

Summary Document

Measuring Reuse – Developing a standardized approach for reuse measurement and reporting

Consumers Beyond Waste

An initiative of the Future of Consumption Platform, World Economic Forum



Measuring Reuse

**DEVELOPING A STANDARDIZED
APPROACH FOR REUSE
MEASUREMENT AND REPORTING**

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Executive Summary

Introduction, Objectives, & Document Overview

- The proliferation of plastic waste is harming our planet, people, and economies. Half of global plastic production is for single-use applications and only 14% of plastic packaging is collected for recycling (with an effective recycling rate of approximately 2% globally)¹. We cannot rely upon recycling alone to solve the plastic waste crisis, and new solutions are needed.
- The circular economy is increasingly at the center stage of global corporate sustainability agendas, with reuse playing a key role – reusable packaging, designed to be used several times, is required to help reduce total virgin material consumption, emissions, and waste generation by keeping resources in circulation.
- The Consumers Beyond Waste (CBW) initiative has been playing a catalytic role in systemic efforts to eliminate plastic waste by advancing a shift towards reusable models of consumption. The initiative is now focused on building a **standardized measurement and reporting framework with guidelines** for businesses to measure and track progress towards reusable models.
- The Consumers Beyond Waste initiative has continued **driving the effort to advance the reuse agenda globally by establishing and facilitating discussions with a multi-stakeholder coalition of public, private, and civil society stakeholders**, including but not limited to: Amcor, Coca-Cola, Nestlé, PepsiCo, Unilever, Walmart, as well as the Ellen MacArthur Foundation (EMF), Greenpeace, and the World Wildlife Fund (WWF).
- This effort **defines success as the evaluation and prioritization of metrics to effectively measure reuse, proven through testing in 2023, and ultimately incorporated into broader packaging disclosures**. In addition, the working group will engage in further discussions to decide whether to formally recommend the prioritized reuse metrics across broader ESG and climate disclosure mechanisms in the future. Doing so requires transparency, alignment, and collaboration across the value chain, emphasizing the **importance of having both leading CPG and retailer stakeholders working together as part of this coalition**.
- This document is **targeted at corporate stakeholders** (committed to exploring, enabling, and testing new reuse models), **at policymakers and standard setters** (seeking to better understand how reuse should be measured), **and at a broader ecosystem of actors** (including corporate players, NGOs, reuse solution providers, and investors).
- This summary document provides stakeholders with the following: 1) a **framework for the standardization of reuse measurement and reporting**, 2) an overview of the evaluation conducted to prioritize reuse metrics, and **an initial recommendation of two metrics for testing in 2023, and 3) an overview of next steps and path forward**.
- Consumers Beyond Waste and its working group acknowledge there are multiple reuse “unknowns” and dimensions to understand further. This document should be considered a “version 1” – a starting point for the reuse community to test, iterate, and build upon. **It is not a document with final recommendations by CBW or its working group**.

Reuse Definition & Scope

- This effort defines reuse as the operation by which **packaging, either designed to be reused or as part of a broader reuse system, is refilled or reused for the same purpose for which it was conceived**, with or without the support of auxiliary products (e.g., products used to support the refilling/loading of reusable packaging). The agreed-upon definition is informed by ISO’s reuse definition, and tailored to this particular effort (reflecting extensive iterations and feedback from the CBW working group).
- The scope of this effort is **focused only on consumer goods products, plastic packaging**, and primary packaging (packaging directly in contact with the product). Future efforts may include analysis into other sectors and packaging types.

Reuse Measurement

- Building on work done to-date by core working group stakeholders like EMF, WWF, and Greenpeace, the CBW **initiative initially evaluated a longlist of fifteen reuse metrics**. This longlist of metrics measured reuse by weight, packaging units, share of business (volume or revenue), efficiency (by number of loops), and availability (by progress to track reuse – eg, number of tests).
- The longlist of metrics was initially **prioritized into a shortlist of five reuse metrics** following three criteria: 1. Range (metrics accounting for the range of ways to measure reuse – eg, weight vs efficiency), 2. Applicability (metrics that effectively measure reuse across industries, products, and reuse models), and 3) Stakeholder Interviews (metrics recurrently identified by stakeholders as high potential metrics worth evaluating and prioritizing further).
- The shortlist of five metrics was then **analyzed using a Benefit vs. Complexity framework**. Across each metric, working group stakeholders analyzed Benefit (the metric’s ability to measure reuse accurately and effectively) and Complexity (capabilities, data, and insights required to measure metric, and expected complexity to test metrics).

Recommendations & Rationale

- The Consumers Beyond Waste initiative and its core multi-stakeholder working group **supports the following outcomes and collective actions**:
 1. Prioritization of two reuse metrics: *reuse efficiency* (measuring reuse by the total number of loops a packaging unit achieves over the course of its lifetime) and *Share of volume or product units* (measuring reuse by volume: liters of beverage, kilos of food, or kilos of personal care/home care products designed or developed to be reused – eg, volume that is reusable).
 2. The core community of consumer goods and retail corporate stakeholders will test one or both prioritized reused metrics during 2023, working with one another to share lessons learned and challenges encountered. This testing period should be treated as an opportunity to test and iterate reuse metrics as needed.

2023 Metrics Testing

- The Consumers Beyond Waste initiative and its core working group have created a comprehensive strategy for corporate stakeholders to begin testing the prioritized reuse metrics in 2023. In doing so, the coalition was deliberately pragmatic in solving for “Version 1” rather than a finalized version of reuse measurement that is ready for a recommendation to government and standard-setting organizations. Solving for “Version 1” entails that the 2023 testing phase should be regarded as a valuable opportunity for collective learning to subsequently inform the end state measurement.
- In defining the holistic testing strategy, CBW and its multistakeholder coalition focused on four key dimensions: 1. Definition & Inclusions/Exclusions; 2. Reuse Parameters & Scope; 3. Metrics Calculation; and 4. Reporting Structure. These components together have served to build a reuse metrics playbook, which will support companies during the testing phase. Notably, major consumer goods companies and retailers in the community have expressed their support for or agreed to start testing the metrics against their respective reuse and refill pilots or activities globally in 2023.

Path Forward

- The Consumers Beyond Waste initiative and its core multi-stakeholder working group aligned on the following path forward, centered around three phases:
 1. **Phase 1 – Complete**: CBW and its core multi-stakeholder working group have engaged in a series of working sessions to delve more deeply into key dimensions required to test reuse metrics in 2023 (e.g., test structure, reporting requirements, capabilities/tools, and collaboration models). Based on strategic input from the working sessions, CBW has

developed a testing playbook to support corporate stakeholders in testing reuse metrics and enabling other community stakeholders, like NGOs, to provide feedback on tests.

2. **Phase 2:** Corporate stakeholders will test one or both prioritized reuse metrics to test, learn, and iterate. CBW will provide input and support to consumer goods and retail stakeholders during this phase. This phase will be an opportunity share lessons learned and challenges encountered between the core members of the working group. In addition, this phase may also present the opportunity to start updating prioritized metrics into existing voluntary reporting frameworks like EMF's Global Commitment Progress Report.
3. **Phase 3:** Assuming positive test results, the working group will start to engage in further discussions to decide whether to formally recommend prioritized reuse metrics to inform government policies, regulations, and standards (e.g., integrating prioritized reuse metrics into broader ESG and climate disclosure mechanisms).

I. Introduction

The Plastic Waste Crisis

The proliferation of plastic waste is harming our planet, people, and economies. Half of global plastic production is for single-use applications and only 14% of plastic packaging is collected for recycling (with an effective recycling rate of approximately 2% globally)¹. We cannot rely upon recycling alone to solve the plastic waste crisis and new solutions are needed. There is an urgent need to drive a systemic shift towards reuse consumption models as an integral part of the reduce-reuse-recycle agenda. Whilst the transition to reusable packaging is still in its early stages, it is quickly gaining traction globally as an alternative to single-use models. Initial data indicates that by reusing just 10% of plastic products, the equivalent of 50% of annual plastic ocean waste can be prevented².

However, on our current trajectory it is anticipated that there will be more plastic than fish in the world's oceans by 2050, with an additional eight million tons of plastic waste entering the ocean each year³. Aside from the alarming waste footprint, the production of plastic increases carbon emissions, since it is a by-product of petroleum; by 2050, plastic production is expected to be responsible for up to 13% of the world's total carbon budget (defined as the maximum amount of CO₂ emissions to keep within a certain temperature)⁴. The impact of plastic waste on human health is also becoming clearer, with scientists finding microplastics in human blood for the first time in March 2022⁵.

Shifting away from single use plastics into reusable models of consumption represents a significant opportunity to solve the plastic waste crisis. Reusable packaging, designed to be used several times, is required to help reduce total virgin material consumption, emissions, and waste generation by keeping resources in circulation. Some reports estimate that the lifetime cost of plastic (including managed waste cost, market cost, emissions cost, and ecosystem costs) could be up to ~\$2-4 trillion⁶ – despite required infrastructure investments, shifting to reusable models of consumption is expected to reduce many of the key lifetime plastic cost drivers outlined above.

Consumers Beyond Waste – Ambition & Role

Consumers Beyond Waste is a multistakeholder initiative hosted by the World Economic Forum's Future of Consumption platform in collaboration with Kearney. The initiative engages a coalition of public, private, and civil society stakeholders committed to empowering consumers to, by 2030, access innovative consumption models at scale that offer aspirational, affordable, convenient, and more sustainable alternatives to single-use.

The Consumers Beyond Waste initiative has been playing a catalytic role in systemic efforts to eliminate plastic waste by advancing a shift towards reusable models of consumption. The initiative has amplified efforts of early innovators such as Loop and Algramo, and continues to support breakthrough companies like MIWA and Muuse. In 2021, the initiative established a reuse viability

framework to enable an economically feasible transition to reuse, and also launched [community-authored papers](#) on design, health and safety, and municipal guidelines to facilitate the market adoption of reuse models.

The Consumers Beyond Waste initiative is now focused on building a comprehensive standardization, measurement, and reporting framework with guidelines for businesses to measure and track progress towards reusable models of consumption. Thus far, the community has collectively **focused on evaluating, prioritizing, and recommending a set of reuse metrics for consumer goods and retail core corporate stakeholders to test in 2023**. This summary document provides an overview of progress to-date, initial recommendations on how to measure reuse, and a detailed path forward for the Consumers Beyond Waste community.

II. Document Overview

Purpose and Audience

This summary document serves as a high-level overview of the ongoing reuse standardization, measurement, and reporting effort led by Consumers Beyond Waste and supported by its multi-stakeholder community of public, private, and civil society stakeholders. The document is targeted at:

- **Corporate stakeholders** committed to exploring, enabling and/or testing new reuse models of consumption, particularly within the consumer goods and retail sectors.
- **Policymakers and standard setters** seeking to better understand how reusable models of consumption should be measured (including risks and trade-offs), and what metrics should be incorporated into future legislation and standards.
- **The broader set of ecosystem actors** (including other corporate players, NGOs, reuse solution providers, investors, etc.) interested in understanding thinking to-date on reuse standardization, measurement, and reporting, and in collaborating with the Consumers Beyond Waste working group to accelerate reuse solutions at scale.

This document provides stakeholders with a summary of the following three areas:

- A **framework for** reuse standardization, measurement, and reporting.
- An overview of the analytical evaluation conducted by the Consumers Beyond Waste working group to **prioritize reuse metrics, and an initial recommendation of two metrics for testing in 2023**.
- An overview of **next steps and path forward**.

Format

The present document should be considered as a starting point, an initial foundation upon which the reuse community can build in the months and years ahead, not a document with final recommendations by the Consumers Beyond Waste initiative or its working group.

It is a current snapshot of insights drawn from work conducted to-date by the Consumers Beyond Waste initiative's core working group focused on reuse standardization, measurement, and reporting. This insight report is an aggregation of in-depth stakeholder interviews conducted by the Consumers Beyond Waste initiative with leading public, private, and civil society stakeholders, as well as feedback and recommendations collected during two working sessions hosted during May and June 2022.

Reuse Definition & Scope

- **Reuse Definition:** This effort defines reuse as any packaging originally conceived to be reused, and refilled or reused multiple times over its useful life for the same purpose for which it was originally conceived. For example, a soft drink plastic bottle refilled with water would not count as reuse. Although this definition is consistent with definitions of reuse set forth by core working group

members like the Ellen MacArthur Foundation, it is **working definition, to be updated by CBW and its coalition over the coming months.**

- **Reuse Framework:** This effort follows the reuse framework set forth by the Ellen MacArthur foundation. In this framework, four models of reuse are considered across refill (packaging refilled by user) and return (packaging returned to a business): 1) Refill at Home, 2) Refill on the Go, 3) Return from Home, 4) Return on the Go. All analyses on reuse metrics evaluation and prioritization, including the initial prioritization of reuse metrics, consider the four reuse modalities outlined above. Refer to our [July 2021 Insight Report](#) (p. 14) for further detail.
- **Plastic Waste:** This effort focuses on plastic waste only. All other forms of packaging (eg, glass, paper, others) were excluded from any analysis conducted. Future efforts may include additional forms of packaging.
- **Primary Packaging:** This effort focuses on primary packaging only, defined as the type of packaging directly in contact with the product (e.g., consumer-facing packaging). All secondary and tertiary packaging were excluded from any analysis conducted. Future efforts may include analyses into secondary and tertiary packaging.
- **Consumer Goods Focus:** This effort focused only on consumer goods products. All other sectors were excluded from any analysis conducted. Future efforts may include analyses into other industries and sectors.

III. Reuse Measurement

Stakeholder Interview Summary

The Consumers Beyond Waste initiative team conducted two rounds of extensive 1:1 stakeholder interviews with public, private, and civil society stakeholders to capture a wide range of perspectives on reuse metrics and calculation methodologies. Stakeholder interview insights were used both as input into two working sessions conducted with the core working group (during May and June, 2022), and to ensure group alignment when prioritizing and recommending reuse metrics for testing in 2023.

This section follows a chronological order, summarizing aggregated insights for Round 1 and Round 2 interviews. In the following two sections (“Reuse Metrics Shortlist” and “Reuse Metrics Prioritization Framework”) this high-level summary document will then zoom into specific elements summarized in the aggregated stakeholder interviews.

The **first round of stakeholder interviews** were aimed at understanding the following three elements:

- **Reuse Metrics (North Star Ambition):** What should our collective ambition for reuse metrics be? What core traits should our prioritized reuse metrics have to ensure we achieve this ambition?
- **Metric Definition & Calculation Methodology:** How should we define and calculate priority reuse metrics? What key elements must we measure to accurately track progress?
- **Role of Standardization in Reuse Metrics:** What role should standardization play in selecting reuse metrics?

Aggregated **round one stakeholder interview insights** are included below:

Reuse Metrics: North Star Ambition	Metric Definition & Calculation Methodology	Role of Standardization in Reuse Metrics
<ul style="list-style-type: none"> • Ambition is to select comparable reuse metrics aligned-upon upfront by key stakeholders, consistently reported on across industries • Metric selection should build on work done to-date by core stakeholders (eg, EMF and WWF) • Reuse metrics should, where possible, be packaging-type, industry/sector, product category agnostic to ensure accurate comparison • Suggestion from multiple stakeholders to get to a metrics “Version 1” that should be tested and improved over time • Tests should focus on a smaller subset of product categories initially to test & learn, and capture key lessons to then apply more broadly 	<ul style="list-style-type: none"> • Accurate reporting hinges on crystal clear definitions of metrics and calculation methodologies across selected reuse metrics • Calculations are mostly uncharted territory – we should expect to address and solve for obstacles such as data availability, data quality, tools and capabilities • Calculation methodologies need to be pragmatic – grounded in existing capabilities, available data, and know-how • Metrics definition and calculation should be a “living document” iterated/updated over time • Depending on the reuse modality, we will need to be comfortable making assumptions (eg, consumer behavior, reuse cycles) given lack of data 	<ul style="list-style-type: none"> • Metrics standardization is critical to achieve reuse metric comparability • Reuse metric definition and calculation methodology should be applied consistently when stakeholders measure and report

The **second round of stakeholder interviews** aimed at understanding the following two elements:

- **Capability, Tools, Collaboration Models Required for Reuse Metrics Testing in 2023:** What capabilities, tools, and collaboration models are required to test the two prioritized reuse metrics in 2023? How can this working group best support corporate stakeholders to test the prioritized metrics? What key challenges are expected?
- **Reporting Framework & Governance:** Which existing reporting framework should reuse reporting be incorporated into? What are the roles and responsibilities of each stakeholder group in this process? What key challenges are expected?

Aggregated **round two stakeholder interview insights** are included below:

Capabilities, Tools, & Collaboration Models Required for Reuse Metrics Testing in 2023	Reuse Reporting Framework & Governance Guiding Principles for Broader Scaling
<ul style="list-style-type: none"> • Testing the prioritized reuse metrics gives us a unique opportunity to pre-empt legislation (eg, testing/learning <u>before</u> legislation/standards are mandatory) • Most corporate stakeholders are aligned with a 2023 timeline to test reuse metrics, where results would potentially be reported in late 2024 or 2025 • Tests should be treated as an opportunity to learn internally – sharing progress/lessons/challenges within this working group, but not publicly • Tests should be as standardized as possible across corporations, accounting for elements like reuse modality, geographic focus, and product categories • Two major challenges were recurrently identified: 1) Establishing a clear definition of what is in scope before testing (definitions, inclusions/exclusions), and 2) Assumptions required to measure reuse efficiency • This working group’s commitment (particularly corporate stakeholders) to testing prioritized reuse metrics is key for this effort to succeed long-term 	<ul style="list-style-type: none"> • Full stakeholder alignment that reuse metric reporting should be integrated into existing reporting frameworks – the goal is to be as streamlined as possible, not to overload corporations with reporting requirements • Awareness that different legislations/standards will be introduced – a “problem for later” (not today) will be how to adapt to potential overlap • Reuse disclosures must include quantitative and qualitative information – we need to go beyond the numbers and look at progress/challenges /lessons/etc. • Stakeholder consensus that further discussion is required to determine whether prioritized reuse metrics should be recommended for broader ESG and climate disclosure mechanisms • Path to full scale will take time, and requires corporations to shift over time – we should expect progress driven by iterations and “trial and error”, but not an “overnight success” • Long-term success requires transparency, alignment, and collaboration across the value chain (eg, CPGs, Retailers, Governments/Cities, etc)

Reuse Metrics Shortlist

Building on work done to-date by core working group stakeholders like the Ellen MacArthur Foundation, the World Wildlife Fund, and Greenpeace, the Consumers Beyond Waste initiative initially evaluated a longlist of fifteen reuse metrics. The longlist of reuse metrics was segmented into the following four ways to measure reuse:

- **Weight and Packaging Units:** Measuring reuse based on weight or units (eg, reusable packaging weight or units, or by weight or units of packaging avoided through reuse models).
- **Share of Business:** Measuring reuse based on share of business (eg, share of volume or product units, or share of total revenues).
- **Efficiency:** Measuring reuse based on the number of loops an individual packaging unit achieves (eg, number of times a reusable package is reused across its lifecycle).
- **Availability:** Measuring reuse based on early indicators of overall level of effort and progress to track reuse (eg, number of stores using reuse systems, number of ongoing reuse tests).

Prior to extensively evaluating reuse metrics, the longlist of reuse metrics was initially prioritized into a shortlist of five metrics based on the following three criteria:

- **Range:** Metrics that represent the range of ways to measure reuse (eg, by weight, share of business, and efficiency). Metrics measuring reuse by Availability were deliberately excluded from

the evaluation process because metrics do not effectively measure the overall impact, scale, and take-up of reuse given their focus on effort vs. impact.

- **Applicability:** Metrics that effectively measure reuse across industries, product types, and different reuse modalities (as defined by EMF).
- **Stakeholder Interviews:** Metrics recurrently identified by core stakeholders interviewed as high potential metrics worth evaluating and prioritizing further.

Based on the criteria above, the following five metrics were shortlisted by the working group for further evaluation and prioritization:

Metric	Calculation Method	Potential Benefits	Potential Complexities
Share of volume or product units (that are reusable)	<i>Volume (e.g., liters of beverage, kilos of food, or kilos of personal care/home care products designed or developed to be reused)</i>	<ul style="list-style-type: none"> • Covers all four reuse model types • Gives a meaningful sense of scale and focus in a business • Avoids weight-based skews related to reusable packaging being heavier • Some corporate stakeholders already report this metric • Relatively straightforward calculation and easy to understand metric • Data likely available to measure and track metric 	<ul style="list-style-type: none"> • More challenging to ensure consistency across different businesses / product categories (eg, volumes of beverages vs. food vs. personal care/home care) • Could be subject to “gaming” without good guidelines well applied – eg, what constitutes a unit in a given business or for a given product category • Doesn’t reward efficiency of a reuse model (eg, compact refills, which may come in individual plastic packaging, would be treated equally with any other type of refill, and there’s no reward for having many use cycles) • Most business are too small scale in reuse to be able to report anything above 0% - so they are unlikely to report voluntarily because it won’t look good
Share of revenues	<i>Share of revenues (%) from reuse models</i>	<ul style="list-style-type: none"> • Covers all four reuse model types • Gives good sense of scale in a business • Avoids weight-based skews related to reusable packaging being heavier • Relatively straightforward calculation and easy to understand metric • Data likely available to 	<ul style="list-style-type: none"> • Doesn’t reward efficiency of a reuse model (eg, compact refills, which may come in individual plastic packaging, would be treated equally with any other type of refill, and there’s no reward for having many use cycles) • More likely to be subject to pushback that the data is too commercially sensitive for businesses • Most business are too small scale in reuse to be able to report anything above 0% - so they are unlikely to

		measure and track metric	report voluntarily because it won't look good
% Reusable packaging (by weight)	<i>Weight of packaging that is reusable (according to the definition used in the Global Commitment reporting guidelines) / total weight of new (i.e. not reused) packaging</i>	<ul style="list-style-type: none"> • Can be consistently applied (tonnages are homogenous) • Already part of the metrics captured in Global Commitment reporting • Relatively straightforward calculation and easy to understand metric • Data likely available to measure and track metric 	<ul style="list-style-type: none"> • Reusable packaging being heavier creates skews using weight-based metrics to give a sense of scale • Arguably underrepresents reuse, since reusable packaging is only counted once, regardless of number of use cycles (eg, a business with 15% reusable packaging may be delivering 50% of their revenues or product volumes through reuse, depending on efficiency, but this is not well conveyed by the 15%)
Total functional units delivered by reuse system	# of reusable packages x average # of uses reusable packaging achieves (loops)	<ul style="list-style-type: none"> • Robust metric – captures scale and efficiency of reuse • Can be consistently applied (metric that cuts across product categories) • Metric likely difficult to tell a compelling public story given more complex calculation methodology 	<ul style="list-style-type: none"> • Difficult to measure across some reuse modalities (driven by need to measure loops/efficiency) • Likely requires several assumptions (not fully based on data-driven insights) • Data availability likely an issue • Testing in the short-term likely difficult given difficulty in capturing data • Different reuse modalities may require different assumptions
Reuse efficiency	Functional units delivered by reuse / total functional units delivered by all packaging types	<ul style="list-style-type: none"> • Robust metric – captures scale and efficiency of reuse • Transparent (comparable and difficult to game but likely difficult to understand calculation/what the metric is saying) • Can be consistently applied (metric that cuts across product categories) • Builds upon “total functional units” metric – more robust version 	<ul style="list-style-type: none"> • Difficult to measure across some reuse modalities (driven by need to measure loops/efficiency) • Likely requires several assumptions (not fully based on data-driven insights) • Data availability likely an issue • Testing in the short-term likely difficult given difficulty in capturing data • Different reuse modalities may require different assumptions

Reuse Metrics Prioritization Framework

Shortlisted reuse metrics were then analyzed using a Benefit vs. Complexity framework, with the objective of clearly mapping and understanding tradeoffs across metrics. Benefit and Complexity parameters were co-created with the core working group, and developed leveraging work done to-date by the Ellen MacArthur Foundation on key factors to consider when evaluating reuse metrics.

By prioritizing reuse metrics using this framework, the working group was able to both understand the benefits and complexities of each individual metric, but more importantly to compare metrics relative to each other using the same parameters and criteria. Benefit and Complexity are defined as follows:

- **Reuse Metric Benefit:** Comparing metrics by absolute and relative benefit, focusing on the metric's ability to measure reuse accurately and effectively.
 - a) *Metric is robust and captures the key elements of reuse, including potential efficiency and scale (e.g., magnitude of packaging reduction and impact to business growth)*
 - b) *Metric can be accurately tracked and measured across multiple reuse modalities*
 - c) *Metric is transparent – easy to understand, with a straightforward calculation methodology, comparable, and difficult to “game”*
 - d) *Metric enables businesses to tell a positive public story (where appropriate).*
- **Reuse Metric Complexity:** Comparing metrics by absolute and relative complexity, focusing on capabilities, data, and insights availability to measure, and on estimated testing complexity.
 - a) *New capabilities, processes, tools required to measure metric.*
 - b) *Data and insights availability required to measure metric*
 - c) *Estimated testing complexity to test & learn and measure metric.*

The core working group applied the Benefit vs. Complexity framework above to the shortlist of reuse metrics with the objective of prioritizing a subset to test in 2023. This process consisted of three sequential steps.

First, the core working group **provided extensive feedback** on each individual shortlisted metric (aggregated working group feedback is included in the far-right column in the table below).

Metric	Calculation Method	Potential Benefits	Potential Complexities	Core Working Group – Aggregated Feedback
Share of volume or product units (that are reusable)	<i>Volume (e.g., liters of beverage, kilos of food, or kilos of personal care/home care products designed or developed to be reused)</i>	<ul style="list-style-type: none"> Covers all four reuse model types Gives meaningful sense of scale and focus Avoids weight-based skews related to reusable packaging being heavier Some corporates already report on this metric Relatively straightforward calculation and easy to understand metric Unlikely to allow companies to tell a positive story from the onset (low starting point) 	<ul style="list-style-type: none"> Challenging to ensure consistency (eg, volume of beverages vs. foods vs. personal care/home care) Could be subject to gaming – need to clearly define what a “unit” is in this context Doesn’t reward reuse model efficiency – compact refills (can come in single use plastic packaging) could be treated in the same way Data likely available to measure metric 	<ul style="list-style-type: none"> Metric measures total volume that <i>could</i> be reusable, but does not take into account actual loops Metric would be <i>more</i> useful if presented in relation to total packaging volume (to show there has been a decrease overall) Functional units likely make more sense to use vs. volume of food, beverages, or personal care/home care products (better view of reuse) Metric not suitable for products delivered in concentrated form – difficult to capture volume Metric could bring consistency challenges across sectors but also within a company’s business units If goal is to measure share of business, metric is more robust than using share of revenues (see below) Good metric so long as baseline measurement of volume is defined
Share of revenues	<i>Share of revenues (%) from reuse models</i>	<ul style="list-style-type: none"> Covers all four reuse model types Gives meaningful sense of scale and focus Avoids weight-based skews related to reusable packaging being heavier Relatively 	<ul style="list-style-type: none"> Doesn’t reward reuse model efficiency – compact refills (can come in single use plastic packaging) could be treated in the same way Data is potentially commercially sensitive to make 	<ul style="list-style-type: none"> Very difficult to compare, driven by FX, inflation, and other factors Comparing across countries difficult – will not be “apples to apples” Provides a worse sense of scale vs. share of volume – does not indicate how much packaging was reduced Can create skews depending on consumer segment targeted

		<p>straightforward calculation and easy to understand metric</p> <ul style="list-style-type: none"> Unlikely to allow companies to tell a positive story from the onset 	<p>public</p> <ul style="list-style-type: none"> Data likely available to measure metric 	<p>– high-end, more expensive, product segments can create skews as metric is based on value</p> <ul style="list-style-type: none"> Data is sensitive – less likelihood of reporting these figures
<p>% reusable packaging (by weight)</p>	<p><i>Weight of packaging that is reusable (according to the definition used in the Global Commitment reporting guidelines) / total weight of new (e.g., not reused) packaging</i></p>	<ul style="list-style-type: none"> Can be consistently applied (tonnages are homogenous) Already part of the metrics captured in Global Commitment reporting Relatively straightforward calculation and easy to understand metric Unlikely to allow companies to tell a positive story from the onset (low starting point) 	<ul style="list-style-type: none"> Creates significant weight-based skews Could under-represent reuse (does not take cycles and loops into account) Data likely available to measure metric 	<ul style="list-style-type: none"> Data may <u>not</u> be available, or be inaccurate if it is available – very difficult to measure how many reusable bottles are in circulation Difficult to measure certain modalities (e.g., refill, dispenser models) Difficult to measure depending on product concentration (e.g., products may be sold in small cartridges) Large “negative” of this metric is the weight-based skews (e.g., light packaging vs. heavier packaging) As standalone metric, could create issues (does not reward efficiency, focuses on design not sourcing)
<p>Total functional units delivered by reuse system</p>	<p><i># of reusable packages x average # of uses reusable packaging achieves (e.g., loops)</i></p>	<ul style="list-style-type: none"> Robust metric – captures scale and efficiency of reuse Relatively difficult to understand calculation Can be consistently applied across product categories Likely more difficult to tell compelling story – multiple assumptions 	<ul style="list-style-type: none"> Difficult to measure across some reuse modalities (driven by need to measure loops and efficiency) Likely requires several assumptions (not fully based on data-driven insights) 	<ul style="list-style-type: none"> Good metric to “cut across” industries, sectors, and products – however, likely requires several assumptions across modalities Good metric to show environmental impact, but requires clarity on calculation and reporting (otherwise could “mask” calculation approach) Requires understanding of consumer behaviour to measure loops

		required	<ul style="list-style-type: none"> • Data availability likely an issue to measure metric • Testing in the short-run likely difficult given data availability • Different reuse modalities may require different assumptions 	<ul style="list-style-type: none"> • Potential opportunity to embed this metric into <i>reuse efficiency</i> as opposed to being standalone • Could create environmental drawbacks if number of loops is not accurately measured
Reuse efficiency	<i>Functional units delivered by reuse / total functional units delivered by all packaging types</i>	<ul style="list-style-type: none"> • Robust metric – captures scale and efficiency of reuse • Transparent (comparable and difficult to game, depending on modality) • Can be consistently applied across product categories • Likely more difficult to tell compelling story – requires multiple assumptions / difficult to explain calculation • Builds on <i>total functional units</i> metric (more robust) 	<ul style="list-style-type: none"> • Difficult to measure across some reuse modalities (driven by need to measure loops and efficiency) • Likely requires several assumptions (not fully based on data-driven insights) • Data availability likely an issue to measure metric • Testing in the short-run likely difficult given data availability • Different reuse modalities may require different assumptions 	<ul style="list-style-type: none"> • Metric that <i>most</i> removes the biases shown in the previous metrics • Data availability may not be an issue – some stakeholders already have it • However, will require significant effort to clean and standardize data across different industries and sectors • Clear benefit is that metric will show how reuse has contributed to <u>overall</u> reduction of plastic waste • Metric helps with comparability – looks at proportion of total (builds on share of volumes / product units via greater flexibility – e.g., concentrates) • Requires clear definitions of what accounts as a “loop”, and how to measure metric

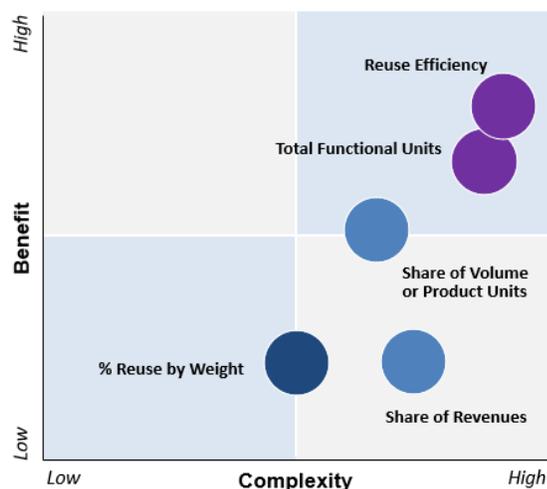
Second, the core working group **compared the metrics’ benefits and complexities relative to each other in order to inform the prioritization process**. This process involved extensive debate, where each working group participant was asked to provide an opinion and rationale. The final Benefit vs. Complexity evaluation is shown in the matrix below:

Metrics Evaluation Criteria



Benefit vs. Complexity Evaluation

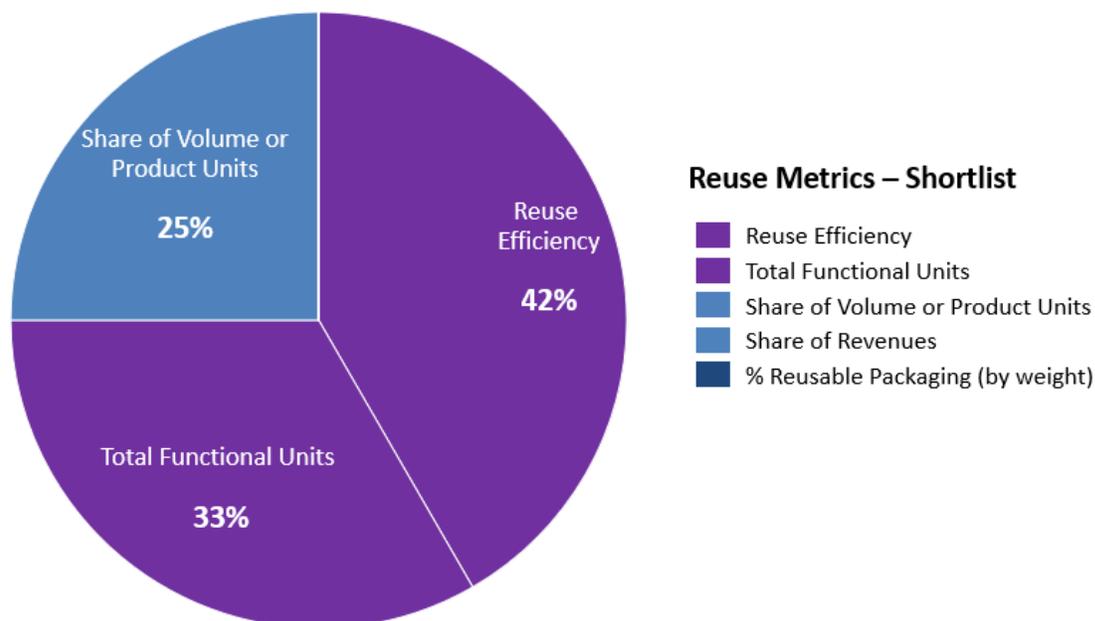
(Based on working group discussion & voting)



Several key takeaways emerged from the Benefit vs. Complexity evaluation on the 2x2 Matrix:

- Metrics **measuring reuse by efficiency** (*% of Portfolio Reuse and Total Functional Units*) were considered the most robust in measuring reuse accurately and effectively, but also the most complex. The high level of estimated benefit was mostly driven by the metrics' ability to best capture reuse efficiency and scale (considering the number of loops) relative to other metrics, as well as the applicability of the metric across industries and product types. On the other hand, the estimated complexity was driven by the number of required assumptions to calculate the metrics (eg, number of loops across some reuse modalities), the difficulty in tracking data across certain modalities, as well as the potential difficulty to test the metric.
- Metrics **measuring reuse by share of business** (*Share of volume / product units and Share of Revenue*) both scored relatively high in complexity. *Share of Revenue* was deprioritized given the low estimated benefit (driven by the metric's lower ability to provide a sense of scale of overall packaging reduced, and by potential skews driven by FX across countries and currencies). On the other hand, *Share of volume or product units* has a higher estimated benefit driven by the metric's ability to measure different reuse modalities, and present an accurate measurement of overall packaging reduced driven by reuse. This metric measures the total volume that is reusable, but does not take loops into account.
- Finally, **the single metric measuring reuse by weight** (*Weight of packaging that is reusable*) was deprioritized by the core working group given its low estimated benefit and medium estimated complexity. While low benefit was driven by significant weight-based skews the metric can generate (eg, light packaging vs. heavier packaging), complexity was driven by the metric's inability to track reuse efficiency (e.g., driven by weight-based skews).

Finally, after collectively aligning on the benefits and complexities of reuse metrics relative to each other, each organization voted on their top two reuse metrics. Each participating organization was given two votes, and could not vote for the same metric. Aggregated voting results are shown below:



Metrics measuring reuse by efficiency (*% of Portfolio Reuse and Total Functional Units*) received 75% of the total votes (every participating organization voted on one, or both, of these metrics). One metric, measuring reuse by share of business (*volume or product units*), received the remaining 25% of votes. No organization voted for *share of revenues* or *% of reusable packaging (by weight)* metrics. These results indicate that a combination of metrics measuring reuse by efficiency and by share of business is likely to provide the most holistic view of progress as organizations measure reuse moving forward.

Once reuse metric prioritization and voting was finalized, each participating organization was given the opportunity to provide additional commentary and feedback. An aggregated summary of final stakeholder feedback is included below:

- All core group stakeholders were aligned that at least one prioritized reuse metric should measure efficiency (and account for the number of loops).
- *Total Functional Units* metric should be rolled up into *% Portfolio Reuse* metric. *% Portfolio Reuse* builds upon the calculation and logic set forth by the *Total Functional Units* metric.
- Select stakeholders voiced that there is likely opportunity to track additional metrics beyond the prioritized top-2 reuse metrics to measure reuse in a fully holistic way in the future (e.g., measuring *weight of packaging avoided through reuse models*). Further discussion is needed.
- Calculating *reuse efficiency* requires the participation of key partners like retailers, and additional legislation because metric requires end-to-end visibility across the value chain (e.g., estimating # of loops).

Recommendation and Rationale

Informed by the evaluation and prioritization process described above, by final core working group input, and by a final analysis conducted by the CBW initiative team, two reuse metrics were recommended to be tested during testing in 2023. All recommendations presented in this high-level summary document are preliminary and require further validation via the test period in 2023.

The Consumers Beyond Waste core working group supports the following outcome and collective action:

1. **Prioritization of two reuse metrics:** *reuse efficiency* (measuring reuse by efficiency, focusing on the total number of loops a packaging unit achieves over the course of its lifetime) and *Share of volume or product units* (measuring reuse by volume of liters of beverage, kilos of food, or kilos of personal care/home care products designed or developed to be reused – eg, volume that is reusable).
2. **The core community of corporate stakeholders will test** one or both prioritized reused metrics during 2023, working with one another to share lessons learned and challenges encountered. This testing period should be treated as an opportunity to test and iterate reuse metrics as needed, with an ultimate objective of integrating reuse metrics into broader ESG and climate disclosure mechanisms.

IV. 2023 Reuse Metrics Testing

Testing Overview & Guiding Principles

CBW and its coalition have co-created a holistic testing strategy for corporate stakeholders to test prioritized reuse metrics in 2023. In developing this strategy, CBW and its coalition were deliberately pragmatic in solving for “Version 1”, and not for the “End State Measurement” (eg, the finalized version of reuse measurement ready for a final recommendation to governments and standard-setting institutions). Solving for “Version 1” means that testing in 2023 should be seen as a highly valuable opportunity to test and learn, but ultimately must be used as critical input to improve and reach the “End State Measurement” version in the future. Specifically, CBW and the working group agreed to follow the five guiding principles during the 2023 testing phase:

1. The 2023 reuse testing approach is an imperfect Version 1 – no recommendation or approach provided in this document is final.
2. 2023 testing is an opportunity to collect data, refine measurement approach, and test prioritized reuse metrics in “real world” settings.
3. No results from 2023 testing can be used to claim reuse progress by any stakeholder part of this coalition (corporate or NGO).
4. All reuse “inclusions/exclusions” mentioned in this section refer specifically to how metrics should be tested in 2023, not to how reuse should be measured (additional diligence, and testing results, are required to finalize reuse measurement approach).
5. When non-reusable (eg, single-use recyclable) packaging is used in 2023 testing calculations, data should be disaggregated and provided (if possible) for visibility.

In defining the holistic testing strategy described above, CBW and its coalition focused on four key dimensions: 1. Definition & Inclusions/Exclusions (defining reuse and specific measurement inclusions/exclusions), 2. Reuse Parameters & Scope (specific reuse parameters to test metrics), 3. Metrics Calculation (defining detailed metrics calculation approach and applying the approach to specific reuse product and systems examples), and 4. Reporting Structure (defining how, and what, corporate stakeholders testing metrics should disclose to the broader working group coalition – not publicly – during the 2023 testing phase). All dimensions are discussed in greater detail below.

Finally, while CBW provided high-level guidance on reuse end-state measurement, the focus of this phase was to develop the holistic testing strategy for 2023. All the dimensions discussed below refer

specifically to the testing period only, not beyond. As outlined below, all elements of the testing strategy can be revisited after 2023 testing to inform the end-state measurement of reuse.

Dimensions	<i>from</i> 'Reuse Metrics Testing (2023)'...	<i>...to</i> 'End-state Measurement'
Reuse Definition & Inclusions/Exclusions	<ul style="list-style-type: none"> Allows measurement to include packaging items that are not reusable so long as they are recyclable (<i>details on Slides 20-21</i>) Rationale: avoid additional testing complexity/collect more data 	→ - Revisit definition informed by testing outcomes and feedback
Parameter 1: Packaging Types	<ul style="list-style-type: none"> Only primary packaging is included 	→ - Revisit to include secondary and tertiary packaging
Parameter 2: Plastic Types	<ul style="list-style-type: none"> Specific plastic types excluded, per working group feedback 	→ - Revisit to determine whether other plastic types should be excluded or re-added
Parameter 3: Packaging Components	<ul style="list-style-type: none"> Any item designed to be reusable is deemed "reusable", even if it has packaging components that are not reusable Rationale: avoid additional testing complexity 	→ - Measurement must be revisited and thresholds created to avoid counting packaging components that are not reusable
Reuse Modalities	<ul style="list-style-type: none"> Metrics will be tested across all reuse modalities 	→ - No change (metrics should be measured across all four modalities)
Calculation Approach	<ul style="list-style-type: none"> Calculation approach outlined in this document to be tested 	→ - Calculation approach to be revisited based on lessons learned

Once 2023 testing concludes, this working group should revisit and improve key testing dimensions outlined above **to inform and finalize the "End-State Measurement" version of both metrics.**

Dimension #1: Definition and Inclusions/Exclusions

The first step in developing a holistic testing strategy was to define reuse and measurement inclusions and exclusions. CBW and the working group extensively evaluated potential definitions of reuse to ensure the right level of detail and nuances were captured in the testing period. The agreed-upon definition is informed by ISO's reuse definition, and tailored to this particular effort (reflecting extensive iterations and feedback from the CBW working group):

- **Reuse Definition for 2023 Testing:** Operation by which *packaging, either designed to be reused or as part of a broader reuse system, is refilled or reused for the same purpose for which it was conceived*, with or without the support of auxiliary products (eg, products used to support the refilling/loading of reusable packaging).

In parallel, a core component of testing was to define what should be included and excluded from reuse measurement during the 2023 testing phase. Across the four reuse modalities, CBW and the working group outlined specific examples of what should be included in the measurement phase. In some cases, exceptions were made to ensure the right amount of data is collected during the testing phase to trial, learn, and iterate on the measurement approach. However, some exceptions might need to be revisited after the testing phase to ensure the final version of reuse measurement recommended by this working group is accurate and comprehensive.

The main measurement exception is to **allow single-use recyclable packaging to be counted in some cases as part of reuse measurement.** This will allow corporate stakeholders to collect a larger amount of data required to understand whether the prioritized reuse metrics work in practice. This approach was agreed upon by both corporate and NGO stakeholders under the clear condition that **no reuse progress can be claimed during the testing phase.** The non-exhaustive table below outlines examples of what CBW and the working group have decided should be included/excluded from reuse measurement in 2023 (individual inclusions/exclusions, informed by this table, will be evaluated by each corporate stakeholder testing one or both reuse metrics during the 2023 testing period).

Reuse Modality	Key Assumptions	2023 Metrics Testing	2023 Metrics Testing – Rationale
Return on the Go	– Reusable packaging container	✓	– Packaging is reusable
	– Single-use (recyclable or non-recyclable) packaging container	X	– Packaging is not reusable
Return from Home	– Reusable packaging container	✓	– Packaging is reusable
	– Single-use (recyclable or non-recyclable) packaging container	X	– Packaging is not reusable
Refill on the Go	– Refillable container used to refill a dispenser system – eg, container used by CPG company to refill a food dispensing system	✓	– Container is fully refillable
	– Single-use recyclable container used to refill a dispenser system – eg, container used by CPG company to refill a food dispensing system	✓	– Not ideal but permitted for 2023 metrics testing to ensure enough data for this metric is collected
	– Refillable container used by a consumer – eg, consumer brings a refillable container and refills it using the food dispenser system	✓	– Reinforces positive consumer behavior to use reusable containers when refilling via dispensers
	– Single-use (recyclable or non-recyclable) container used by a consumer – eg, consumer brings container and refills it using the food dispenser system	X	– Does not reinforce positive consumer behavior to use reusable containers when refilling via dispensers
Refill at home	– Reusable dispenser container – eg, refillable hand soap dispenser	✓	– Container is reusable
	– Single-use (recyclable or non-recyclable) dispenser container – eg, hand soap dispenser	X	– Does not reinforce positive consumer behavior to use reusable dispensers and refilling them
	– Refillable individual packaging items used to refill a dispenser – eg, individual soap packaging carton used to refill the hand soap dispenser	✓	– Individual packaging items are refillable
	– Single-use recyclable individual packaging items used to refill a dispenser – eg, individual soap packaging carton used to refill the hand soap dispenser	✓	– Not ideal but permitted for 2023 metrics testing to ensure enough data for this metric is collected
	– Single-use non-recyclable individual packaging items used to refill a dispenser – eg, individual soap packaging carton used to refill dispenser	X	– Does not reinforce positive consumer behavior to use refillable containers when refilling at-home dispensers

Dimension #2: Reuse Parameters & Scope

CBW and the working group also evaluated and aligned on measurement parameters and scope, specifically looking at four key elements: 1) Packaging Types, 2) Plastic Types, 3) Packaging Components, and 4) Reuse Modalities. Over the course of several working sessions, the working group evaluated each part and aligned on what reuse metrics testing should focus on in 2023. Additional detail is provided across each element below:

- **Packaging Types:** CBW and the working group aligned that primary packaging presents the greatest opportunity to test reuse and should be the focus for the 2023 trial phase. While secondary and tertiary packaging were deprioritized for 2023 testing to avoid overcomplexity, the working group noted that any final version of reuse measurement and reporting can also include secondary and tertiary packaging.
- **Plastic Types:** All plastic types were evaluated in detail, and the working group decided to exclude Low-Density Polyethylene (LDPE), Polystyrene (PS) and Polyvinyl Chloride (PVC) from 2023 testing, in line with EMF’s Global Commitment 2022 Reporting [Guidelines](#) (pp. 39-40). All other plastic types can be included by corporate stakeholders in metrics measurement.
- **Packaging Components:** All packaging components (eg, bottles/containers, lids, labels, caps) can be included in the measurement, so long as they belong to a packaging item that was designed for reuse (even if the individual packaging component itself is not reusable). Although this may not be a perfect solution, the working group decided against including “thresholds” on how much of a specific packaging items needs to be reusable to count as “reuse” to avoid overcomplexity during the testing phase. to avoid testing overcomplexity the working group decided against including “thresholds” on how much of a specific packaging item needs to be reusable to count as “reuse”.
- **Reuse Modalities:** As discussed above, testing will occur across all four reuse modalities during the 2023 testing phase. CBW and the working group agreed that, even if data visibility might be low and certain assumptions are required, all four modalities should be piloted to collect more data (both internal corporate data and consumer behavioral data).

Dimension #3: Metrics Calculation

CBW and the working group extensively discussed and agreed upon a comprehensive calculation methodology for the two prioritized metrics across all four reuse modalities. Specific calculation examples were constructed that will support corporate stakeholder in testing the metrics in 2023:

- Calculation Methodology:** CBW and the working group outlined a calculation methodology for the two prioritized reuse metrics – *Share of Volume or Product Units* and the *Reuse Efficiency* - across all four modalities – Return on the Go, Return from Home, Refill on the Go, Refill at Home. The proposed calculation approach for the first metric is consistent across all four reuse modalities. Namely: [# of reusable or refillable units] / [total number of units in packaging portfolio]. The calculation approach for the second metric is slightly different for the return vis-à-vis the refill modalities. For the return modalities, the proposed calculation is: [# of reusable units * # of uses] / [# of reusable units * # of uses + # of single-use units]. For the refill modalities, the calculation is: [# of refillable units * # of refills] / [total number of units in the portfolio * total number of refills].
- Calculation Examples:** CBW also developed detailed calculation examples for both metrics across each reuse modality, which will offer a tangible template for corporate stakeholders as they begin testing the metrics in practice against their respective reuse and refill pilots or activities. The calculation examples use hypothetical amounts and percentages that provide a step-by-step arithmetic approach for companies, whilst outlining key assumptions that must be made (e.g., pertaining to consumer behavior). These examples are included in the testing playbook, with one focused on the arithmetic for Refill on the Go (containers refilled by consumers using dispenser) highlighted in the image below.
- Real-World Testing:** The calculation methodology and concrete examples will enable companies to start testing the reuse metrics in “real-world settings” to ensure their accuracy and validity. Major consumer goods companies and retailers are in support of testing the metrics against food, beverage, personal and home care products across markets globally.

Reuse Definition & Inclusions/Exclusions
Reuse Parameters & Scope
Calculation Approach & Examples
Metrics Testing Reporting Structure

Calculation Example #2: Refill on the Go (2/2)

CBW has developed detailed calculation examples for both metrics across each reuse modality

★ Corporate stakeholders should also use testing period to further understand and map consumer behavior.



Containers refilled by consumers using dispenser



Reuse Modality	Recap: Key Assumptions	Metrics Testing Inclusions vs. Exclusions	
		2023 Metrics Testing	End-State Measurement
Refill on the Go	- Refillable container used to refill a dispenser system – eg, container used by CPG company to refill a food dispensing system	✓	✓
	- Single-use recyclable container used to refill a dispenser system – eg, container used by CPG company to refill a food dispensing system	✓	X
	- Refillable container used by a consumer – eg, consumer brings a refillable container and refills it using the food dispenser system	✓	✓
	- Single-use (recyclable or non-recyclable) container used by a consumer – eg, consumer brings container and refills it using the food dispenser system	X	X

Reuse Product / System Example

Food dispensing reuse system (consumer containers)



Example Scenario (Key Parameters)

- Total volume refilled by the dispensing system to consumer containers = **2000 oz**
- Avg. Volume/Refill of consumer containers = **20 oz**
- Assumption: % of reusable consumer containers used = **30%**
- Assumption: % of single-use consumer containers used = **70%**
- # Refills/Unit (loops) = **2**

Metric	Inclusions/Exclusions & Assumptions	Calculation Approach
Metric #1: Share of Volume or Product Units <i>Proposed Calculation:</i> [# of units that are reusable] / [total number of units in packaging portfolio]	<ul style="list-style-type: none"> - Inclusions: Reusable/refillable containers - Exclusions: Single-use containers - Assumptions: % of reusable vs. single-use containers used; consumers fill up containers fully (eg, no “half units”) 	<ul style="list-style-type: none"> - Total # Units Used = 100 (2000oz / 20 oz) - # of Reusable Units = 30 (30% * 100 units) - Share of Reusable Units = 30% (30 / 100)
Metric #2: Reuse Efficiency <ul style="list-style-type: none"> • <i>Proposed Calculation:</i> [# of reusable units * # of uses] / [# of reusable units * # of uses + # of single-use units] 	<ul style="list-style-type: none"> - Inclusions: Reusable/refillable containers - Exclusions: Single-use containers - Assumptions: # of reusable vs. single-use containers used; consumers fill up containers fully (eg, no “half units”); and # of loops (uses) 	<ul style="list-style-type: none"> - Reusable Units = 30 - # Reusable Units * # Refills = 60 (30 * 2) - Total Units * Total Refills = 130 (30 reusable units * 2 refills/unit + 70 single-use units * 1 refill) - Reuse Efficiency = 46% (60 / 130)

Dimension #4: Reporting Structure

CBW and the working group co-created a detailed 2023 testing reporting structure, agreed to by the corporate and NGO stakeholders in the coalition. The reporting structure is centered around three parts:

- **Quarterly Testing Progress Update Meetings:** Each quarter, all members of this coalition will meet to discuss testing progress. The Progress Update Meetings are structured so that all results presented are standardized: CBW developed a comprehensive reporting template for corporate stakeholders to fill out in the weeks leading up to the meeting, and to present during the meeting for broader group input and feedback. This template is aimed at streamlining the process for corporate stakeholders to share key outcomes from testing, and intends for NGO stakeholders to be able to quickly read through reports and get up to speed prior to the meetings. CBW and the working group agreed that no sensitive commercial data will be shared. Instead, reporting will focus on lessons learned and key areas of input that corporate stakeholders must address.
- **Monthly Status Updates:** In addition to quarterly meetings, each month corporate stakeholders are expected to share, via a simple 3-4 bulleted email, any progress or roadblocks encountered. This monthly update was structured such that the coalition has continuous visibility into testing progress, and so that any issue arising can be addressed immediately (instead of waiting until the next quarterly progress update meeting).
- **Testing Post-Mortem:** Once the testing phase concludes at the end of 2023, one testing post-mortem meeting will be held in early 2024 for working group to share final lessons learned and align on path forward for reuse metrics (eg, decide if additional testing is needed, align on a new iteration of the metrics, and recommend metrics to legislators and/or standard-setters).

V. Path Forward

Three-Phased Approach

In collaboration with the core working group, the Consumers Beyond Waste initiative outlined a path forward centered around three phases:

- **Phase 1 – Complete:** During the second half of 2022, the core community engaged in a series of working sessions to delve more deeply into key dimensions required to test reuse metrics in 2023 (e.g., testing structure, reporting requirements, capabilities/tools, and collaboration models). Based on strategic input from the working sessions, CBW has developed the testing playbook to support corporate stakeholders in testing reuse metrics and enable other community stakeholders, such as NGOs, to effectively engage with corporate stakeholders and provide feedback on the testing process, outcomes, and next steps.
- **Phase 2:** During 2023, corporate stakeholders will test one or both prioritized reuse metrics to test, learn, and iterate. CBW and the rest of the working group will provide input and support to consumer goods and retail stakeholders during this phase. This phase will be an opportunity to share lessons learned and challenges encountered between the core members of the working group. In addition, this phase may also present the opportunity, depending on test results, to start integrating prioritized metrics into existing voluntary reporting frameworks such as EMF's Global Commitment Progress Report. Provided the testing phase demonstrates the prioritized metrics to be robust and insightful, EMF will add the option for Global Commitment signatories to report on them from 2024 onwards (disclosing 2023 data for the metrics in the 2024 reporting period).
- **Phase 3:** Assuming positive test results, CBW and the working group will start to engage in further discussions to decide whether to formally recommend prioritized reuse metrics to inform

government policies, regulations, and standards (e.g., integrating prioritized reuse metrics into broader ESG and climate disclosure mechanisms).

Disclaimers, Acknowledgements, & Contributors

Disclaimers

This working document serves as a contribution to a World Economic Forum project, insight area or interaction. The findings, interpretations and conclusions expressed herein are a result of a collaborative process facilitated and endorsed by the World Economic Forum.

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