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Reusable Packaging System Design Standards

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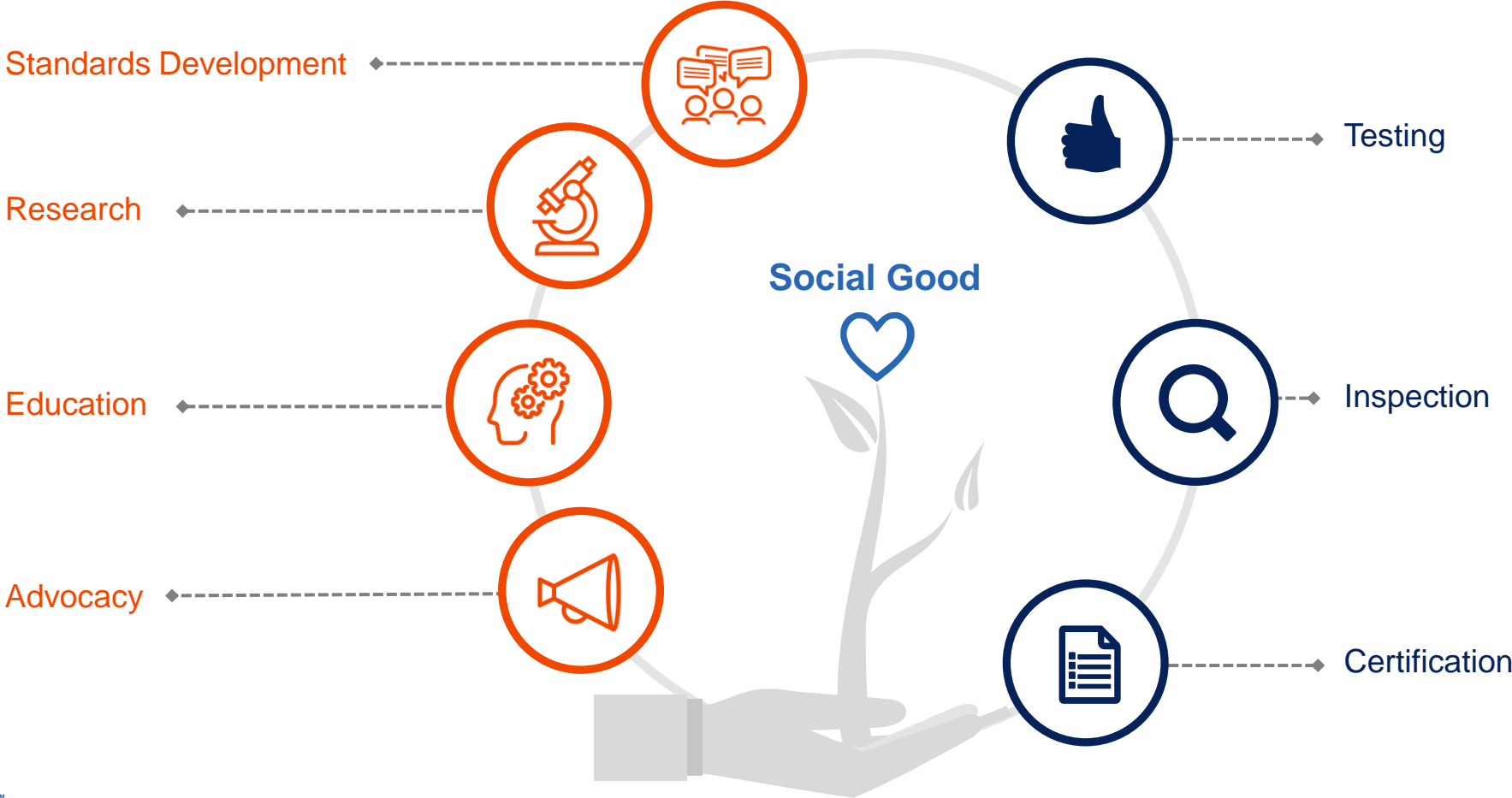
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CSA Group At-a-Glance

Holding the future to a higher standard

Standards Development Organization

Commercial Subsidiaries



Member Driven. Globally Relevant.

Improving health, safety, the environment and trade in Canada and beyond.

12

Areas of focus

+10,000

Dedicated members

+3,000

Standards

+1,000

Committees

Overview of CSA Circularity Work



Canadian adoptions of three ISO 59000 series standards (Publication: End of 2024)



National Standard of Canada CSA R117: Plastic Recycling: Definitions, Measuring, Reporting (Publication: November 2024)




Climate-Smart Circularity: Guiding Decision-Making Through Data-Informed Standard Protocols Research Report (Publication: End of 2024)



Reuse System Design Series of Seven Standards (2025 and beyond)

Reusable Packaging System Design Standards

 *Currently under development*



What is a Reuse System?

- **Reuse System:** system for reusable containers that provides collection, washing, and redistribution of the containers

Scope: Returnable Primary Packaging

- Primary packaging is packaging that comes into direct contact with the product (e.g. to-go boxes, cups, bags, pouches).
- These standards can also be applied to some food ware items that are not traditionally referred to as “packaging”, but are part of a reuse system, such as food utensils and plates.

Reuse is emerging globally, and standards will enable scale, efficiency, equity, and profitability

Purpose

- **Why Standardize?**
 - Reusable packaging is the most promising solution to the plastic waste crisis, with the ability to reduce both resource extraction and pollution. Standards are important to ensure these environmental benefits, help to reduce costs, and align investment around a common vision and system.
 - To transform disconnected reuse systems into an interoperable system that is more efficient, convenient, and affordable and can scale
 - Core requirements for aligning reuse systems with shared of infrastructure for collection, washing and transport
- **Standards Users:**
 - Reuse system stakeholders (system operators, washing facilities, container manufacturers, brand holders, retailers, and more)



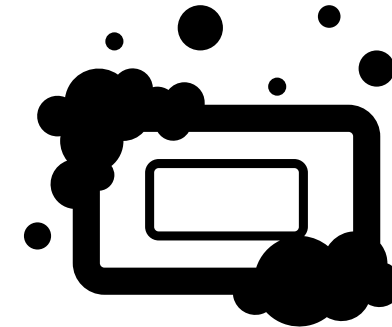
Reusable packaging system design standard: Container washing, inspection, and packing for distribution

Washing and Safe Handling

Scope: This document specifies requirements and recommendations for **washing containers** in a reusable packaging system, as well as **inspecting them** after washing and **packing them** to be redistributed.

Includes:

- Differing types of washing
 - machinery
 - hand washing
 - with/without hot water
- Sanitization
- Safe handling for distribution



Reusable packaging system design standard: Container design and performance

Container Design and Performance

Scope: This document specifies **design requirements** and recommendations for containers in a reusable packaging system.

Includes:

- Requirements for durability
- Requirements for materials
- Requirements for recyclability



60 Day Public Review: <https://publicreview.csa.ca/Home/Category/005>

Reusable packaging system design standard: Labelling

Labelling

Scope:

- Specifies **labeling requirements** that will make it easy for consumers and companies to identify containers and collection points that are part of a reuse system.
- Provides requirements for labeling containers, collection points, and signage in a reuse system.
- Exploring reuse symbol

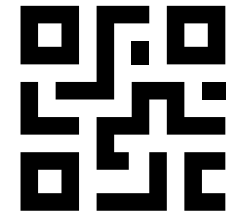


Reusable packaging system design standard: Digital

Digital

Scope:

- Specifies minimum requirements for the **digital components** of reusable packaging systems.
- Sets rules for incorporating digital data carriers on both containers and collection points
- Establishes standardized data elements that identify the packaging and its owner
- Establishes a shared digital language for reading and editing data



Next Steps

- Canadian and US Committees continue to work on the 4 active standards
- 60-Day Public Review of Container Design and Performance (Closes January 10, 2025)
 - English:
<https://publicreview.csa.ca/Home/Category/005>
 - French:
<https://publicreview.csa.ca/Home/Details/5479>
- Next standard launch: System Operator and Performance





Thank you!