

Welcome in Raamsdonksveer Natural fiber Application Center



Biobased handelsmissie Cirkellab
15 juni 2017

Initiative of

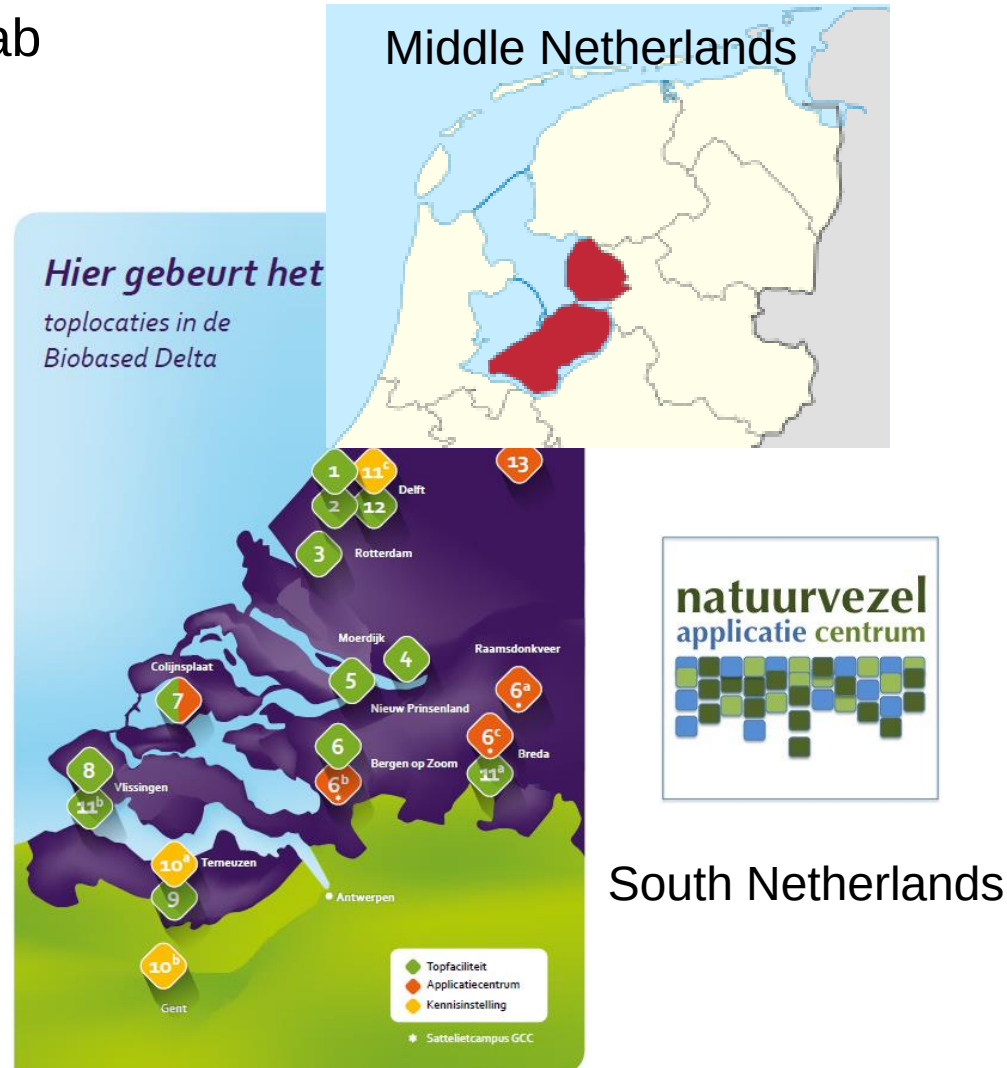


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Innovation director

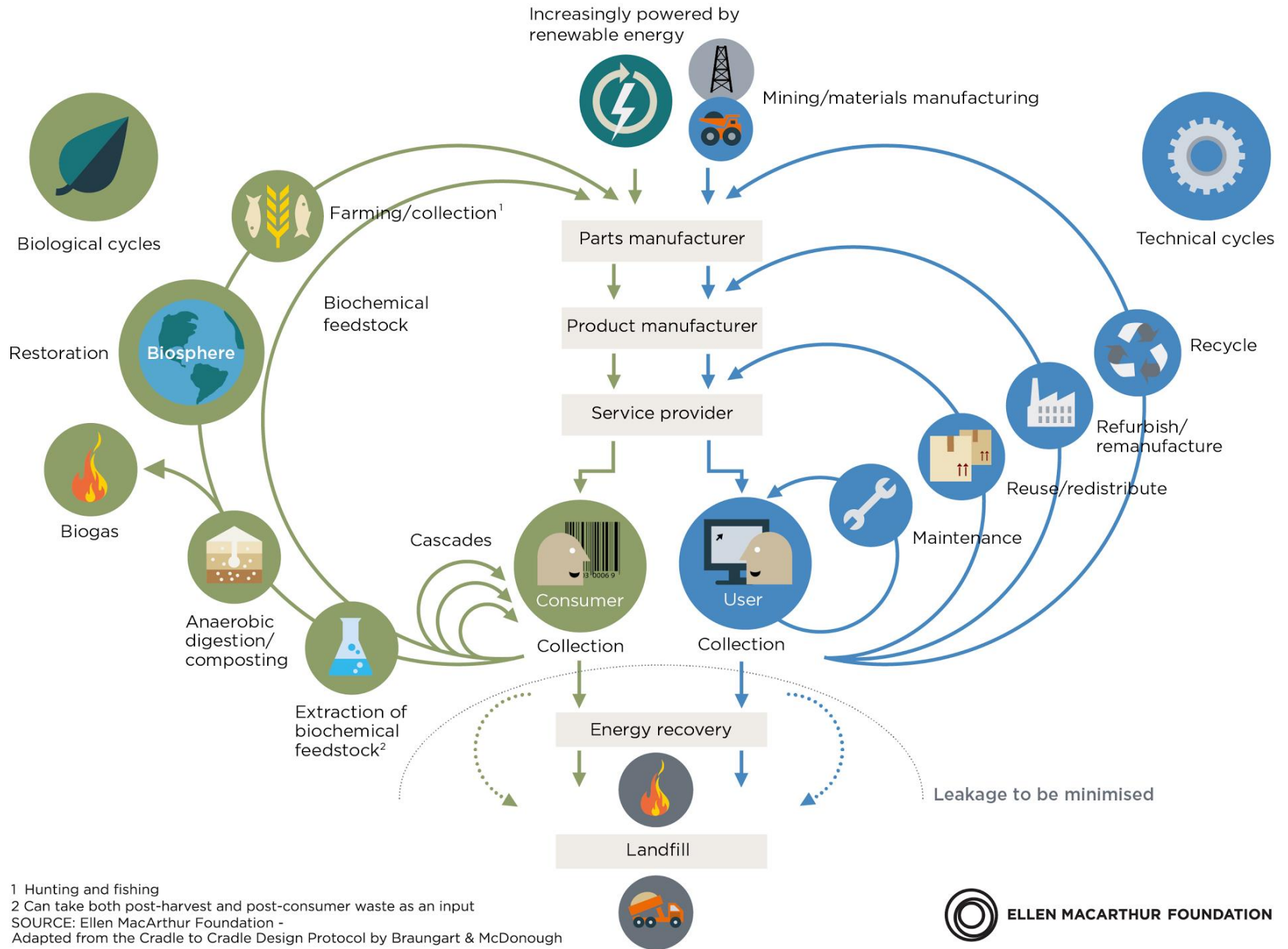
Participant



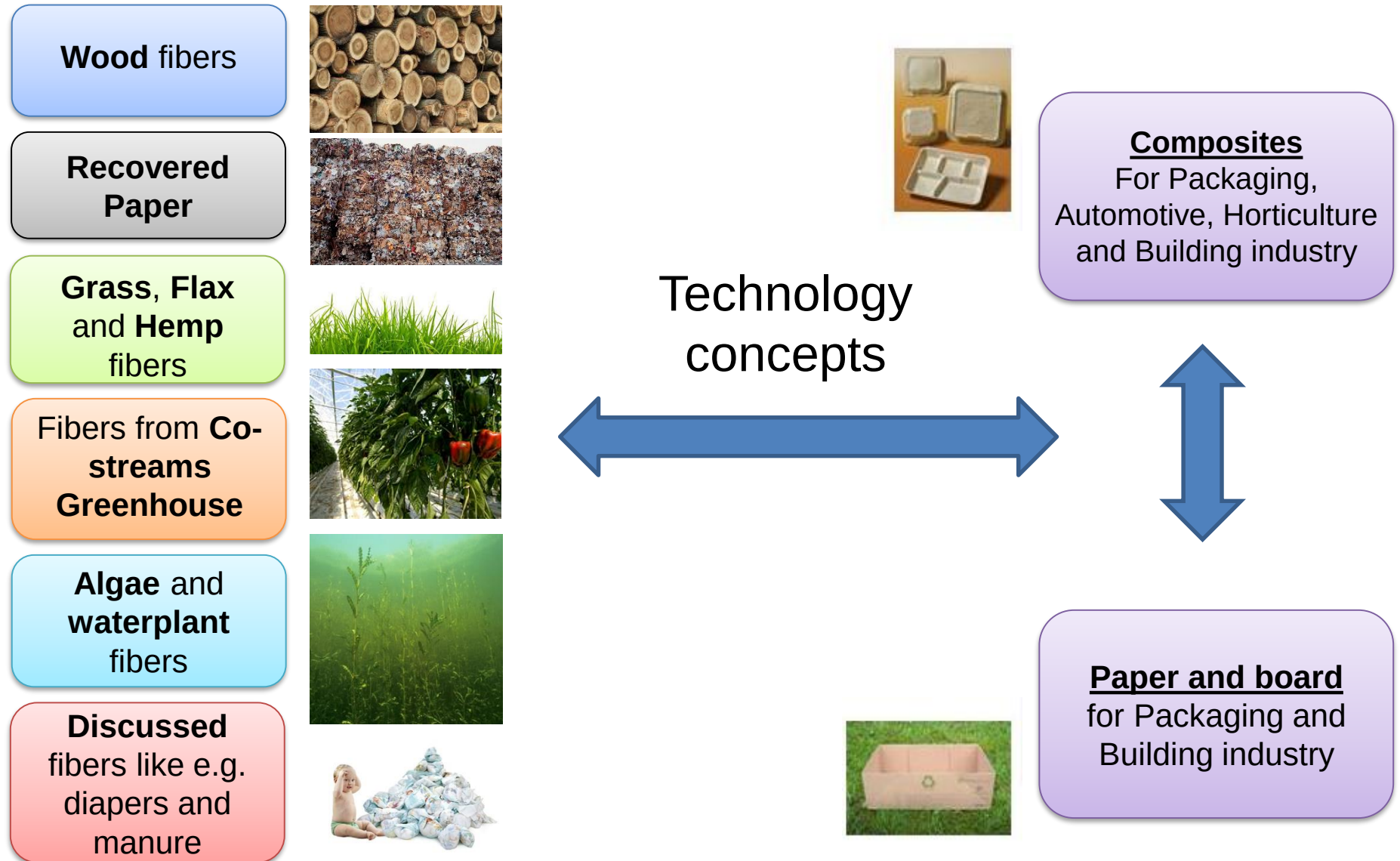
Esther Stapper
Director



CIRCULAR ECONOMY - *an industrial system that is restorative by design*

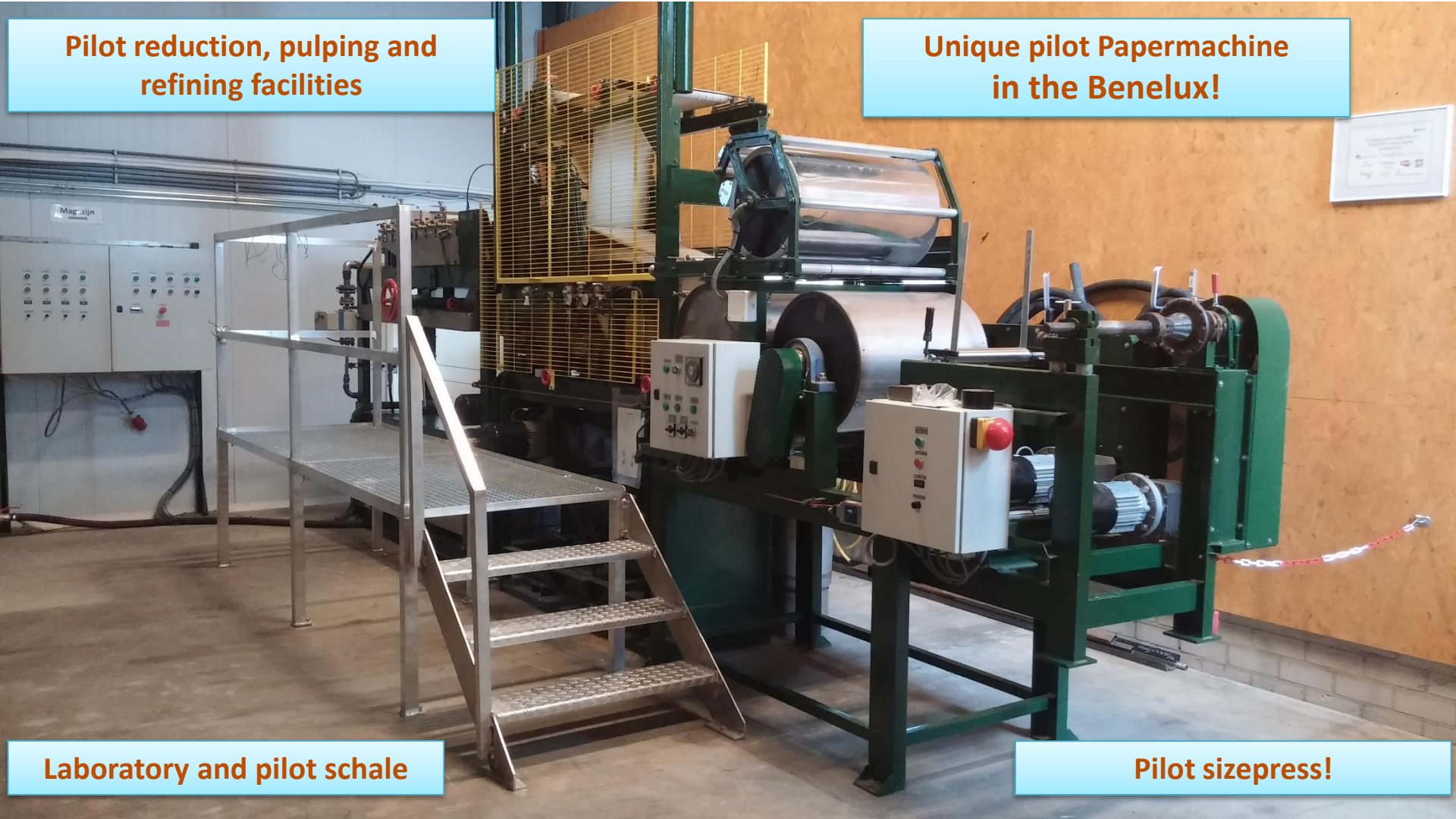


“Biobased technology concepts for lignocellulosic fiber based performance materials”



**Pilot reduction, pulping and
refining facilities**

**Unique pilot Papermachine
in the Benelux!**



Laboratory and pilot scale

Pilot size press!

From development to valorization





Biobased paper and board

Composite example developments biobased basis of OWN grass first



	Thermoset	Thermoplastic
Binder bio	X	X
Binder synthetic (or inorganic)	X	X
Fiber bio	X	X
Fiber synthetic	X	X



Biobased & CE
From mowing to
harvest!

From Compounding technology towards NFPC



Horticulture, on the way to new business and added value ...

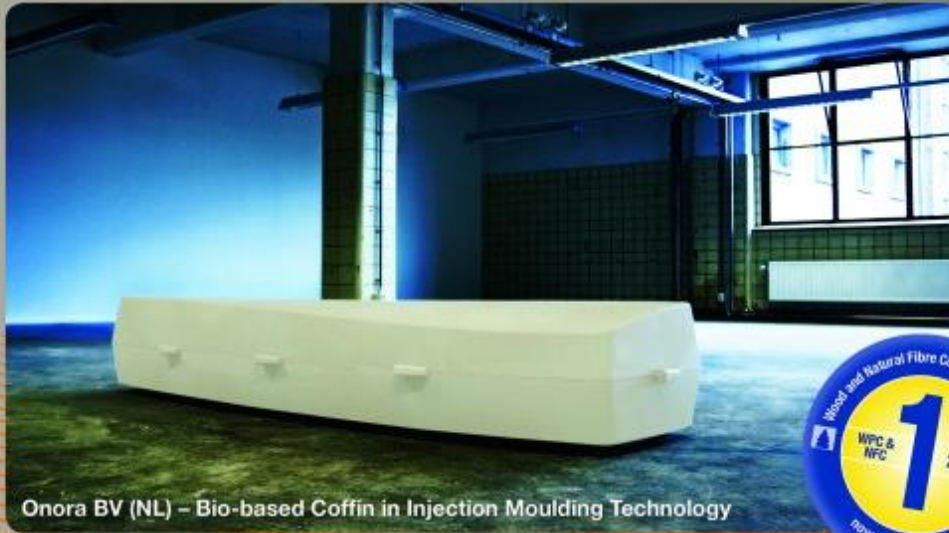


Total cost of ownership (indicatie)

Case: Park of 125 m2; 1000 pots.	Standard Polyolefin (PP) Pot Typical costs (€/pot)	Bio Pot Solution Typical costs (€/pot) Actual	Bio Pot Solution Typical costs (€/pot) Within 2 years
Cost	0,06	0,24	0,20
Handling of waste	0,03	0,00	0,00
More production/hour		-0,16	-0,16
Less or no soil improver and handling	0,25	0,05	0,05
*Shadow price	0,05	-	-
Total costs / pot application	0,39	0,11	0,09

**Indication based on NIBE shadow price methodology*

Winners of “The Wood and Natural Fibre Composite Award 2015”



Onora BV (NL) – Bio-based Coffin in Injection Moulding Technology



Millvision BV (NL)
– Biocomposite with Agro Rest Fibers



Aqvacomp Oy & Flaxwood Oy (FI) – Cellulose Fibre reinforced Polystyrene for Music Instruments



Composiet patent (Paper) fibers en Thermoplastic polymers (2016)

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HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,
MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,
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- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(54) Title: REINFORCED THERMOPLASTIC POLYMER COMPOSITION

(57) Abstract: The present invention relates to a process for making a thermoplastic composition, comprising the steps of: a) melt mixing a first thermoplastic polymer and a paper product comprising a mixture of cellulose fibers and a second thermoplastic polymer.



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Biobased guardrail

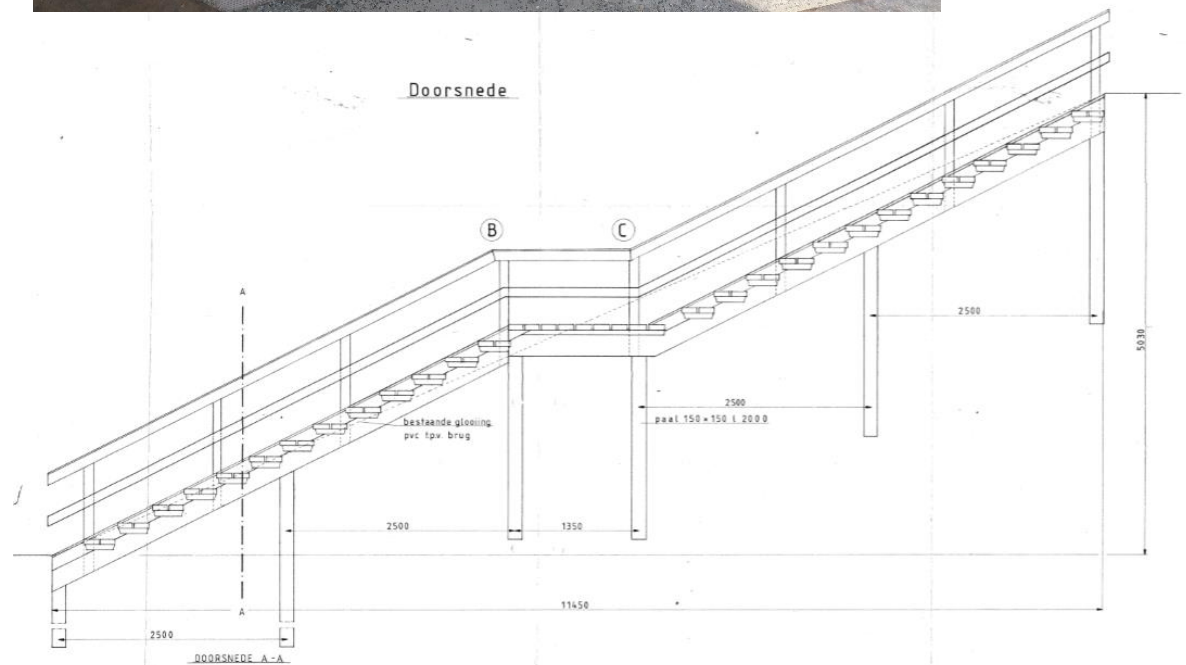


Rijkswaterstaat
Ministerie van Infrastructuur en Milieu

Biobased revetment



Stairs in Halsteren (constructive)



Framing poles Biesbosch, Noordwaard (2016)



Biobased bench and information board



Biobased bench and information board



Gemeente Breda



Bruinisse



Rijkswaterstaat
Ministerie van Infrastructuur en Milieu



Gemeente
Geertruidenberg

Biobased building board



Biobased kubus



Zoomlandviaduct, projects and impact are getting bigger..





First biobased viaduct in the world (Bergen op Zoom)!



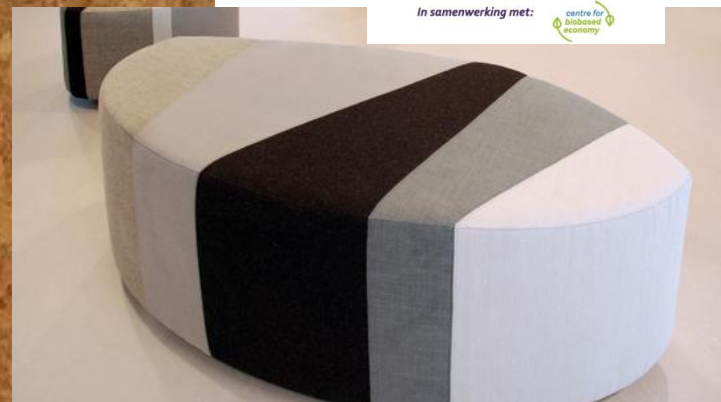
Biobased verbouwing Avans



Powered by:
avans
hogeschool



In samenwerking met:





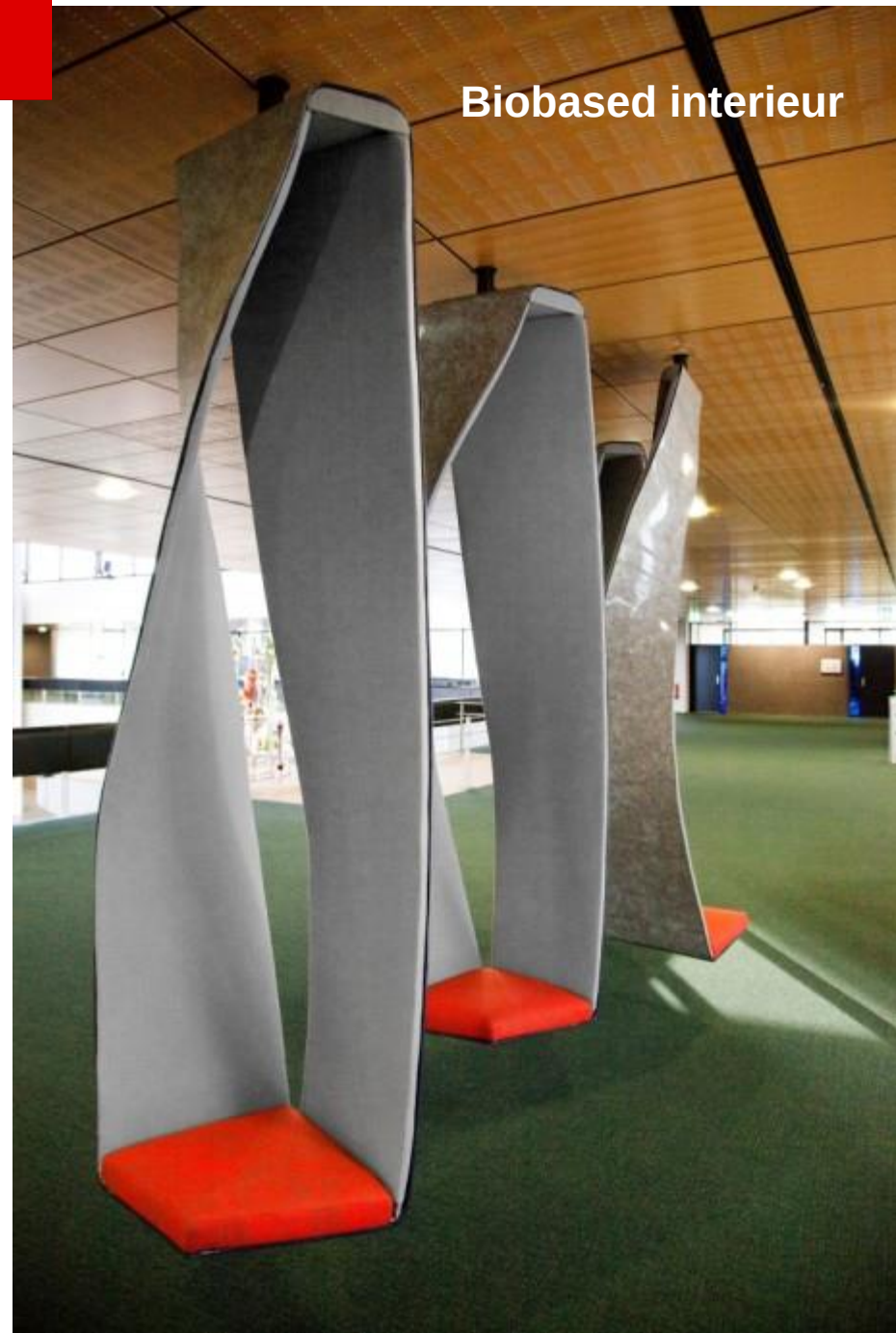




Provincie Noord-Brabant



Biobased interieur





Visit royal couple and Biobased Meeting with Millvision B.V.



2016
Markiezenhof Bergen
op Zoom

2017
Trade mission
Leipzig/Leuna



Bedankt voor jullie aandacht Zijn er vragen?

Jullie zijn

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