

Renewable • Reusable • recycable – Bioplastics as
part of the circular economy

Bioplastic Conference 2020, Copenhagen
27th of February, 2020

- **FKuR – plastics as passion**
- Solutions for a circular economy
- Latest developments

The Bioplastic Specialist

Development • Production • Distribution

- Medium-sized, private group of companies with the aim of developing, producing and distributing innovative plastics
- Core business are the development and production of biodegradable and biobased plastics, as well as plastic specialties such as TPE
- Customized plastic solutions
- Distribution of biopolymers and specialties
- Co-operation with Fraunhofer UMSICHT, Oberhausen, in the area of strategic material development

FKuR Portfolio and Distribution:



PLA-Blends
for extrusion and
injection molding



**Cellulose
Compounds**
for injection
molding



**Wood fibre
Compounds**
for extrusion and
injection molding



**Tailor-made
Green PE
Compounds**



Biobased TPE
for extrusion and
injection molding



Authorized distribution
partner in parts of
Europe*, USA and
Canada



Cooperation with
FENC Corp. for
their biobased PET

* Austria, Belgium, Denmark, Finland, Germany, Israel, Italy, Luxemburg, Netherlands, Norway, Sweden, Switzerland

FKuR - Plastics as passion

Full service-supplier:

- Technical support
- Marketing support
- Tailor made modifications, e.g. based on **I'm green** - Polyethylene

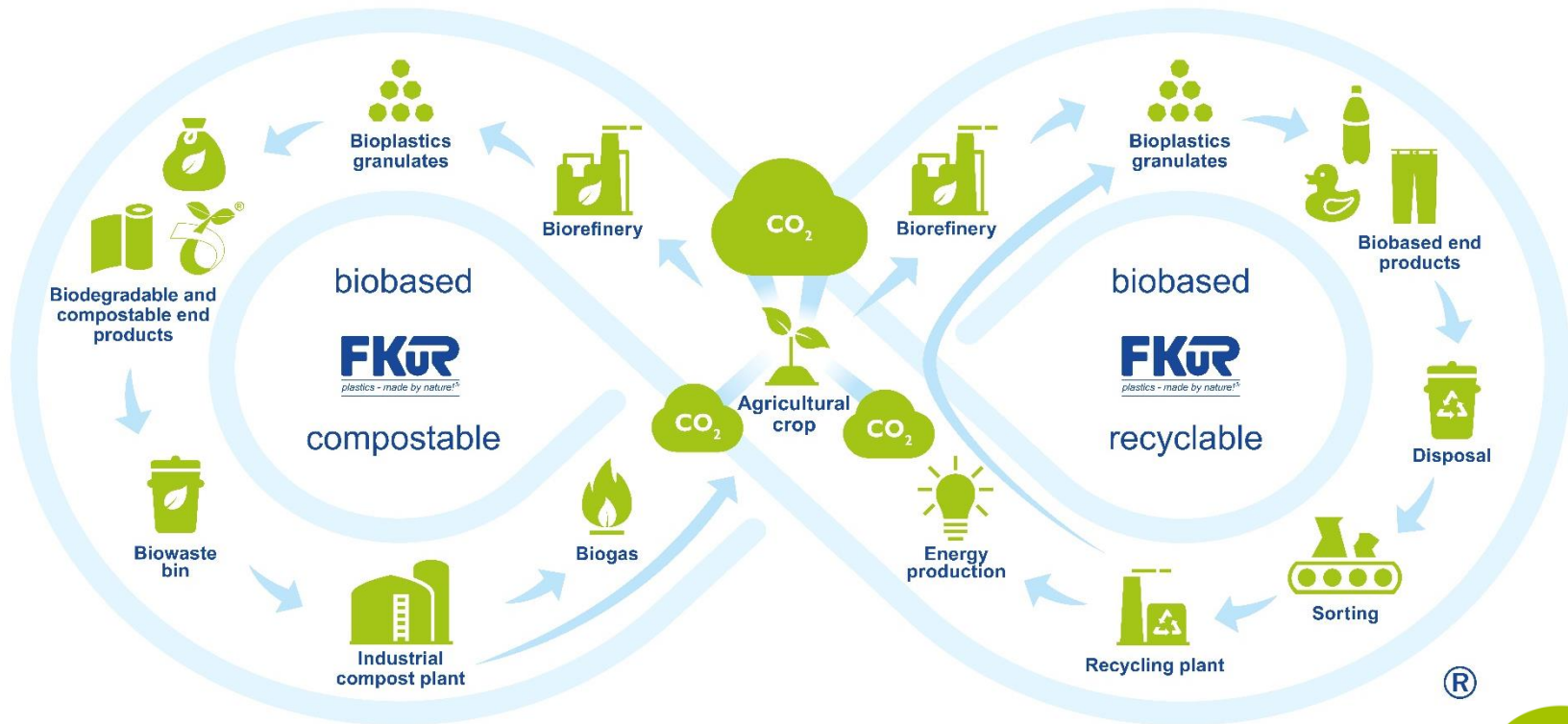


- or on basis of Bio-Flex® compositions

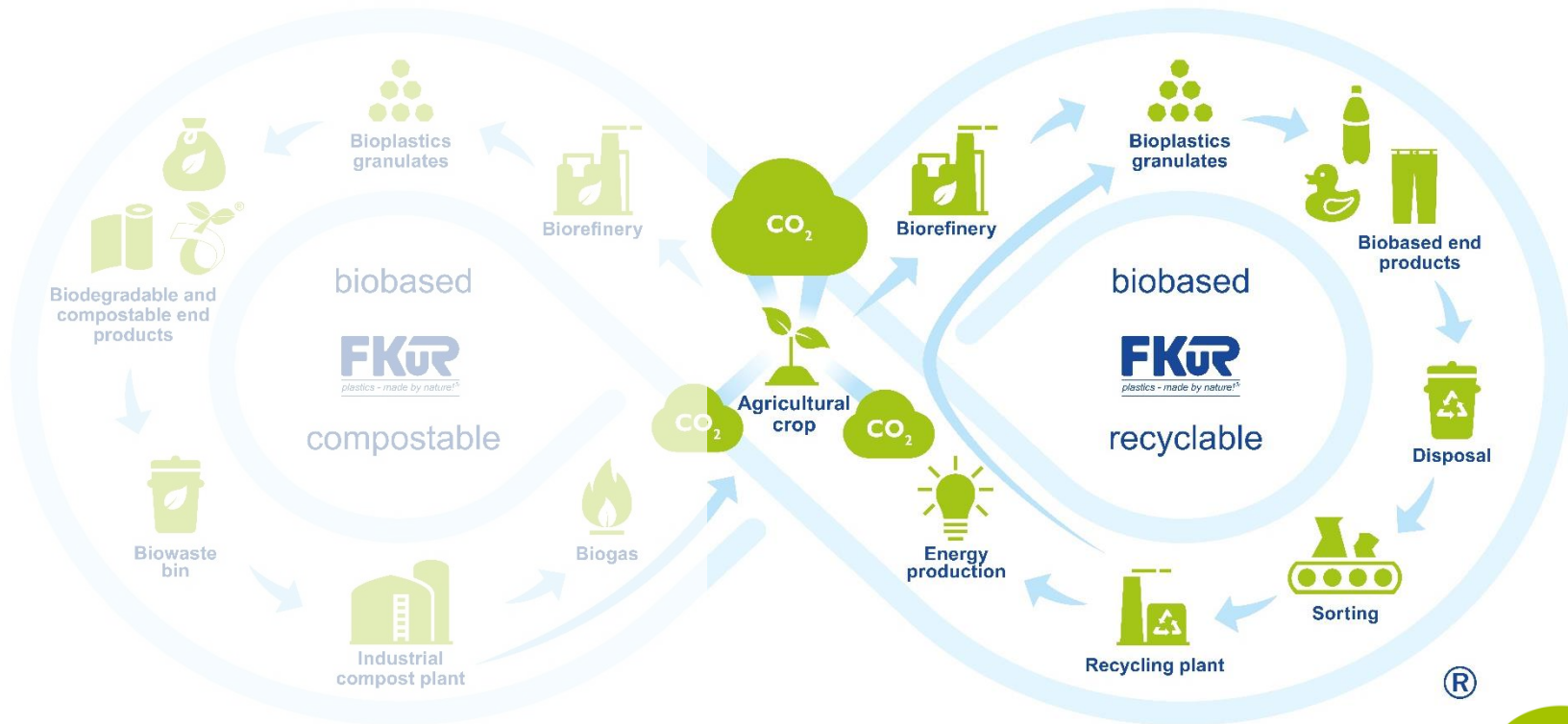


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Infinite Cycle of Bioplastics



Infinite Cycle of Bioplastics

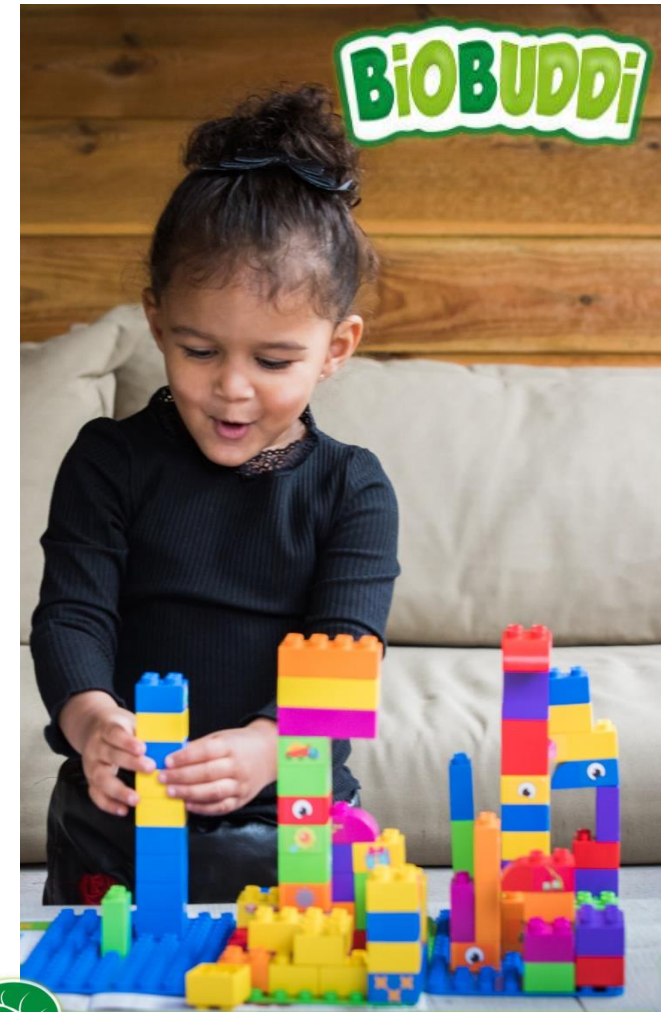


Solutions for a circular economy

BIOBUDDI – Biobased Building Blocks



- In compliance with food and toy legislations
- > 95% biobased carbon content
- Made in the Netherlands
- Winner of the “*Baby Innovation Green Award 2019*”



Solutions for a circular economy

dantoy – I'm green™ -line

- In compliance with food and toy legislations
- > 95% biobased carbon content
- Manufactured locally in Hobro, Denmark



BIOplastic
Made from sugarcane



Speick Organic 3.0

- Holistic sustainable packaging concept (mono-material)
- 'Perfect Product Fit' (packaging and content complement each other optimally)
- Green PE (Bio-PE) replaces all materials
- No differences in production



BE O “Damn Good Plastic Bottle”

- Bottle: Green PE (Bio-PE)
- Sealing: Terraprene® (Bio-TPE)
- Modular, space-saving design
- Favorable carbon footprint
- Fully recyclable
- Winner of the “*Green Product Award 2019*”

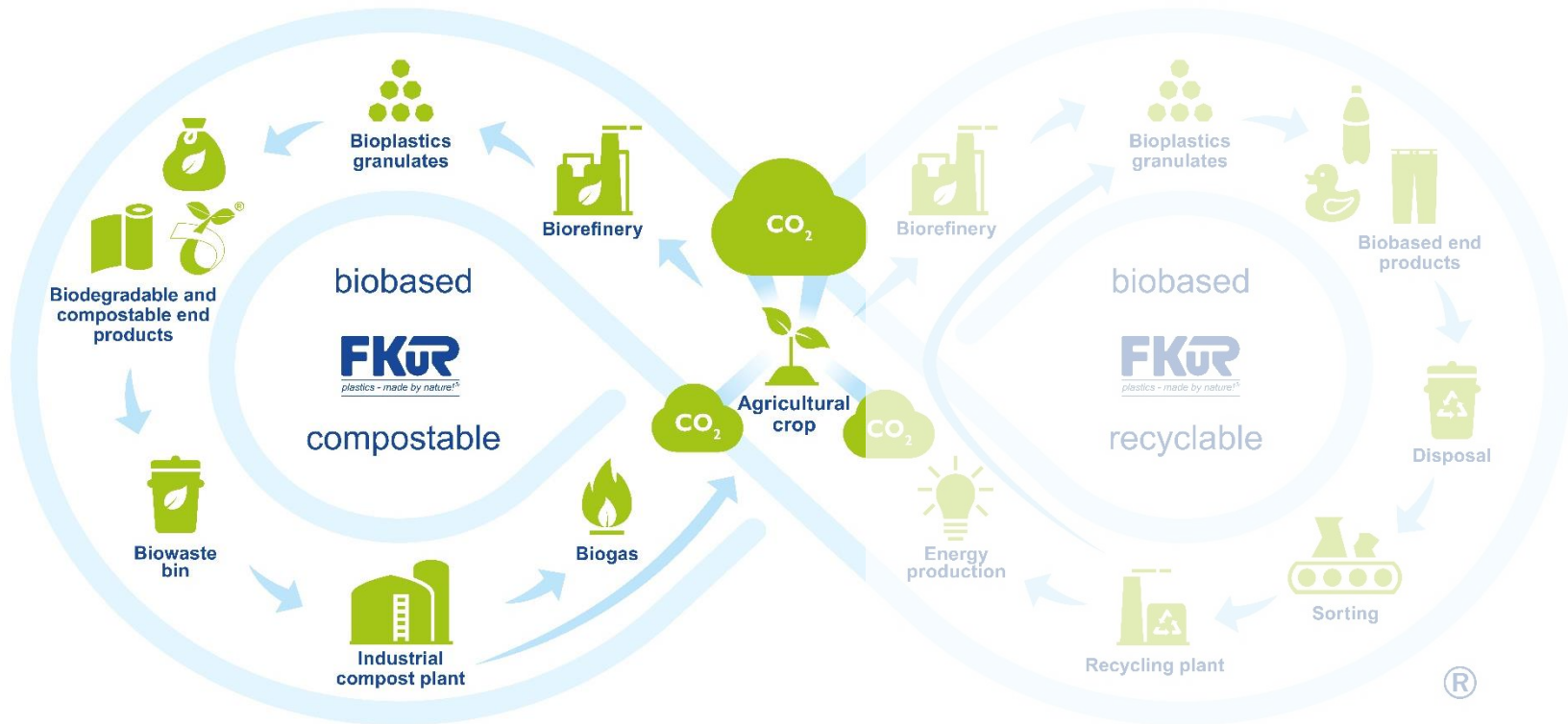


Light my fire – MEALKIT™ BIO

- Modular, space-saving design
- Made from durable, natural fibre reinforced material Terralene® WF
- Saving fossil resources
- Favorable carbon footprint



Infinite Cycle of Bioplastics



Tree protection made from Bio-Flex®

- Characteristics comparable to fossil polymers used so far
- Product remains stable during the period of use
- Fragmented plastic particles biodegrade over time
- No contamination of the soil by durable plastics



Mulch film made from Bio-Flex®

- Certified compostable and biodegradable according to EN 13432 and ASTM D 6400
- Excellent ratio between degradation & performance
- Cost-effective: no collection and disposal costs for film
- Excellent resistance to moisture
- Replacement of herbicides by high weed suppression



Organic waste bags made from Bio-Flex®

- Certified compostable and biodegradable according to EN 13432 and ASTM D 6400
- Certified home compostable “OK Compost HOME” by TÜV Austria
- Clean, dry and low-odor collection of organic household waste
- Increase in the quantity and quality of separated bio waste



- FKuR – plastics as passion
- Solutions for a circular economy
- **Latest developments**

Latest developments

Terraprene® SI 370 75A

- Oil-free biopolyester based TPE
- Strong bonding with FKUR's Bio-Flex® S-series
- bio-content > 60%



SUNSTAR

Interbros GmbH

Terralene® rPP 3509

- Terralene® r –series combine biobased and recycled materials
- No share of virgin, fossil based polymers
- 33% renewable PE
- 66% post industrial or post consumer PP





**Nature as Guide Line
Plastics as Passion
Customers as Partners**

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