



Provincial Update - Manitoba

SWRC Waste ReForum 2022

*Presented via Zoom on April 29, 2022

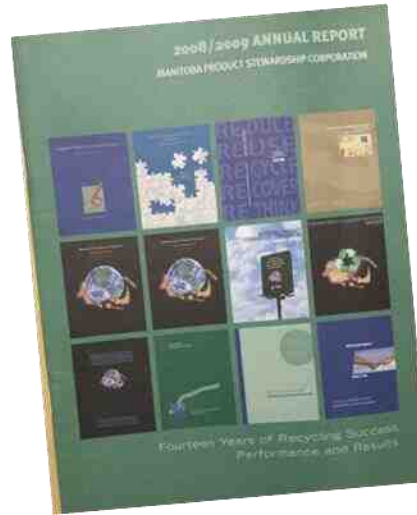


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My Background and Perspective



Province of Manitoba
(1993-1995)



Manitoba Product
Stewardship Corporation
(1996-2009)



Independent Consultant
(2009-present)



Current Situation - Manitoba

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Manitoba's Suite of PRO Programs

Manitoba currently has 12 producer responsibility organizations (PROs) mandated to enhance recycling and diversion



Other Important Programs, Initiatives and Supports

Manitoba also benefits from a number of other key programs, supports and initiatives that have helped to reduce waste and recover valuable resources, including:

- MB Waste Reduction and Recycling Support (WRARS) Program
- Manitoba Composts Program
- MOPIA (regulated program for ODS management but also encourages appliance recycling)
- First Nation Solid Waste Management Initiative (Indigenous Services Canada)
- Manitoba Association of Regional Recyclers (MARR)

A Sampling of Entrepreneurial Success Stories

REFRESH™ - A FRESH START TO SUSTAINABLE PACKAGING

Winpak Launches New Platform of Sustainable
Flexible Packaging



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Summit Soil Fabrication



Winnipeg



OvertonEnvironmental
REPAIR INC.

EcoTea™



MOTHER EARTH
RECYCLING
Creating A Sustainable Community Together



Overall - Positive impact but still lots of work to do

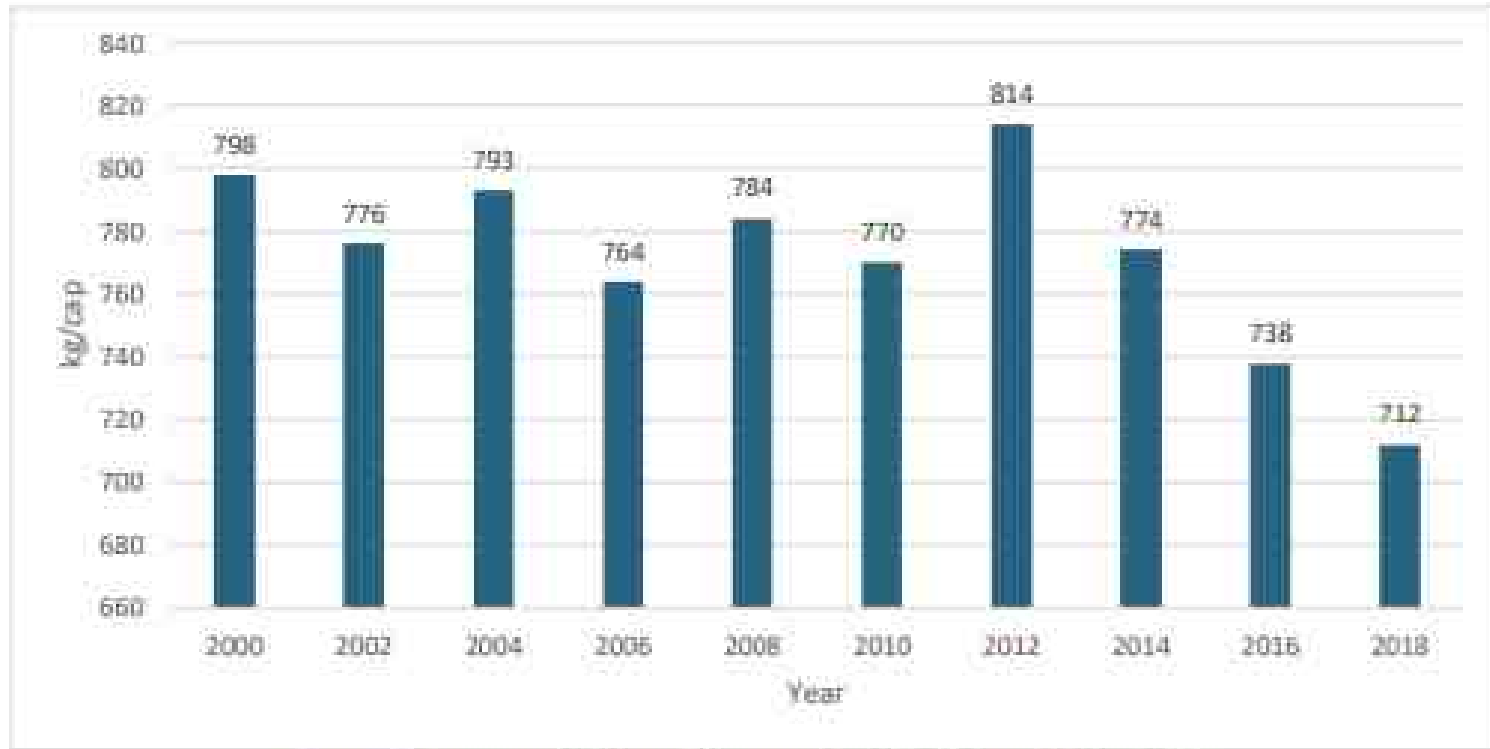


Figure 1: Amount of Waste Disposed in Manitoba, 2000 to 2018



Looking forward - Manitoba

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What will the Province do next?...It's under review.

Manitoba Waste Diversion & Recycling Framework Review (consultant recommendations)...

Program Enhancement

- Add new Stewardship Materials
- Expand Diversion programs to service the ICI Sector
- Expand Diversion programs to service the CR&D Sector

Program Accountability

- Increase Program Accountability through Updated KPIs and Targets
- Increase Enforcement Measures
- Introduce Enhanced Data Reporting Requirements

Program Effectiveness

- Implement 100% EPR for PPP
- Update Material Recovery Targets
- Increase Accessibility to Waste Diversion
- Landfill Levy Updates



<https://gov.mb.ca/asset-library/en/proactive/2022/waste-diversion-recycling-framework-review.pdf>

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What is Extended Producer Responsibility?



Extended Producer Responsibility (EPR) is a policy approach under which producers are given a significant responsibility – financial and/or physical – for the treatment or disposal of post-consumer products. – Organisation for Economic Co-operation and Development (OECD)

- EPR is not one single type of program or regulation
- Core characteristic of an EPR policy is that it places some degree of responsibility for a product's end-of-life management on the producer and/or seller of that product.

Evolution of Packaging & Printed Paper EPR in MB

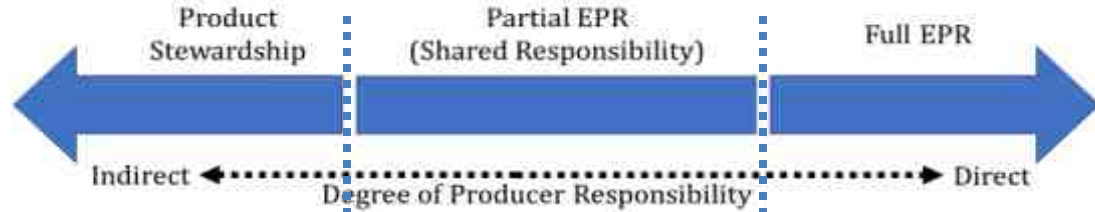


Limited, but very dedicated, PPP recycling across MB
 Ex1. Consumer funded, subscription-based curbside recycling in Wpg
 Ex2. 100% tax-base funded community/ regional recycling depots (MARR!)

Pre-1995



MPSC
(1995-2010)



(2010-2022?)

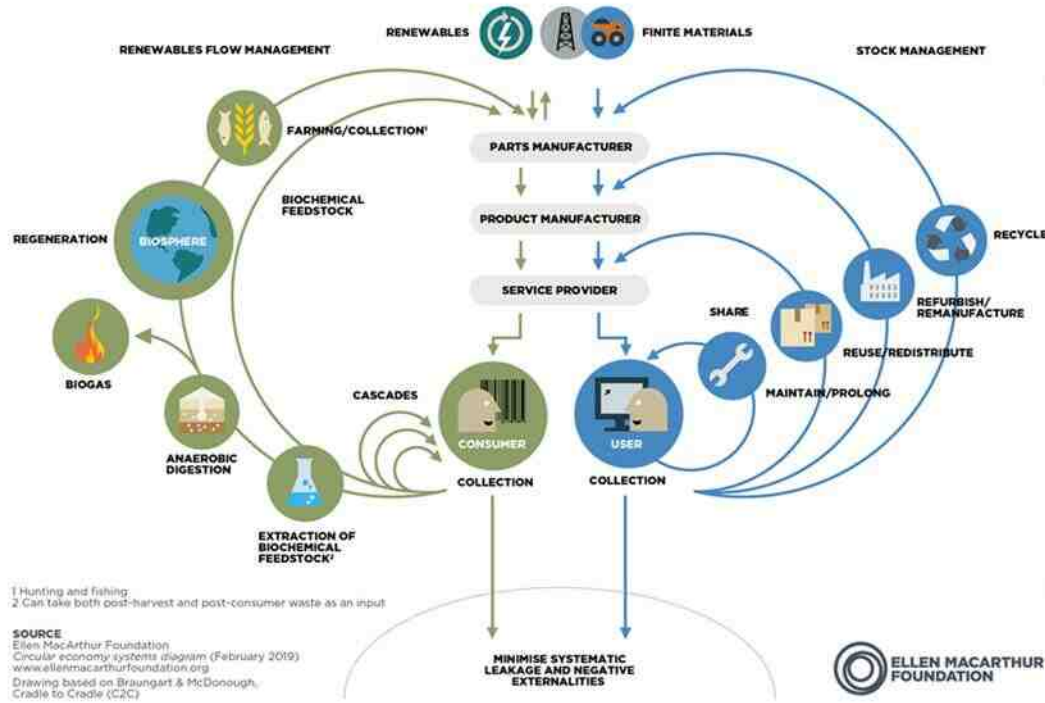
(2022? -)

MMSM's Proposed Approach & Timelines

	Proposed Timeline
Phase 1 Plan and Regulation	2022
Phase 2 Collection Service Design	2022
Phase 3 Community Participation	2023
Phase 4 Catchment Design & Sequencing	2023
Phase 5 Procurement	2023-2025
Phase 6 Transition Communities	2024-2026

As presented by MMSM to MARR (Feb 24, 2022)

Circular Economy - systems-based thinking and 3 Core Principles



- 1. DESIGN OUT WASTE AND POLLUTION**
- 2. KEEP PRODUCTS AND MATERIALS IN USE**
- 3. REGENERATE NATURAL SYSTEMS**

Ex. Framing (Unpainted, Uncontaminated) Wood “Waste”

TAKE



MAKE



WASTE



1. Findings, recommendations from 2019 report still relevant



- ✓ ~2.0 kilograms of waste is generated per square foot of new home built.
 - *To estimate total generated in any given province, community, development, etc. multiply 2.0 kgs \times total housing starts \times average square foot of homes built*
- ✓ ~79% of material collected in the study was recycled, diverted or kept as reusable salvage. (Significant potential to reduce waste, conserve resources and yield cost savings from avoided waste disposal tipping fees).
- ✓ Unpainted, untreated and uncontaminated Wood (Lumber, OSB and Plywood), Drywall, Asphalt shingles, corrugated cardboard; and metals are low hanging fruit.

Framing Lumber through Circular Economy Lens

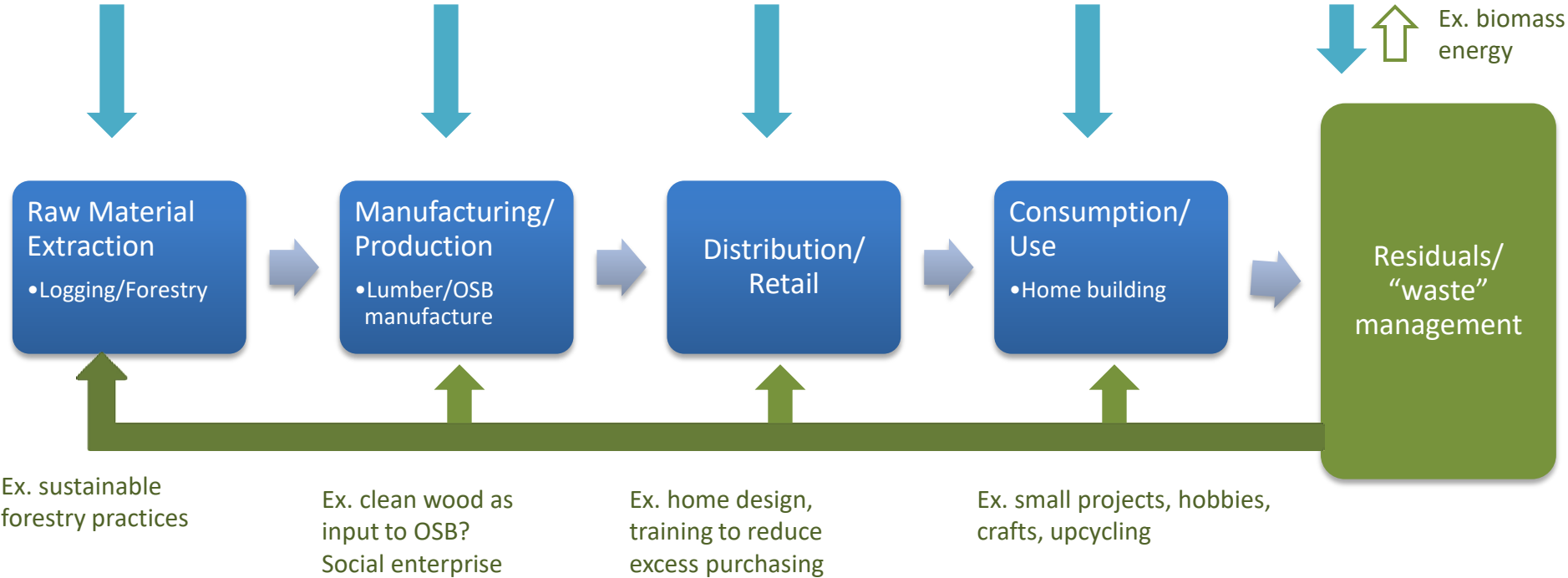


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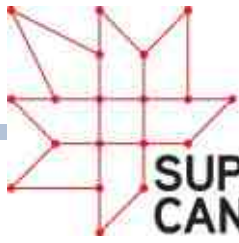
DESIGN OUT WASTE, POLLUTION	KEEP PRODUCTS, MATERIALS IN USE	REGENERATE NATURAL SYSTEMS
<p><i>Can we reduce wood “waste” through sustainable design?</i></p> <p><i>Are there sustainable alternatives, new innovations that use less wood (ex. I-Joists) and/or less toxic adhesives</i></p> <p><i>Are there new, innovative business models that incent framing contractors to minimize waste?</i></p> <p><i>What training can we provide to assist framers to minimize waste?</i></p>	<p><i>Can framing lumber scraps be used in:</i></p> <ul style="list-style-type: none"> - furniture manufacturing? - manufacture of new OSB or other engineered wood products? - manufacture of kraft paper products? - Small business, social enterprise or hobbyist projects? - Can (and should) more framing lumber scraps be collected for use in biomass energy systems? 	<p><i>Can clean wood be used in soil fabrication and/or composting?</i></p>

Circular Economy as viewed through a simplified supply chain lens

Energy Production, Distribution & Consumption



➡ Transportation, Logistics, Warehousing



Circular Economy Project

SUPPLY CHAIN
CANADA™

“Phase 1” underway – Awareness, Engagement, Defining Training Needs

- Develop a common definition of “circularity”
- Engage sector councils to determine their current level of circular readiness and engagement
- Engage the business community to determine the skills gap inhibiting the adoption of circularity in Manitoba.
- Increase the awareness, and adoption, of circularity by small/medium businesses and communities.

Proposed “Phase 2” will focus on: Tools, Resources, Pilot studies



Thank you for letting me be part of your conference!

* Some of the images on this presentation were sourced from various websites and are being used for educational purposes only. (Citations appended)



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