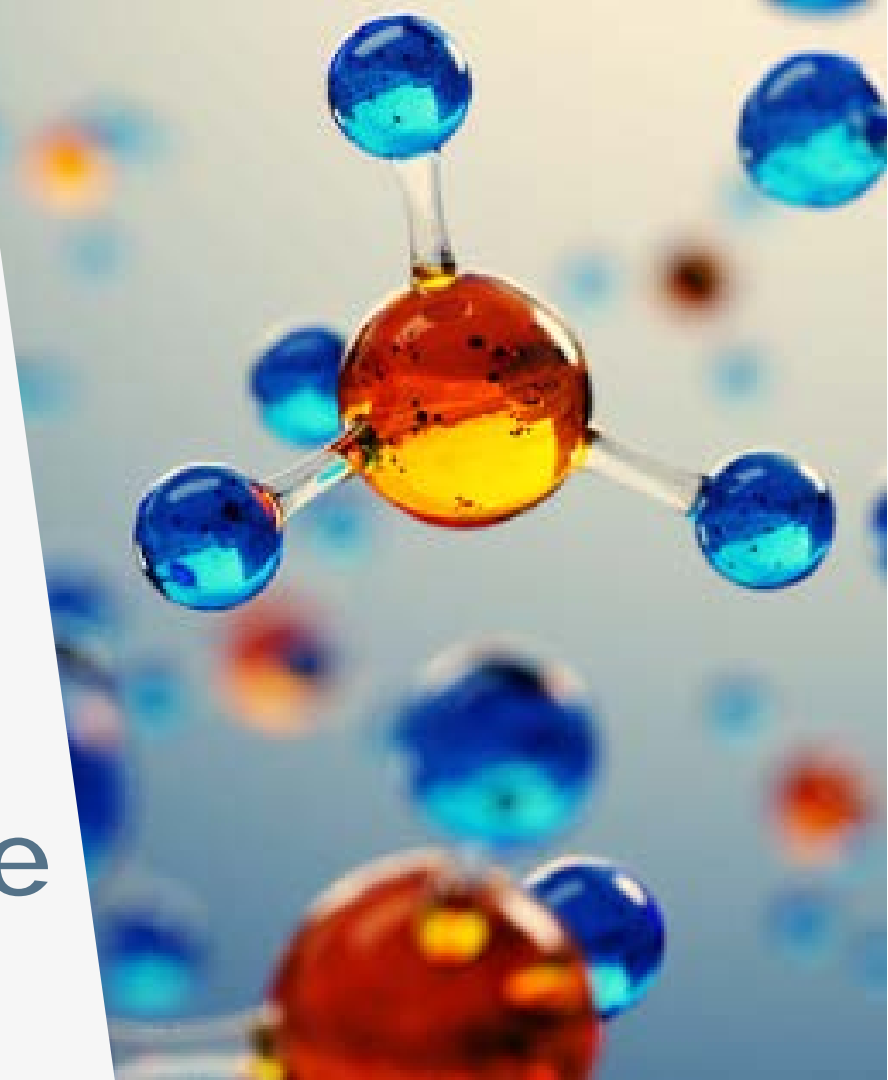




^{14}C Supply
Long Term
Sustainable Source





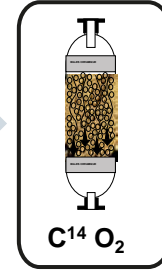
IX resins

^{14}C Harvesting Process



Stabilized C^{14} Compound
Low specific activity

Concentration Steps



C^{14}O_2
High Specific Activity On
Molecular Sieves

or



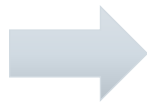
$\text{BaC}^{14}\text{O}_3$
High Specific Activity
Solid



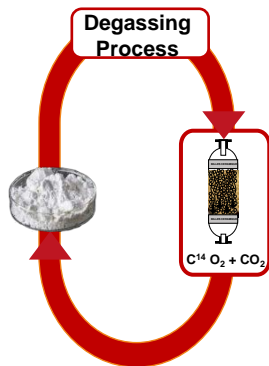
C¹⁴ Harvesting Process



IX resins



Stabilized
C¹⁴ Compound
Low Specific
Activity

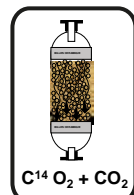


C¹⁴
(Low specific activity)

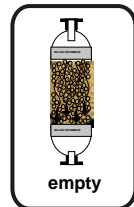


C¹⁴ concentration process

C¹⁴
(Low specific activity)

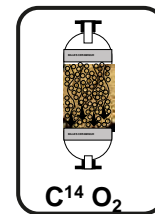


C¹⁴ O₂ + CO₂



empty

Recycling
empty
molecular
sieve



C¹⁴ O₂

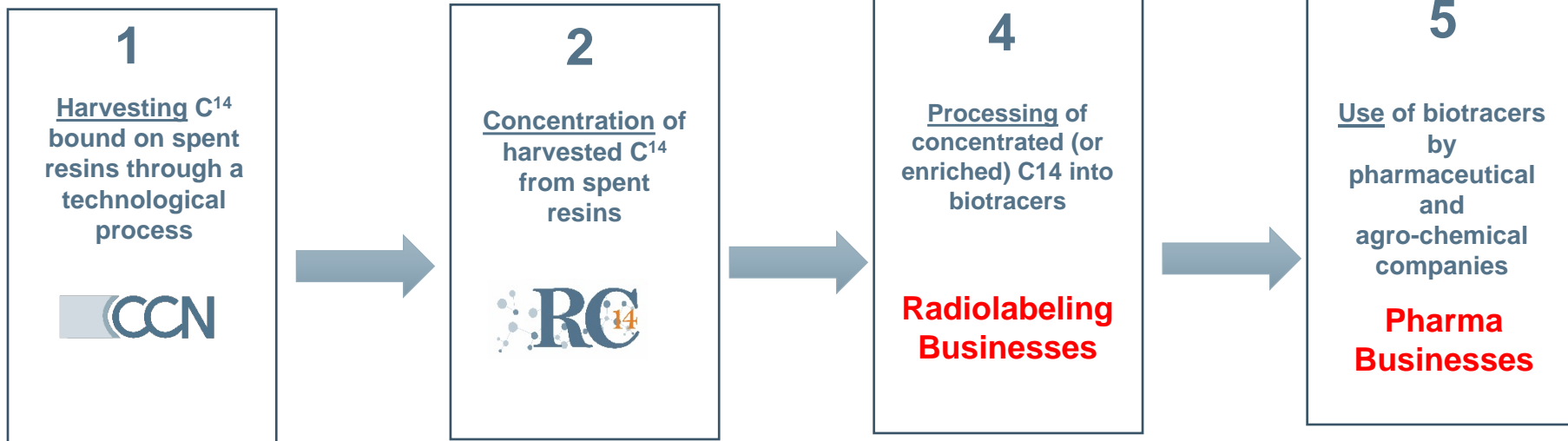
C¹⁴O₂
High Specific
Activity On
Molecular
Sieves

or



BaC¹⁴O₃
High specific
activity
Solid

The C14 Value Chain



C¹⁴ Inventory

- ▶ In Canada, inventory of C¹⁴ is over 100 years



Project RC¹⁴



Phase 1 Mid 2022

Demonstration on 1m³:

- ▶ Extraction and handling of resins
- ▶ Capture of C¹⁴
- ▶ Reduction of volume
- ▶ Duration: 2 months mid of 2022



Phase 2 2023

Commercial process C¹⁴ capture - Prime

- ▶ Harvesting and storage of C¹⁴ as a stabilized solid
- ▶ Valorize C¹⁴ to client on molecular sieve
- ▶ Volume reduction G-2 total resin inventory (300 m³) Duration : **8 years** (estimated for 1 volume reduction unit)



Phase 3 2023 - 2024

Concentration of C¹⁴

- ▶ Implementation of Concentration unit
- ▶ Commercialization to pharmaceutical and agro-chemical industry
- ▶ Inventory 20 years



**C¹⁴
supply**

**Radiolabeling
Industry**

Next Steps

- ▶ **Continue to present our project to the industry**
- ▶ **Complete Phase 1**
- ▶ **Deploy Phase 2**
- ▶ **Finance Phase 3**
 - **Secure sales for long term with commercial agreement for C14 supply to accelerate our financing**
- ▶ **C14 production - 2024**

