

Exploring Circular Economy



Photo: Erlend Ekseth on Unsplash

SWRC Fall Workshops 2023

Circular Economy

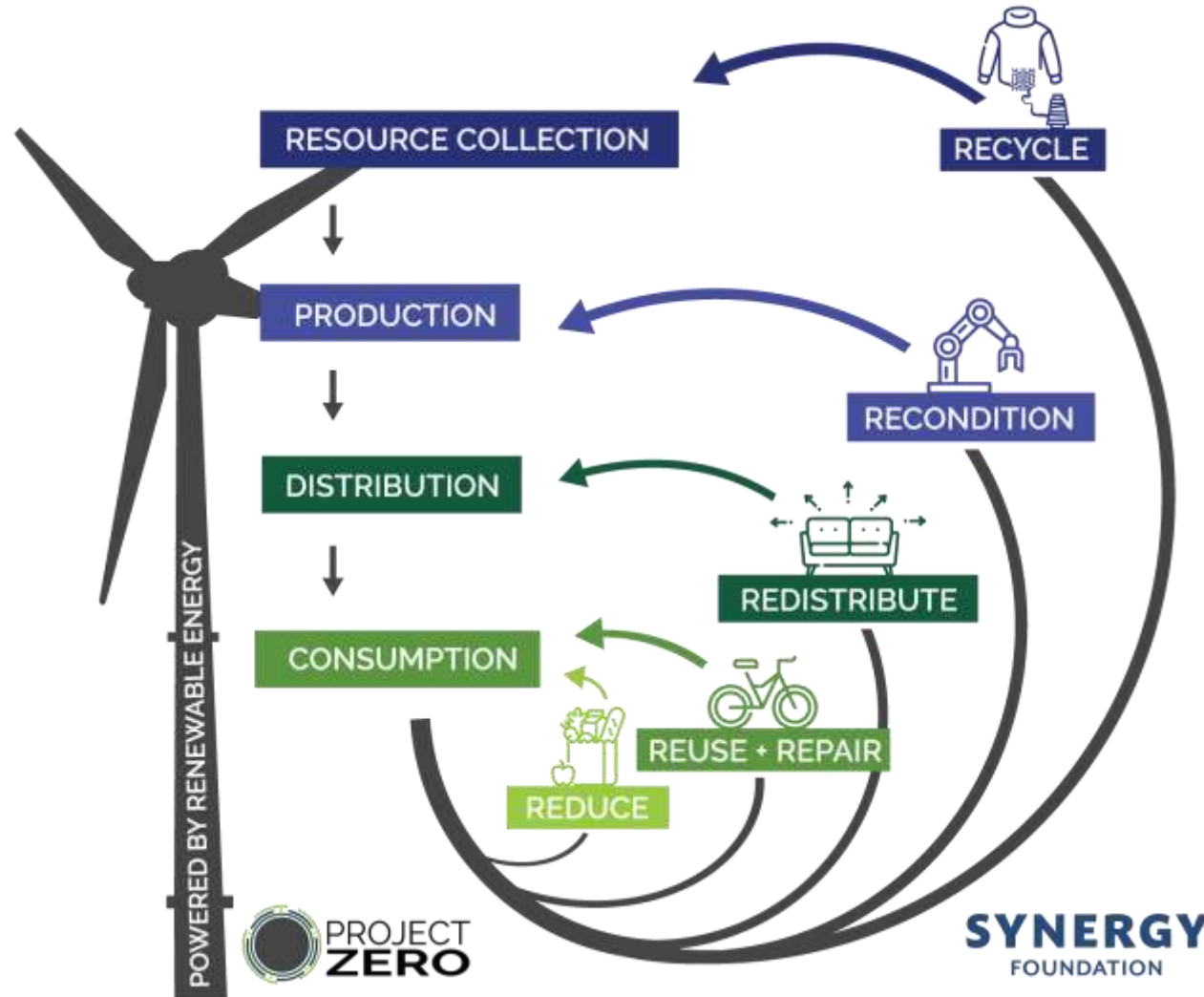


Circular Economy



Materials never
become waste and
nature is regenerated

Circular Economy



A Circular World - Design

- Carefully designed – design is THE KEY decision – all others flow from it
- Mimic nature's processes & designs – byproducts are used as inputs; biomimicry



A Circular World - Reuse

Reuse/ Refill systems replace single use



-deposits
-washing facilities



1 Order containers and we will deliver in 24 hrs max.

2 Pack your food in beautiful, durable containers.

There is a \$1.00 deposit charge per container plus your price for the food.

3 Your customers enjoy their meals and rinse containers.

4 They return to select bottle depots for refund

Fee - A Processing Fee is applied by the staff/depot services.

Earthware

5 Earthware collects them, sanitizes them & sends them back into circulation

6 Using compliant packaging, you keep single-use containers from the landfill.



A Circular World – Fewer Things

- Less individual ownership – more rentals; more sharing platforms; more products as service



Pivot Furniture



A Circular World – Better Things

- Products last longer (design) – end of life comes after multiple cycles of use (circular = circulate)
- Right to Repair/Repairability index
- Refurbishment & Remanufacture



Circular Asset Management

Optimize use and sustainable disposal



A Circular World – Regenerates

- Nature – focus on re-generation, renewal
- Loop Resource
- Huma Terra

OUR FIVE STEPS FOR WASTE REDUCTION

1.



1. Source reduction

2.



2. Diverting edible food to humanitarian organizations (if requested by the store)

3.



3. Diverting food waste as feed

4.



4. Diverting food waste as fuel

5.



5. Diverting food waste as composting material



A Circular World – Recycling last

- Recycling, not landfilling, is the last resort
- Complete the circle please
- Open loop
 - Better than nothing
 - And then what?

A Circular World

- Careful design
- Reuse replaces single use
- Fewer things
- Better things
- Regenerative
- Recycling last

Thank you!

Joanne Fedyk
joanne@swrc.ca

A Circular World

- Transport done with renewable fuels



Eviation Alice



A Circular World

- Buildings – net zero/positive energy; designed for reuse/reassembly;

