



CARBAFIN IS

a collaborative research project and innovation action
funded by the European Union in the framework of Horizon 2020.

CARBAFIN WILL ESTABLISH

a phosphorylase based platform for sustainable production of functional
glucosides from sucrose.

CARBAFIN AIMS AT

a new value chain for utilization of surplus sugar beet biomass in the EU
by converting sucrose moieties, glucose and fructose, separately into
value-added products at industrial scale.

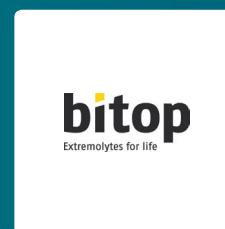
CARBAFIN PROVIDES

new glycosylated products for applications in food and feed,
cosmetics, detergents and polymer sectors and fructose as
precursor of the platform chemical 5-hydroxymethylfurfural (HMF).

www.carbafin.eu



CARBAFIN PARTNERS



This project has received funding from the European Union's
Horizon 2020 research and innovation programme under
grant agreement No 761030.

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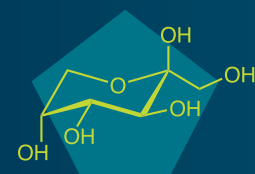
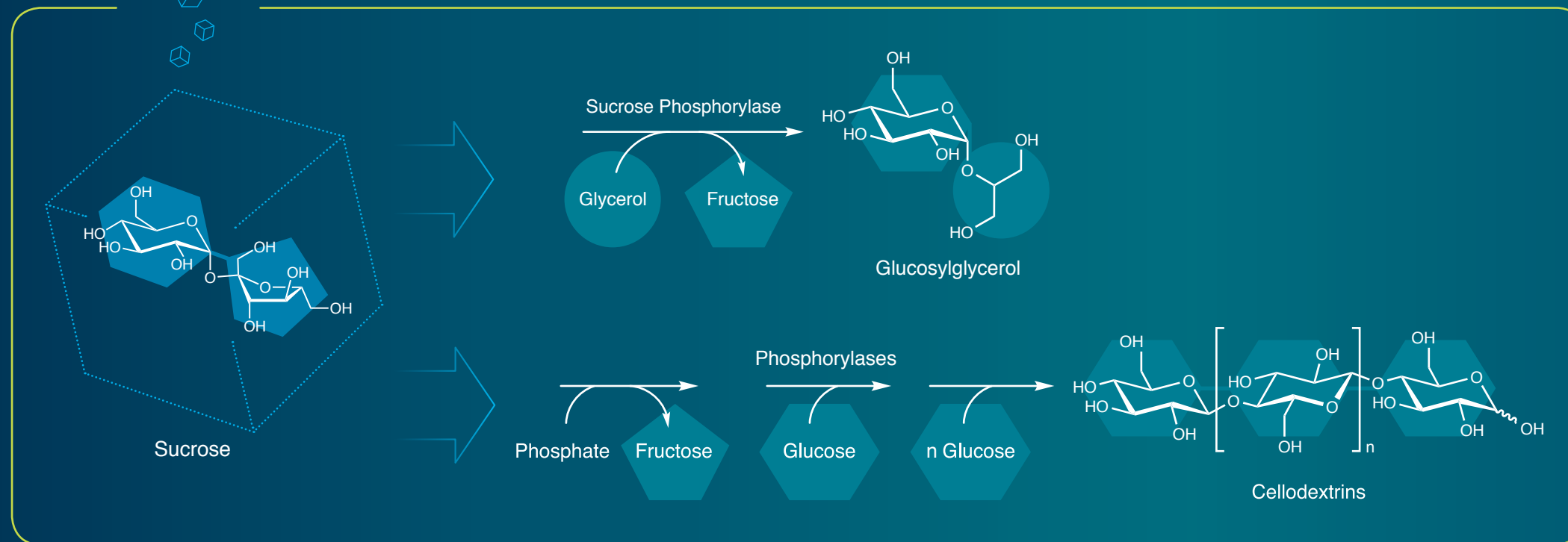


**Developing a glycosylation platform
technology to an industrial level**



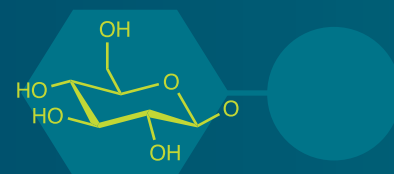
CARBAFIN's INTEGRATED BIOCATALYTIC GLYCOSYLATION TECHNOLOGY

The glucoside products of **CARBAFIN** (glucosylglycerol, cellodextrin) are widely used for nutrition and feed, cosmetics and detergents. Fructose is exploited in the production of 5-hydroxymethylfurfural (HMF), a versatile chemical building block currently considered for making bio-based plastics.



FRUCTOSE

Calorie-reduced food and beverages, precursor for HMF (biopolymers resins, additives, pharma, bioplastics)



FUNCTIONAL GLUCOSIDES

Food, feed, cosmetics, detergents, prebiotics and dietary fibres, humectants



CARBAFIN contributes to the establishment of new, fully renewables-based value chains across the European industries, linking the sugar industry sector to the cosmetics, chemicals, polymer and detergents sectors and strengthening the sugar industries' role in food and feed. It supports the efficient cascading use of sugar beet-derived sucrose in combination with biomass-derived base chemicals (e.g. glycerol, glucose).

DURATION

January 2018 – December 2021

BUDGET

EUR 5.3 mio

CALL

H2020-NMBP-BIOTEC-06-2017

WEBSITE & SOCIAL MEDIA

www.carbafin.eu
www.facebook.com/carbafin
www.linkedin.com/company/carbafin
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