





Duynie Group

Creating new value since 1968

A business perspective on circularity



Nicole Timmerman

Business Development Circular Agrifood

Duynie Group

Part of arable farmer cooperative Royal Cosun



Cosun Facts 2022

- 8,417 members
- Founded in 1896
- 4,407 employees
- > € 2.2 bn turnover

Surrounding icons: + Happy People, + Transparant, + Healthy Earth, + Circulair, + Proud Farmers, Toekomstbestendige, duurzame keten



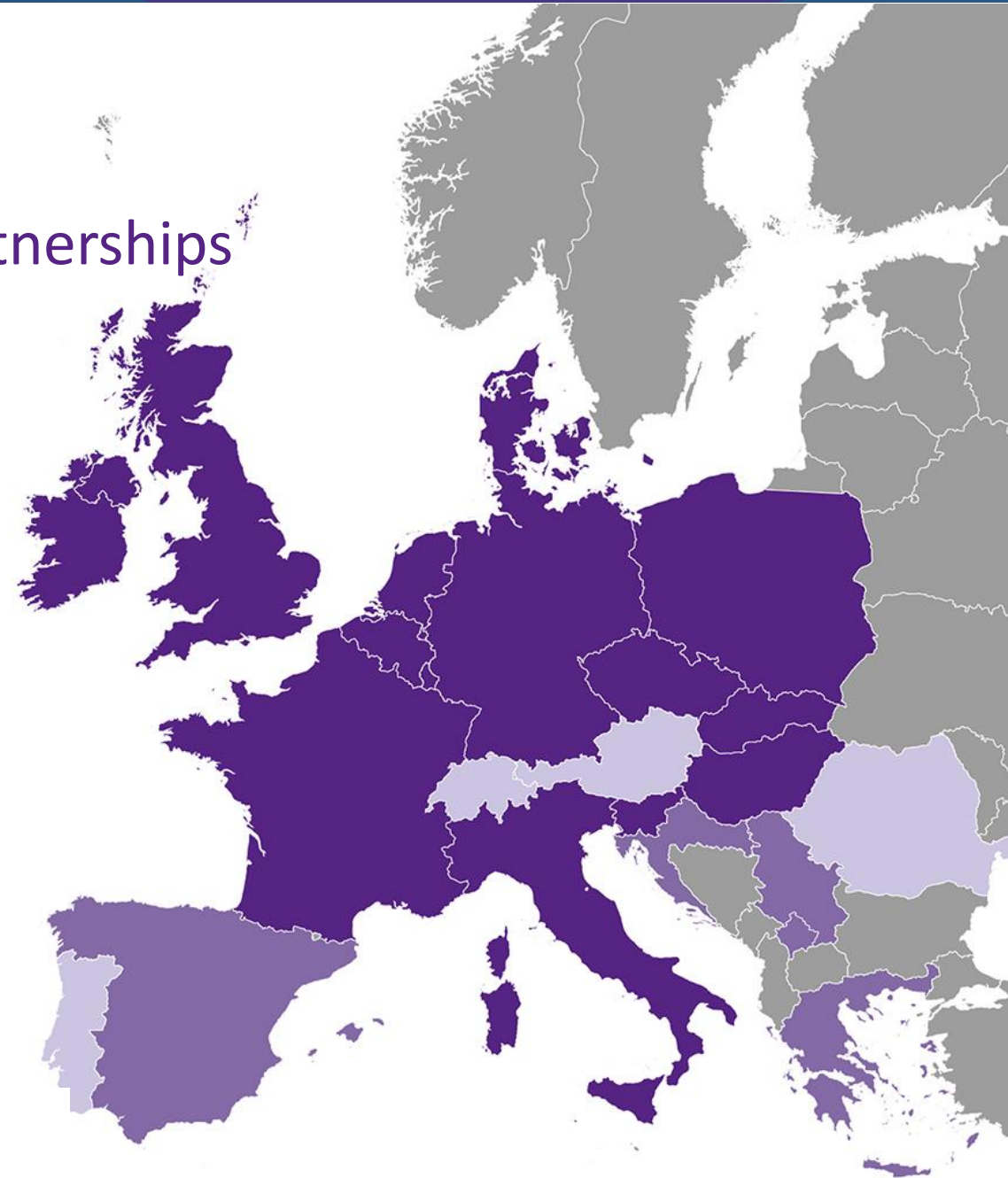
About Duynie Group

Over 50 years of innovations built on partnerships



5 million tons

- Full service
- Starting up
- Scheduled start up

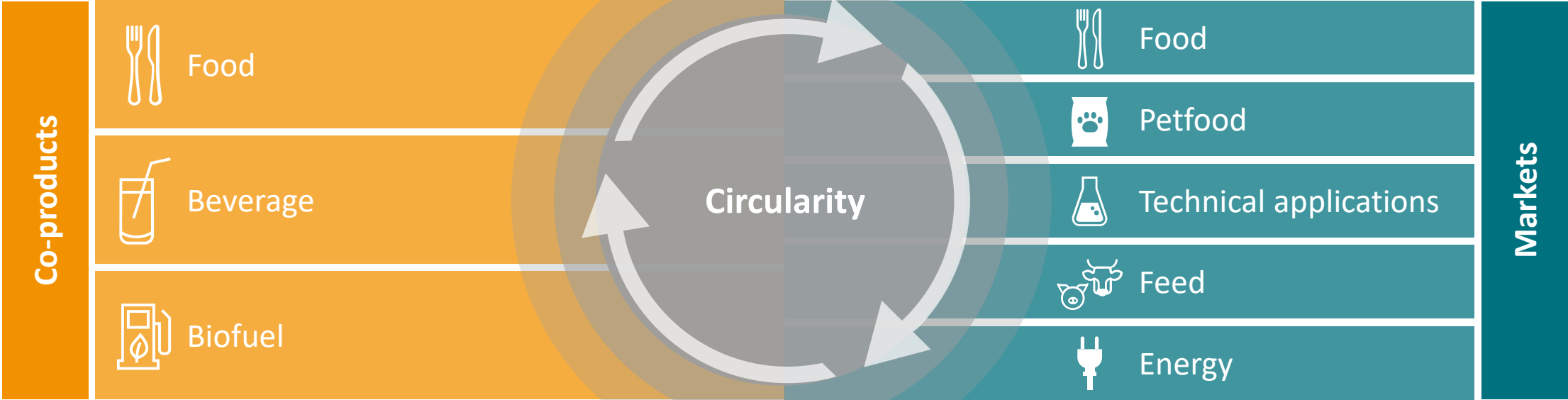


Creating new value | A circular business model

From co-products of food, beverage and biofuel industry

Suppliers

Customers



Creating new value | French fries co-product supply chain



APPLICATION
Maximising your co-product profit



Feed



Feed



Biomass



Starch



Petfood



Feed



Green energy



Feed



Biomass

CO-PRODUCT
Ensuring your production continuity



Feed potatoes



Potato steam peels



Sidestream starch



Potato scraps



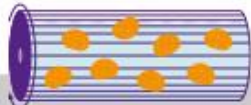
Heat



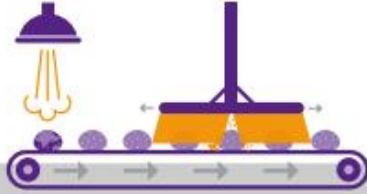
Frozen fries



Unloading



Wet-washing



Steam peeling

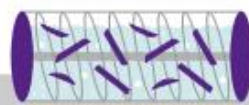
Brushing



Cutting

Washing

Sorting



Blanching



Drying



Frying



French fries

INPUT



Potatoes



Water



Water



Water



Water



Boiling oil

www.duyniegroupp.com

Your partner in reaching sustainability targets

Circularity and value chain emissions



Our impact

Enable a circular agrifoodchain by **collaboration**

Sustainable feed, circular food: low carbon meat and dairy



Customer example
Duynie Feed



Brew a better world: splitting brewers' grains into plant protein



Supplier Innovation
Duynie Ingredients

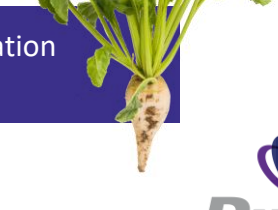


A ROYAL COSUN COMPANY

Pulp4paper: sustainable paper based on beet pulp



Supplier Innovation
Novidon



Sustainable feed, circular food | Low carbon meat and dairy





The sustainable choice is the profitable choice

Co-products in rations can significantly reduce feed attributed CO₂-eq/kg milk



Enabling a circular agrifood chain by **collaboration**

A few of our initiatives on circularity & value chain emissions through the meat and dairy value chain



Our impact

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Supplier Innovation
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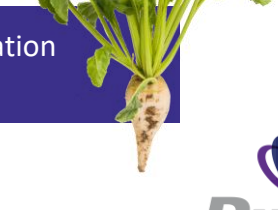


A ROYAL COSUN COMPANY

Pulp4paper: sustainable paper based on beet pulp



Supplier Innovation
Novidon



Enabling a circular agrifood chain by **innovation**

From Brewers' Spent Grain



A ROYAL COSUN COMPANY

Key sustainability* benefits of Brewers' Spent Grains Protein

Upcycled
ingredient



Locally
sourced



Locally
produced



Low in
water use



Low in land
use



Low carbon
footprint



**An extensive LCA analyses has been carried out by an external, independent company. Numbers are compared with alternative plant-based ingredients. No rights can be derived*

 Blonk



Creating new value from plant-based co-products

Your partner in enabling a circular agri-food system



Ensuring your
production
continuity



Maximising your
co-product profit



Reducing your
environment
impact



Creating new value | Duynie Group

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