



# NutraCycle

The onsite upcycling of  
plant-based side-streams

An onsite upcycling and fortification service allowing food & beverage, ingredient, and feed producers to turn plant-based products into healthier, more profitable, and sustainable products.

# The Solution – NutraCycle

Onsite upcycling and fortification through NutraCycle has the potential to improve the health, profitability, and sustainability of all plant-based products.



## Fortify products

Allows all plant-based products to become healthier products, and people to consume more prebiotics in their normal diet.



## Maximise value

A service for food & beverage, ingredient, and feed companies to extract prebiotics, proteins, mono-sugars and other active ingredients.



## Total solution

A total solution to maximise the value of a side-stream hemicellulose fraction of any fruit, vegetable, cereal, legume, nut, berry, grass or seed.

The NutraCycle service is divided into three distinct phases which include a **pre-study, joint development** phase and **service support**



The pre-study is divided into a no-cost laboratory development step and low-cost pilot scale verification step. The purpose of the pre-study is to develop a process that optimises the extraction of prebiotics and other active ingredients for a target application ie. to be used in either an existing or new product or sold off-site as an ingredient.



The joint development phase includes process design & financial modelling, product formulation & safety work, and technology & partner sourcing. At the completion of the joint development phase, a decision is taken whether to move forward with the installation of a NutraCycle process based upon a complete business case.



Once a NutraCycle process is operational, Carbiotix switches focus to supporting the operation of a site. Support includes efforts to continually optimise a process, assist with the formulation of new products, provide continued guidance with regards to scientific claims and regulatory issues, and leverage key partners to ensure a profitable process.



## NutraCycle Network

The NutraCycle Network has been structured to help ensure that every NutraCycle project is successful today and into the future.



### Access to collective knowledge and experiences

Leveraging the collective knowledge and experience of all NutraCycle customers, accelerates all key steps in setting up and operating a successful and profitable onsite upcycling process.



### Access to dedicated partner network

The NutraCycle network includes dedicated partners that can assist with the sourcing of technologies, sale of products, and provide support covering a wide range of topics linked to an upcycling site.



### Avoid making common mistakes & errors

The NutraCycle Network allows customers to avoid reinventing the wheel. Making mistakes can be very costly, thus avoiding mistakes by leveraging the NutraCycle Network is a sound choice.

## Benefits of NutraCycle

NutraCycle will help you future proof your business and stay competitive in a market quickly evolving towards more healthy and sustainable products.



### Healthier products

- Fortify existing and new products with prebiotics addressing a key nutritional deficiency
- Fortify products with soluble protein and other ingredients that are bioactive
- Utilise extracted mono-sugars to replace the need for added sugars



### Increased profitability

- Higher pricing power for existing and new fortified products
- New revenue streams for ingredients and residuals sold off-site
- Lower cost for prebiotics, proteins, added sugars and other active ingredients



### More sustainable

- More sustainable upcycling model with regards to lower transport footprint
- Less waste as 100% of raw material can be utilised in products
- Opportunities to better utilise waste energy, water and other resources

## About Carbiotix

Carbiotix is an award-winning biotechnology company pioneering the onsite upcycling of plant-based side-streams. Carbiotix mission is to improve the health of people by increasing the consumption of prebiotics and other active ingredients from upcycled side-streams. Carbiotix offers one core service today called NutraCycle, an onsite upcycling and fortification service allowing food & beverage, ingredient, and feed producers to turn plant-based products into healthier, more profitable, and sustainable products.

## Why work with Carbiotix?

Carbiotix value proposition is based on extensive experience, the sharing of knowledge, and an offering that focuses on customer value generation.



### 10-years experience

We have over 10-years of experience in the extraction of prebiotics and other active ingredients from a wide variety of plant-based side-streams.



### Access to network

Customers get access to the NutraCycle Network and the collective knowledge and experiences of all NutraCycle customers & partners.



### Attractive terms

The NutraCycle service is based on attractive terms making it an easy decision to improve the health, profitability and sustainability of your product portfolio.



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