

History of Eco Treasures

From its very inception in **2006**, Eco Treasures commenced operations with the goal of using innovative and sustainable technologies to extract high quality molecules from natural raw materials. Considerable time and financial resources were invested in the research and the design of a supercritical pilot plant in the first few years. This plant was commissioned in **2008** for the design of extraction processes.

It was soon clear that Eco Treasures needed to differentiate itself from other extraction companies in order to establish its presence in the market. Based on this insight, the company developed a strategy to focus on niche markets and on the valorisation of organic secondary streams from other industries. This step led to the commercialisation of our first fruit seed oil in **2010**: raspberry seed oil.

This was quickly followed by a number of similar fruit seed oils in which the raw material was always obtained out of the pulp from the fruit juice industry. Eco Treasures currently manufactures an extensive range of fruit seed oils and products originating from the same feedstock, such as fruit powders and press cake flour.

Apart from its product range, Eco Treasures has also started offering an extensive technology portfolio. (Potential) customers who wish to isolate added value products from their organic raw materials can rely on our experience and equipment.

Eco Treasures has a strong focus on research and development of innovative extractions in which we can develop or support the process from the laboratory stage to the industrial manufacturing stage. In May **2011**, Eco Treasures was awarded the organic certification for its products and for its supercritical extraction plant. The ISO 9001:2008 certification followed in July 2011. The company was also awarded the GMP certification for animal feed by the Feed Chain Alliance in April **2015**.



Industriepark Rozen
Weverslaan 23
B-9160 Lokeren
Belgium

T +32 (0)9 367 91 55
info@ecotreasures.be
www.ecotreasures.be



Extraction from the abundance of natural resources - in a gentle, sustainable and economically viable manner.

Mission and vision

With its natural extracts and extraction technology, Eco Treasures aims to provide high value and high quality products and services.

Flexibility, reliability and technological support are important key words in this regard. The raw materials we use comprise primary raw materials as well as secondary streams from other processes or industries.

Product expertise

- Development of industrial extraction processes for third parties.
- Quality and yield comparisons between various extraction technologies.
- Minimising and/or preventing waste through new applications of residual streams, for various sectors: cosmetics, food, feed, materials, etc.
- Contract manufacturing

Technological expertise

- Optimisation of extraction and purification processes: increasing yields, optimising energy consumption.
- Designing pilot and industrial plants.
- Application of a wide range of technologies:
 - Supercritical CO₂ extraction
 - Cold pressing
 - Water/alcoholic extractions
 - Spray drying



Eco Treasures developed a HACCP system that ensures the safety of its products and services. Our ISO 9001:2008 certification provides the additional dimension of quality assurance.

Team skills

The profile of Eco Treasures employees combines the needs of an innovative R&D organisation with the requirements of an efficient, quality-oriented manufacturing company.

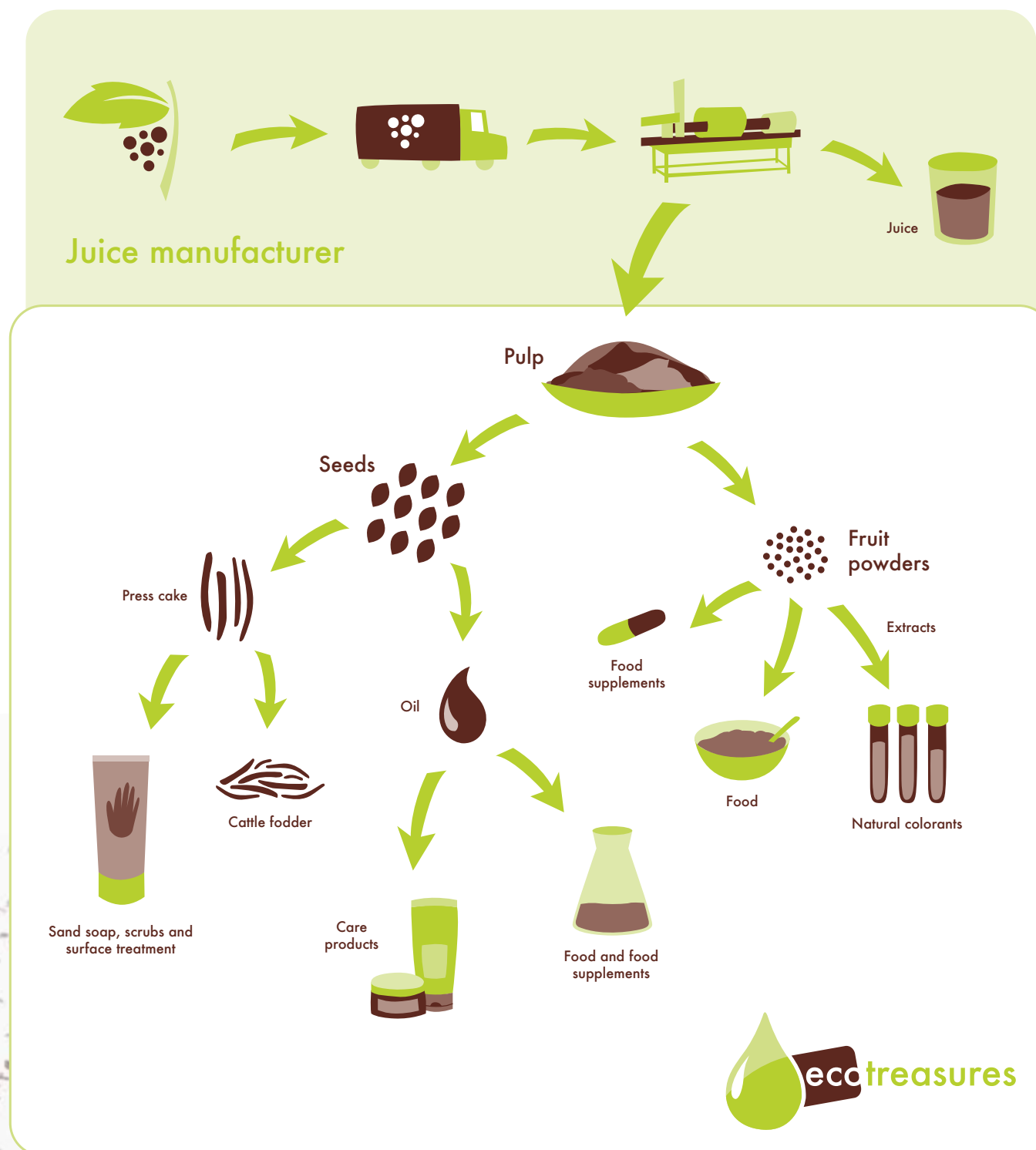
Our team includes engineers, chemists and process operators with experience and know-how in the technical and scientific field. Together with our logistics and quality support, we ensure that we efficiently manufacture and supply high quality products.

The skills of our engineers and scientists also make it possible to develop extraction processes on a laboratory scale and to subsequently upscale them to industrial production volumes.

This is achieved while keeping all options open for our clients. This ranges from using our facilities for production of the extracts to designing new production units on customer demand. All this is done under the strictest confidentiality: with Eco Treasures, our customers know their process is in safe hands.

The life of a fruit seed

Eco Treasures developed an integrated process to produce fruit seed oils using pulp ("side stream"), received from the fruit processing industry, as a raw material. The process valorises each fraction of the raw material for a wide variety of applications, eliminating or minimising the quantity of waste.



Own products

Eco Treasures has specialised in the production of a wide range of **fruit seed oils**. These are niche vegetable oils obtained by cold pressing mainly red berry seeds. Our careful selection of raw materials ensures that we manufacture high quality oils with applications in cosmetics, food and food supplements.

We also recover and market **fruit pulp** from these berries. It contains high concentrations of polyphenols, proanthocyanidins or PAC's and can be used in bakery products, food supplements, natural colorants, etc.

The **press cakes** that remain after pressing the seeds also contain high concentrations of antioxidants, and are sold as flour.

In addition to these fruit seed oils, Eco Treasures also markets other cold pressed oils such as black cumin seed oil.



Services

The core knowledge and experience of Eco Treasures lies in supercritical CO₂ extraction; a green extraction technology that is exceptionally well suited to extract molecules with high added value, from natural resources. Throughout the years, our know-how expanded with other extraction and purification techniques.

Eco Treasures would be happy to put its know-how and equipment at the disposal of its customers to develop their extraction processes. We want to be partners in the whole process, from the launch of the project, the development of the process on a laboratory scale, through to the final industrial and commercial production.

Our experience and the use of pilot plants ensure a smooth upscaling from the laboratory stage to an economic and sustainable process.

Third parties can also use our presses to process their seeds into high quality oils. Hemp, rapeseed, chia, cacao, etc... have also been successfully processed in this manner.