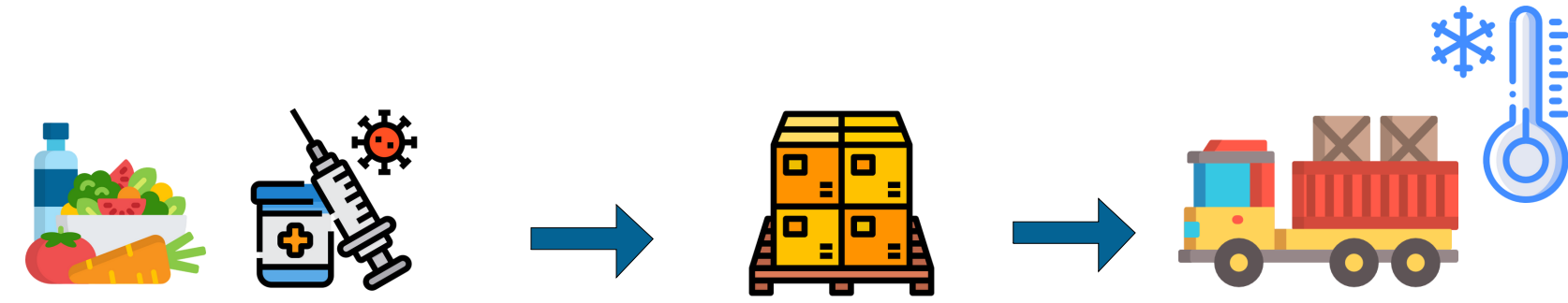
## Introduction

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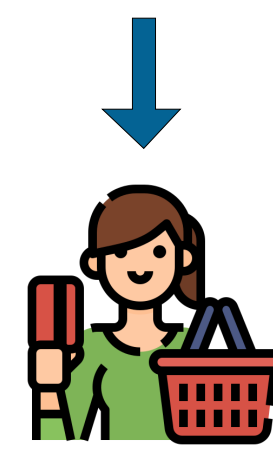
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## Findings

### What's Cold chain packaging ?




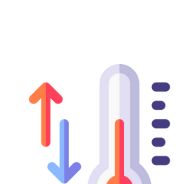
It's an **overall cold chain shipping solution.**



### What's risk management for ?

To **identify, assess, mitigate and monitor the unexpected disruptions.**  
(Ho et al., 2015).

### Why risk management on cold chain packaging?

 **Insufficient Pacakging**  **Temperature Disruptions**

The main causes of cold chain product **quality deterioration.**

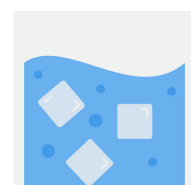
## Aims

To propose an integrated method to **evaluate and reduce risks** from **cold chain packaging management.**

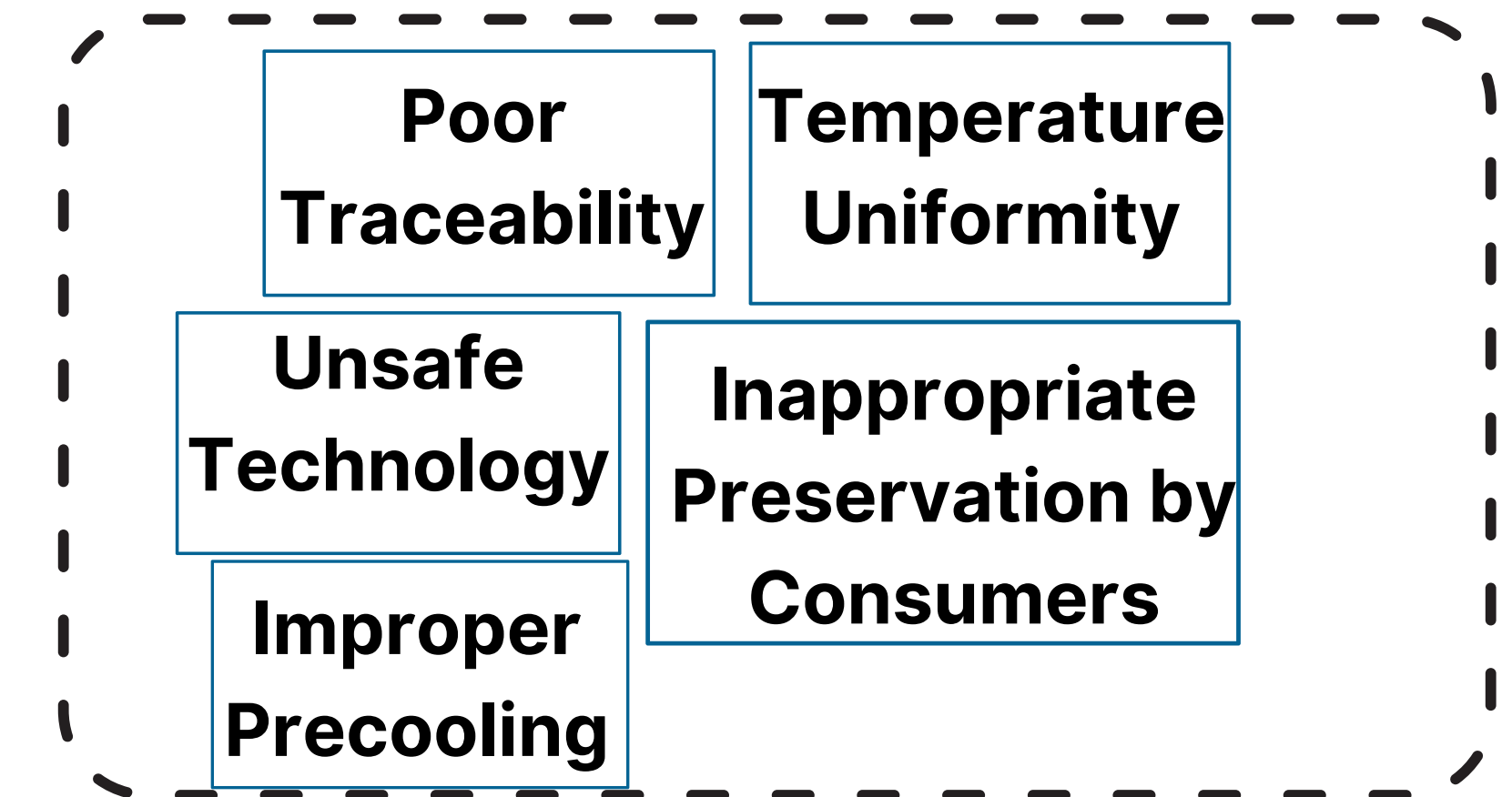
## Methodologies

- Descriptive research design
- Existing risk management on cold chain packaging is reviewed.
- Both qualitative and quantitative methods will be used

## Findings

 **Phase change materials** are found to be good candidates for packaging due to their good thermal properties.

### Risk Identified



### Risk Mitigations

**Smart packaging**   
Intelligent packaging  
Active packaging  
Interactive packaging  
Ergonomic packaging  
↓  
 **Increase cold chain performance**  
 **Increase customer satisfaction**

## References

1. Ho, W et al. (2015) Supply chain risk management: A literature review. *International Journal of Production Research*, 53(16), pp.1-3
2. Martins, R and Romani, V.(2019) Innovative packaging that saves food. In: Charis, G. (eds.) *Save food*. 1st ed. London: pp. 171-173