



HERAKLION 2019
7th International Conference on Sustainable Solid Waste Management
Crete Island, Greece, 26-29 June 2019

**Understanding the material recovery by material flows in food
retailers:
Jumbo supermarket, a Chilean case linking consumption to
materials**

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CONICYT/FONDAP/15130015



CRHIAM
CENTRO DE RECURSOS HIDRICOS PARA LA AGRICULTURA Y LA MINERIA

Food Retailers can contribute to food
security by reducing in the cost

of living providing access and availability to high

diversity of food
a right spatial distribution is achieved
throughout the country

Food Retailers have the big
challenge to fight

Food

Losses

Food

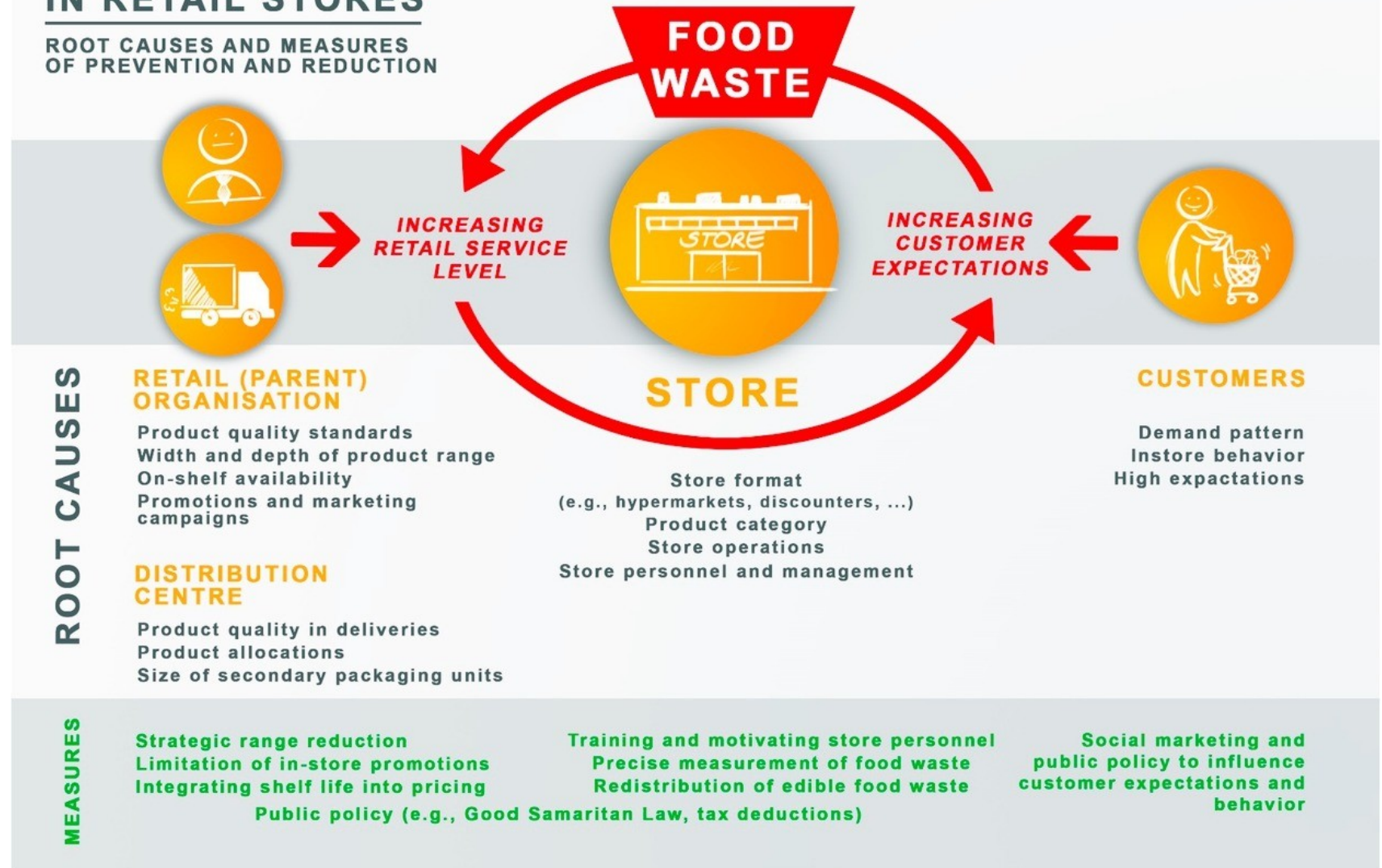
Waste

Achieve goals of Extended Producer
Responsibility (EPR)

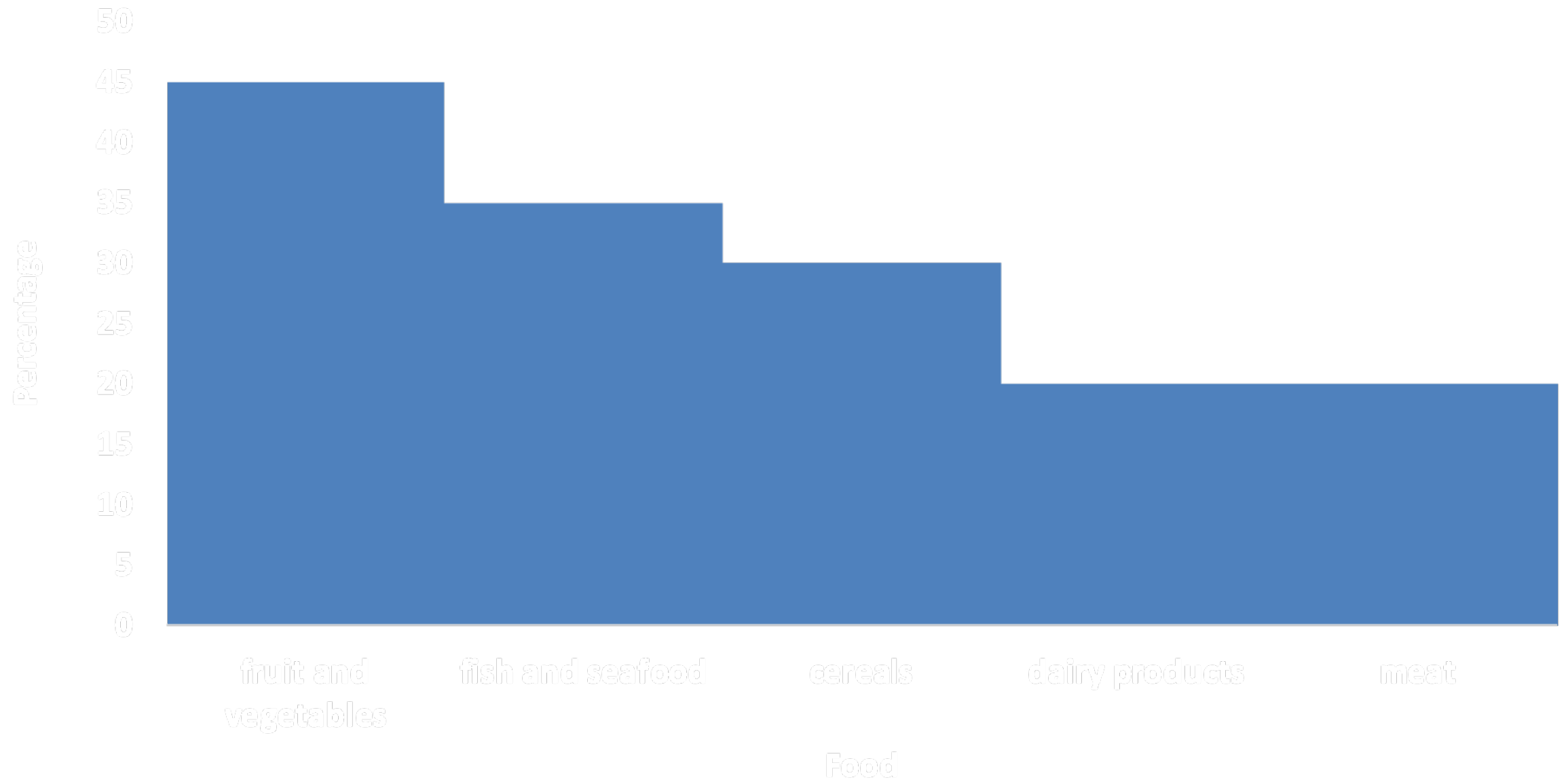
Achieve a Sustainable Waste
Management

FOOD WASTE IN RETAIL STORES

ROOT CAUSES AND MEASURES
OF PREVENTION AND REDUCTION

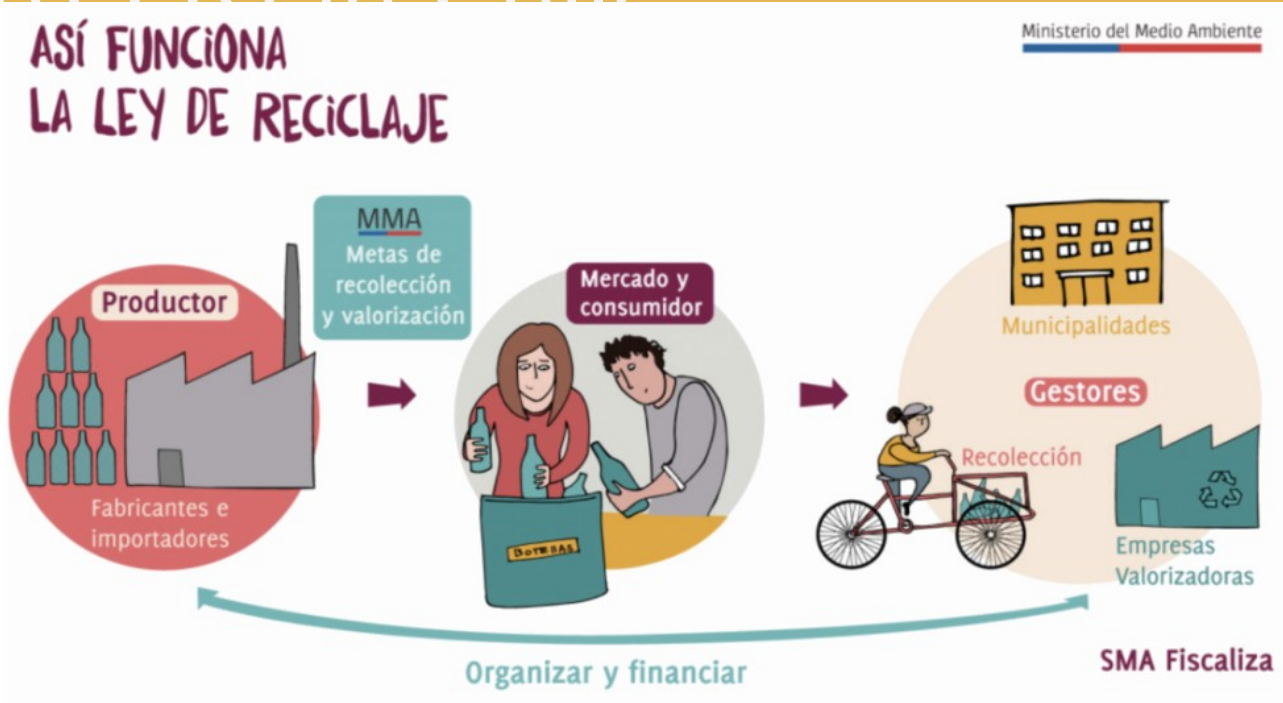


Food Waste



Extended Producer Responsibility (EPR) in Chile

ASÍ FUNCIONA LA LEY DE RECICLAJE



¿CUÁLES SON LOS PRODUCTOS PRIORITARIOS EN CHILE?



Our aim was assess the main materials discharged that can be recovered by material flows analysis linking production (material's packaging) and

CENCO's GROUP



CENCOSUD SUSTAINABILITY STRATEGY

DIMENSION



STRATEGIC INITIATIVES

Climate
Change
Management

Sustainable
Offer

Social
Development

Care of Resources

Waste Reduction

Environmental Culture

Responsible Marketing & Advanced Analytics

Experience & Relation

Health & Wellness

Life Cycle & Traceability

Suppliers Development

Community Relations

Financial Market

• “Nada sobra” Program

• Healthy Cencosud
• Transversal Traceability

• Sustainable Practices Certification

Wastes produced by packaging

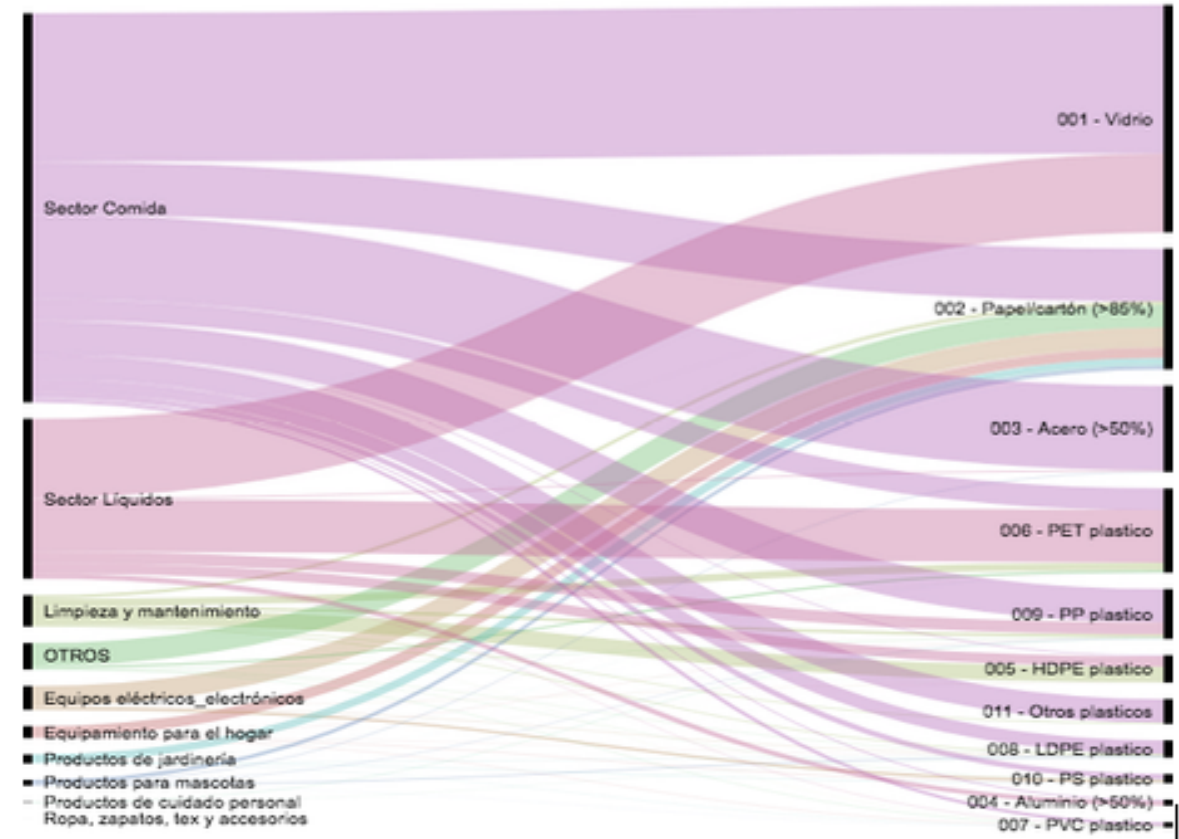


Material	Jumbo & Santa Isabel (Ton)
Glass	1,782 (31%)
Paper & Cardboard	1,068 (19%)
Metal	859 (15%)
PET	706 (12%)

Balance of Masses by Consumption

Materia prima Jiribó & Santa Isabel
(Ton)

Glass	1,782 (31%)
Paper & Cardboard	1,068 (19%)
Metal	859 (15%)
PET	706 (12%)



Discussi on



The materials discharged that can be recovered are strongly linked to consumption driven by income (food budget).

Indeed, the consumption is linked to cooking behaviour and customs.

The main materials are related to “Food & Beverages” category.

Against of common sense, the most important materials to be recovered are glass and paper & cardboard meanwhile plastics are below of aluminium and metals.

Conclusi on



“Food” category is a big classification, the contribution to wastes is reduced just few products.

These food products are related to high demand according to cooking uses and unitarian packaging e.g. flour, cooking oil, pasta, sugar; etc. and linked to budget allocated to dairy cooking uses.

Finally, the strategy to reduce food wasted and wastes (packaging) needs to be focused on highly demanded products linked to cooking behaviour. The analysis of composition of packaging will be key to determinate and forecasting how much materials food retailers can recover as well as which containers and wrapping they need innovate.

This result shows the relevance of composition and weigh of packaging of every food product as well as the feasibility to be recycled and recovered as well.



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Recuperación de Energía y Materiales
Chile



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