

Circular Economy: Information for Manitoba Recyclers and Communities

2022 Manitoba Recycling &
Waste Reduction Forum

October 12, 2022

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Circular Economy

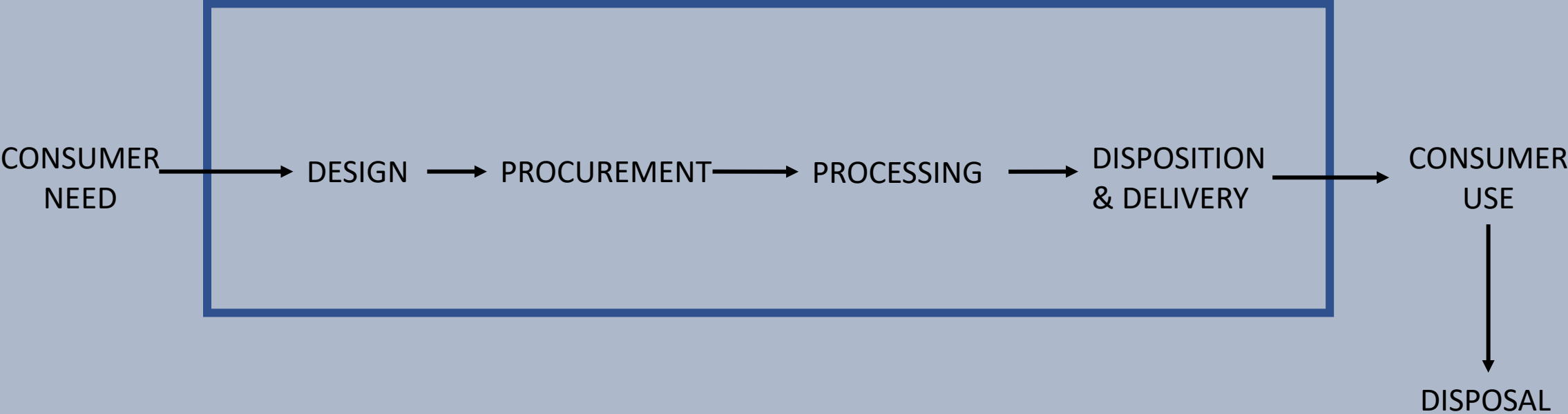
What is it?

A Definition

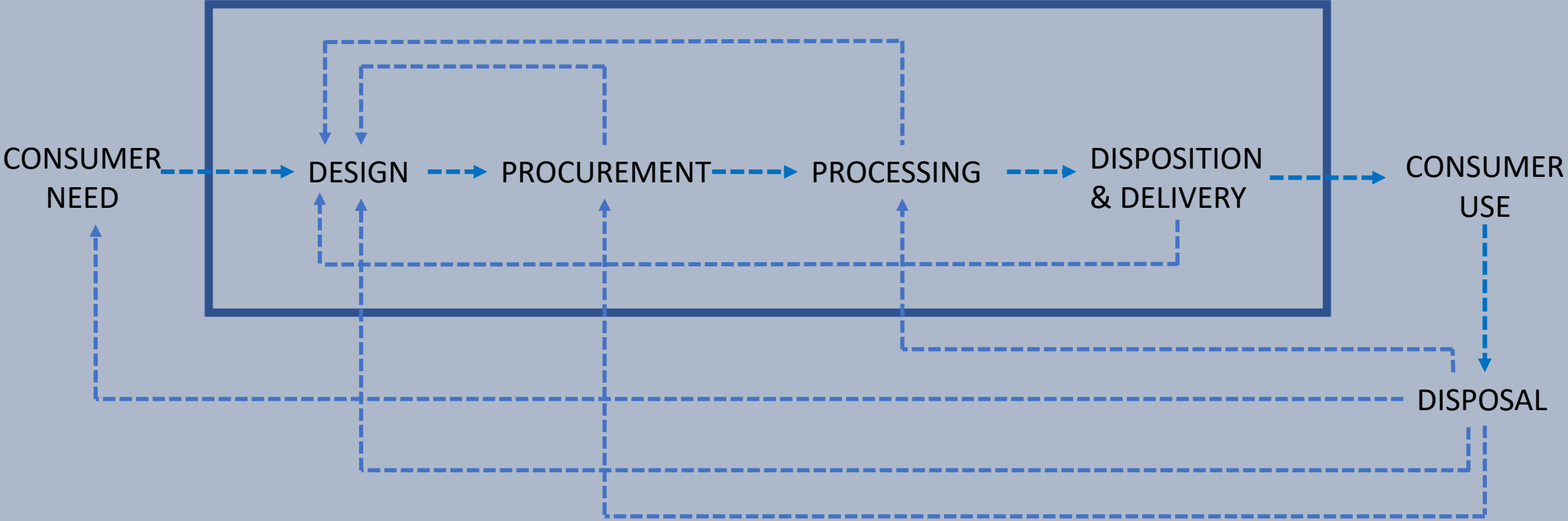
An economy:

- that produces and uses goods while ensuring **no waste or pollution is created** throughout the value chain
- ensures materials and energy are **continually used and re-used** at their highest possible value
- in which **natural systems are regenerated**, mimicked and protected as part of production processes.

Linear Economy



Circular Economy – Materials

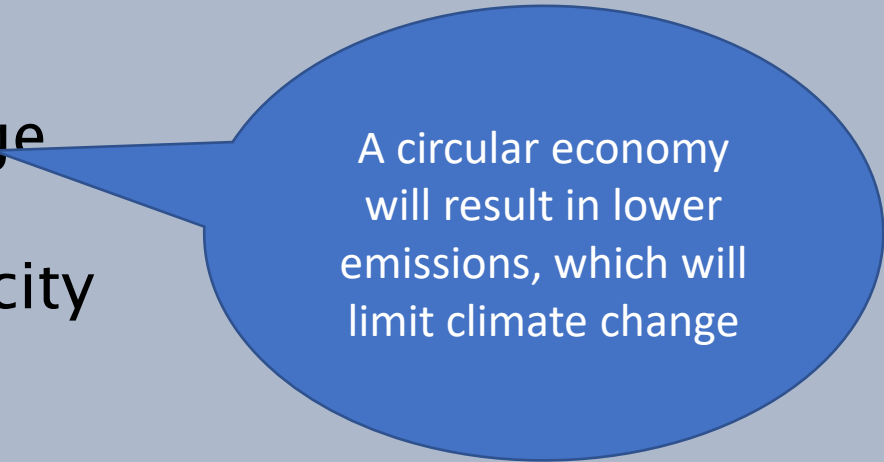


How does circularity
fit?

Important Linkages

Circular Economy Linkages

- Climate Change
- Resource scarcity
- Recycling
- ESG
- Sustainability



A circular economy will result in lower emissions, which will limit climate change

Circular Economy Linkages

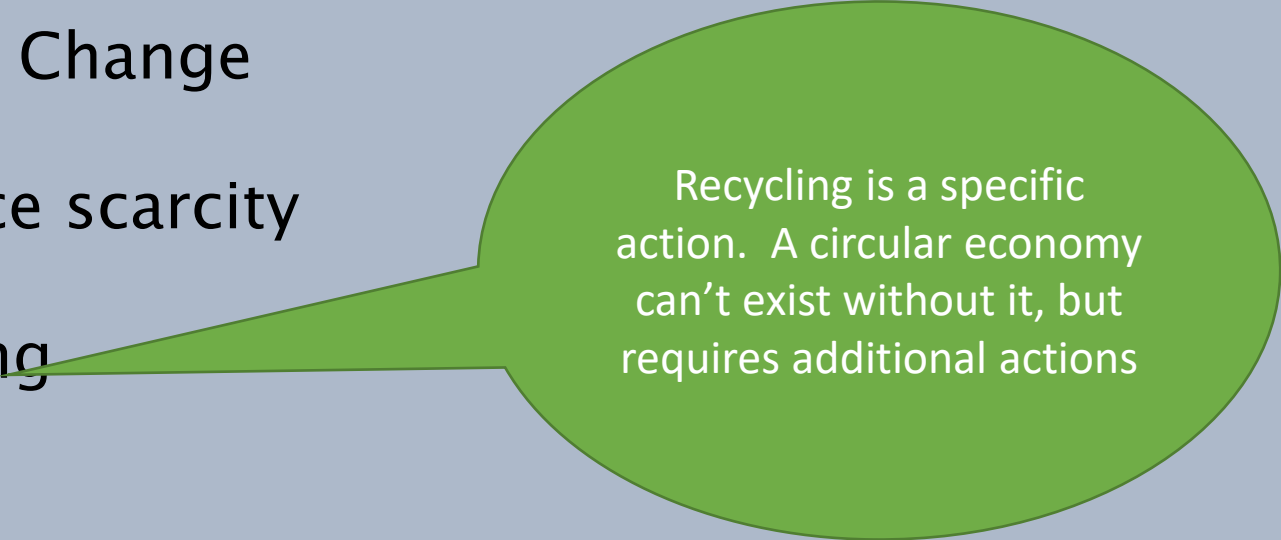
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By cycling materials over and over again we need less virgin material, which is becoming more scarce and harder to access

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Recycling is a specific action. A circular economy can't exist without it, but requires additional actions

Circular Economy Linkages

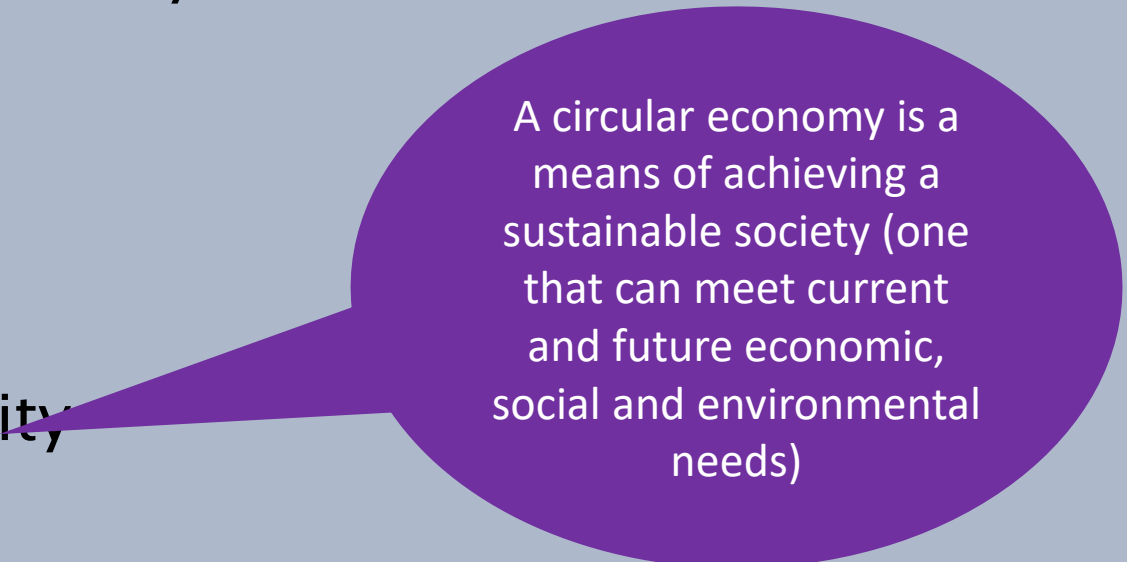
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Circular practices can help an organization meet its **E**nvironmental, **S**ocial and **G**overnance commitments.

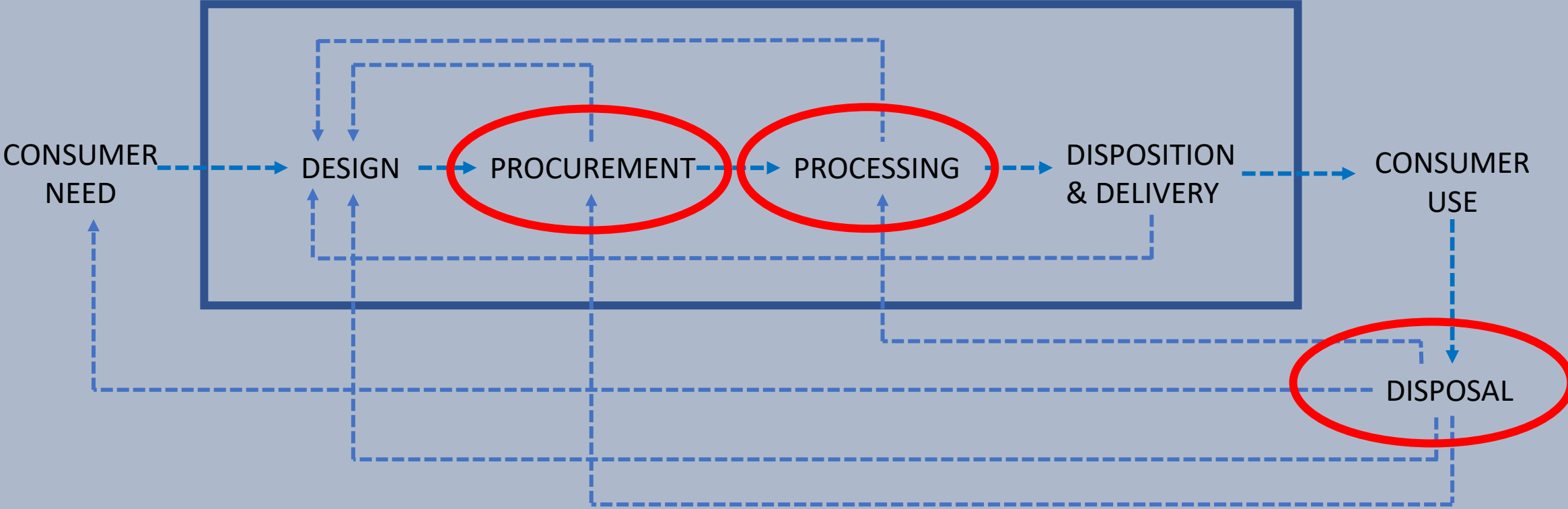
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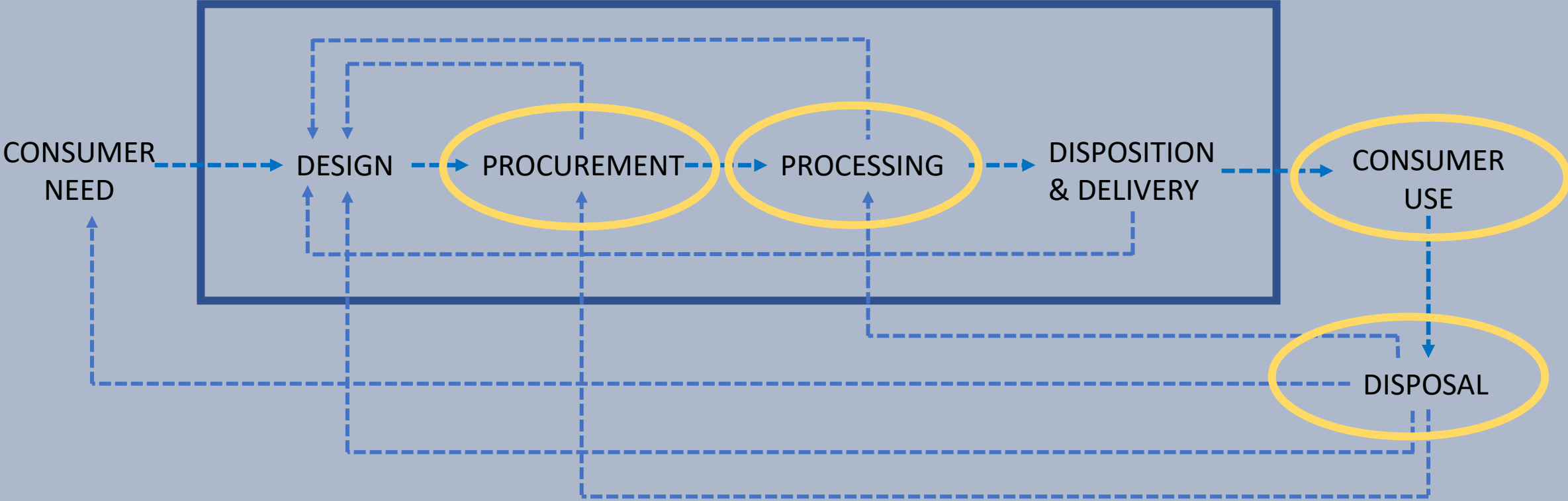


A circular economy is a means of achieving a sustainable society (one that can meet current and future economic, social and environmental needs)

Opportunities & Risks for Recyclers



Opportunities & Risks for **Communities**



What does it look
like?

Models & Examples

Circular Business Models



Circular Supply Chain



Resource Recovery



Product Use Extension



Sharing Platforms



Product as a Service



Circular Supply Chain

- Using recycled, renewable, recyclable production inputs
- Limiting / eliminating ‘new’ resource inputs
- Key element: substitution and alternatives





Resource Recovery

- Capturing the embedded energy or material in unwanted / unused things
- Recycling, upcycling, downcycling
- Key element: post-production, end-of-use recovery

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Product Use Extension

- Potential use of a product is deliberately extended
- Resale, repair, upgrades, design
- Key Element: look for opportunities throughout entire life-cycle





Sharing Platforms

- Optimizing use of assets by sharing access
- Key Element: Coordination of multiple asset owners; to scale likely requires digitization of platform





Product as a Service

- Company retains ownership of product, while leasing / renting the product for service
- Key Element: Potential for use of this model in virtually all sectors, for all products and use



A Circularity Study

What have we been up to?



Establishing Circular Economy Principles and Practices in Manitoba - A Supply Chain and Post-COVID Recovery Perspective

Report prepared for:

Industry Workforce Development, Manitoba Economic Development and Jobs
Special Project Case #903555



**SUPPLY CHAIN
MANITOBA**

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**STRATEGYMAKERS
CONSULTING**

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Project Objectives

1. Develop common definition.
2. Determine Sector Council readiness and engagement.
3. Determine knowledge gaps among small business, academia, governments.
4. Increase awareness through marketing and awareness program.

Project Conclusions (abridged)

1. In general, the concept of circular economy is not well understood among organizations in Manitoba.
2. Most participants expressed interest in the opportunities circularity may offer for their organization.
3. Recent supply chain issues may help drive adoption of circular economy practices.

Moving Forward

Expect to see...

- General and targeted awareness campaigns
- Training programs
- Development of formal hubs, networks and partnerships
- Pilot projects and research
- Community / First Nations leadership



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