



CONSTRUCTION
PLASTICS
INITIATIVE

Program Overview

A pilot program to repurpose plastic waste from construction sites in BC





POWERED BY

Our Mission is to advance regenerative and circular practices in the built environment that nurture ecological and human health. That means designing buildings and communities that reduce and reuse building materials, waste, and carbon emissions.



The CPI Team

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THE CHALLENGE

**Approximately 10%
of all materials used
in construction are
wasted.**

The Challenge



Plastic pollution
is a global
concern



Canada has set a
target of zero
plastic waste by
2030



The federal Plastics
Registry will require all
producers to report out on
construction-related
plastics after 2026.

PLASTICS MANAGEMENT ON CONSTRUCTION SITES

- We do not know how much plastic is generated by construction projects.
- Studies from Europe estimate **almost 80%** of the plastic waste from on-site construction activities is clean packaging and can be easily diverted.
- Currently, virtually all plastic generated on construction sites in Canada goes to landfill or is buried on site.



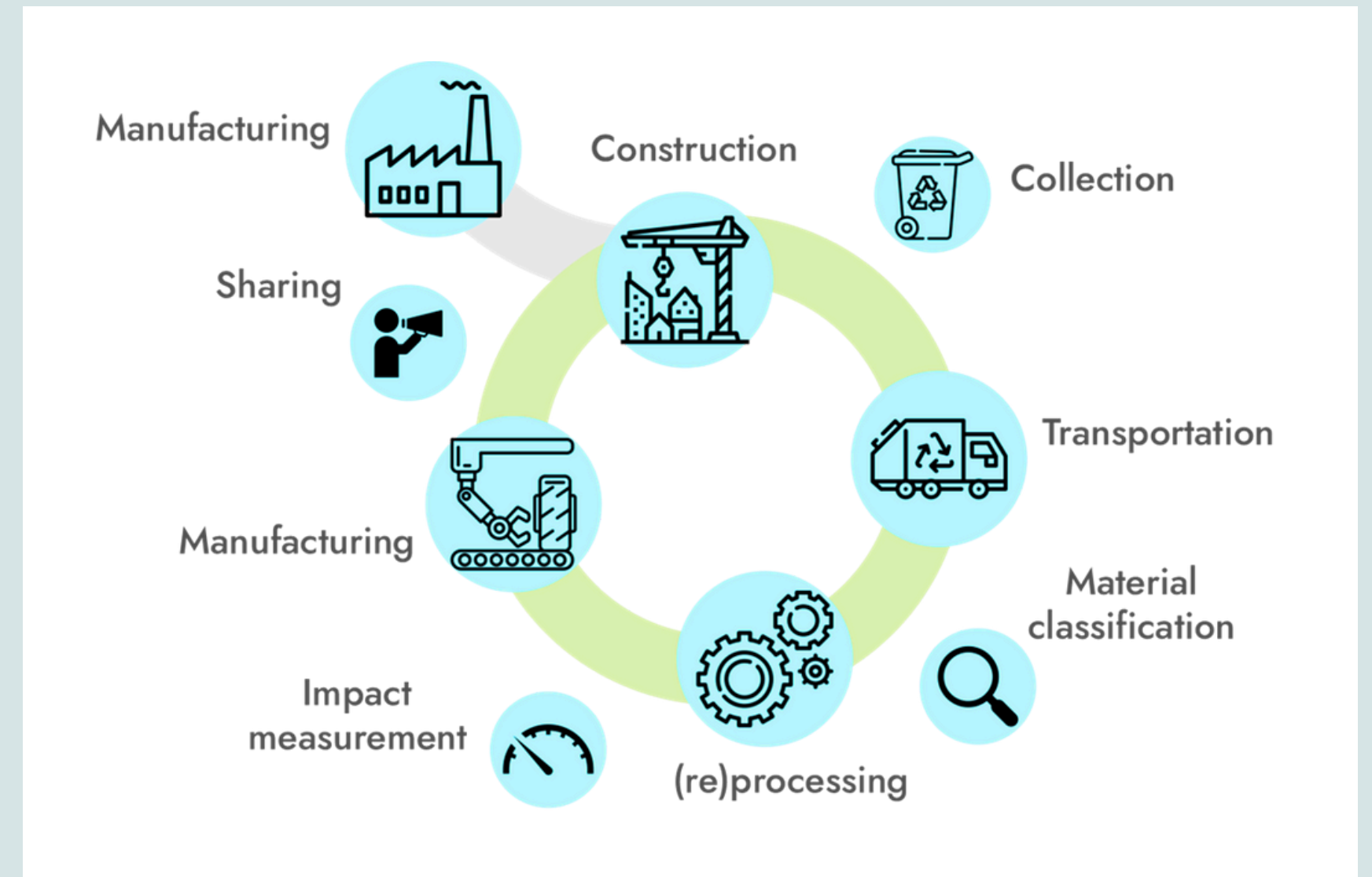
CONSTRUCTION PLASTICS INITIATIVE: PURPOSE

- To reduce, divert and repurpose plastic in construction.
- Demonstrate the feasibility of circular economics in construction.
- Showcase the importance of local industry to support circularity in construction and the economic potential.



CONSTRUCTION PLASTICS INITIATIVE: FRAMEWORK

- The pilot runs for 18 months (Sep 2024 – Feb 2026) with possible extension to 2028
- Plastics are collected separately on-site
- Collected plastics are sent to a processor and recycled into a reusable plastic pellet
- Local plastics manufacturers integrate the recycled pellet into a range of innovative, locally manufactured building products.



TAKING IT CIRCULAR

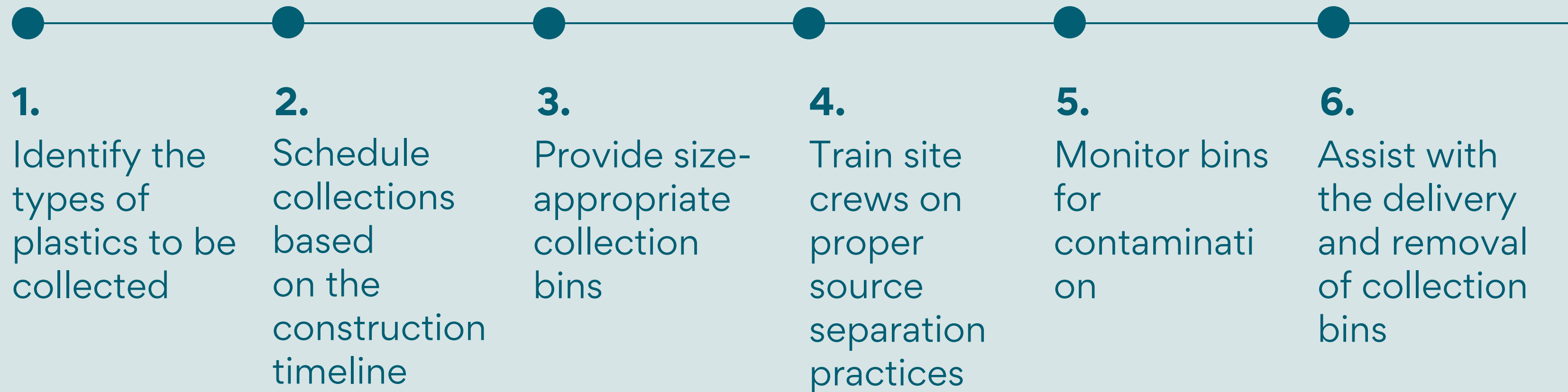
Project partners have the opportunity to integrate products manufactured from the recycled plastics into their building projects to reduce virgin material use, loads and meet municipal embodied carbon reduction requirements.

Right: Infinatec's VoidDeck -- a patented network of egg-shaped spheres designed as a void for concrete slabs in multi-unit residential buildings.



HOW IT WORKS

This pilot provides a qualified site monitor to each participating construction project. The site monitor works with the general contractor and site supervisor to:



CONSTRUCTION PLASTICS INITIATIVE: CONTRACTOR COSTS

- CPI presumes that a self-sustaining economic model exists for plastic recycling.
- Participating contractors are required to cover the costs of the collection bins and transportation as with any site waste management.
- CPI provides the option to use a dedicated hauler who will aim to match the build's hauling costs, keeping waste management costs unchanged.
- CPI maintains a small reserve to offset any unforeseen costs to contractors associated with participating.

CONSTRUCTION PLASTICS INITIATIVE: PARTNER BENEFITS

- ✓ **Visibility and recognition** as industry leaders in all project reports, media releases conference presentations, webinars and other outreach activities
- ✓ **Alignment** with your corporate and client ESG and sustainability goals
- ✓ **Data** about the type and volume of plastics generated and diverted
- ✓ **Full cost accounting** of costs incurred and savings realized through diversion practices
- ✓ **Education** of site staff on best practices in plastics management
- ✓ **Access** to project tools and resources
- ✓ **Future proofing** in the face of emerging plastics policy
- ✓ **Preferential access** to products made with construction plastics.



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