VALORISATION CHAIN 4 Bulk replacement in growing media



Horti-BlueC

European Regional Development Fund

2 Seas Mers Zeeën

Watch the video, read the scientific paper, try out the decision tool or check the website for more relevant information



This project has received funding from the Interreg 2 Seas programme 2014-2020 co-funded by the European Regional Development Fund under subsidy contract No 2S03-046. Both the Province of Antwerp and the Province of East-Flanders are co-funding ILVO for this project.

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VALORISATION CHAIN 4 Horti-Blue Bulk replacement in growing 2 Seas Mers Zeeën media Horti-BlueC European Regional Development Fund Replacement of virgin raw Waste Treatment: processing Shellfish Exhaust Plant materials waste CO2 fibers 🔍 media Woody fraction of green waste Defiberisation Medium for plant rooting Plant fibers **BASELINE SCENARIO** Substrates for strawberry cultivation are composed of peat/coir mixtures. Gasification Fertilizer Heat **NEW SOLUTION 2** Peat and coir can be partially replaced by green compost, bark compost, biochar and wood fiber in growing media **Disease suppression** blends for strawberry. Watch the video, read the scientific paper, try out the decision tool or check the website for more relevant information STRENGTHS **OPPORTUNITIES** WEAKNESSES THREATS Local production of substrates Producing fibers can be energy • Future development of growth Grower's habits need to change Low willingness of growers to sensors to assist growers Possibility to reuse substrates intensive EU green deal strategy in second cultivation According to recent study switch to unknown substrates Methodology to assess LCA impacts of growing media is (PEFCR methodology), RPP Probably higher costs than Possibility to recycle substrates white peat and coir mixes can current alternatives Changes in grower's practices ready and in accordance with are relatively small have lower CO2 impact the PEFCR methodology Risk for human pathogens on • End-of-life scenarios may be substrates Composts quality can vary in more promising Some materials may allow for batches New substrates may be heavier. fertilizer or lime replacement. or may increase the microbial having a bigger impact on transport costs and emissions biomass in the blend Results for crop vield not significantly better than the

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baseline

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