

Biosynthetics E-Learning Series Part 2: Feedstock Sustainability Standards

Roundtable for Sustainable Biomaterials (RSB)

July 9, 2019 at 10:30 EDT/ 16:30 CEST (45 minutes)



Agenda



- Welcome
- Presentation by RSB
- Interactive part Q&A
- Summary





Welcome to the Biosynthetics E-learning Series





Biosynthetics can play an important role in **replacing fossil-based resources** with renewable feedstock. At the same time, there are **various sustainability challenges** also associated with the use of renewable feedstock.



The Biosynthetics E-Learning Series will have a closer look at different **sustainability standards** which may provide solutions in order to transition and scale the uptake of more sustainable biosynthetics.

Introduction of today's guest speaker



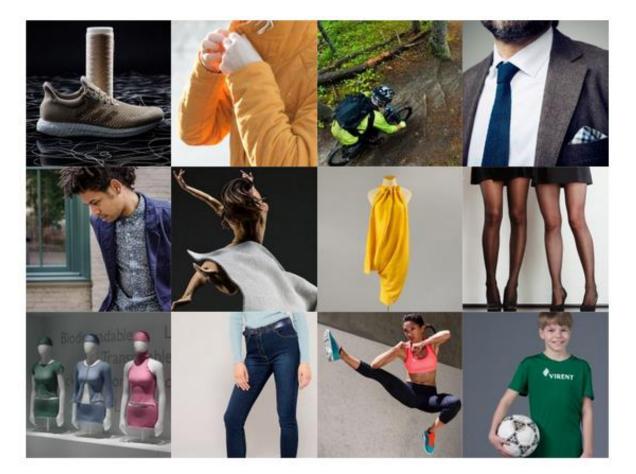


Elena Schmidt Standards Director



Learning More About YOU – Quick Polls





- 1. What type of company do you work for?
- 2. How would you assess your expertise with regard to feedstock sustainability standards for biosynthetics?
- 3. Is your company buying and/or selling biosynthetics?

https://aboutbiosynthetics.org/



RSB: An Introduction

Elena Schmidt | **Standards Director** | Roundtable on Sustainable Biomaterials

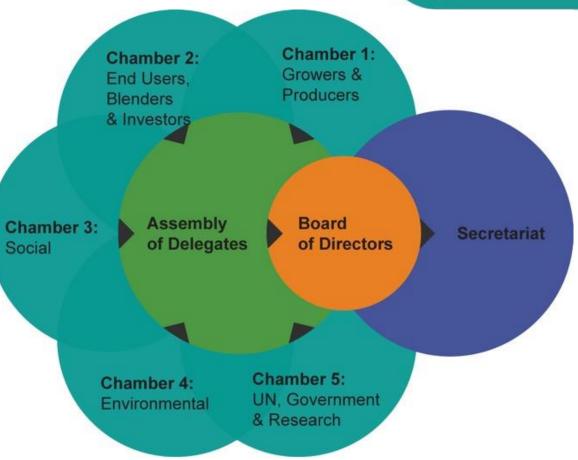




MEMBER GOVERNANCE



83	Members	
32	Countries	
5	Chambers	
15	Chamber Delegates	





Our Member Community



1	Committed to food security, rural development and protection of ecosystems
2	Developed and approved the 12 principles and the most robust standards for Advanced Fuels and Advanced Products
3	Actively drive the bioeconomy through innovation & business partnerships
4	Committed to solving social and environmental issues
5	Working to achieve the UN Sustainable Development goals

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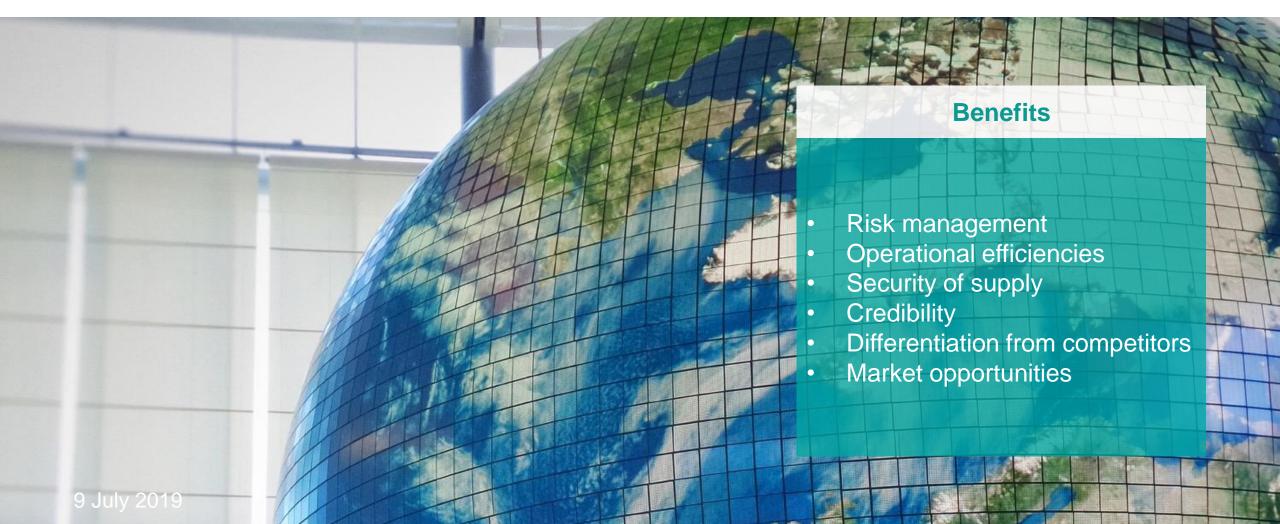




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Why Get Sustainability Right?



RSB Bundlable or Sustainable Biomacerials www.rsb.org

The Sustainability Journey

1. Compliance	2. Improvement	3. Leadership
RegulationsMarket access	 Identify & manage risks Apply best practice across supply chain 	 Understanding new issues Engaging consumers and supply chain
		 Learning from industry Influencing debates /policy

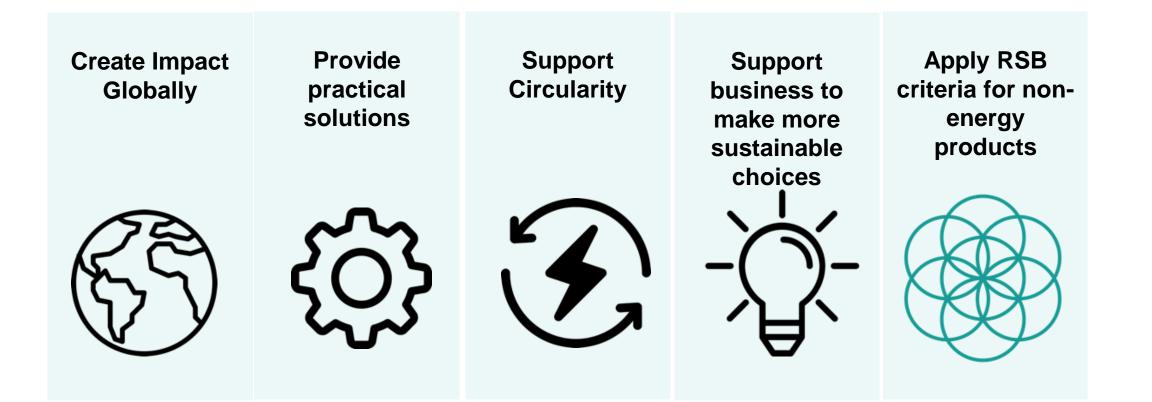


CERTIFICATION OF ADVANCED PRODUCTS



RSB's Approach for Advanced Products A vision for a sustainable economy

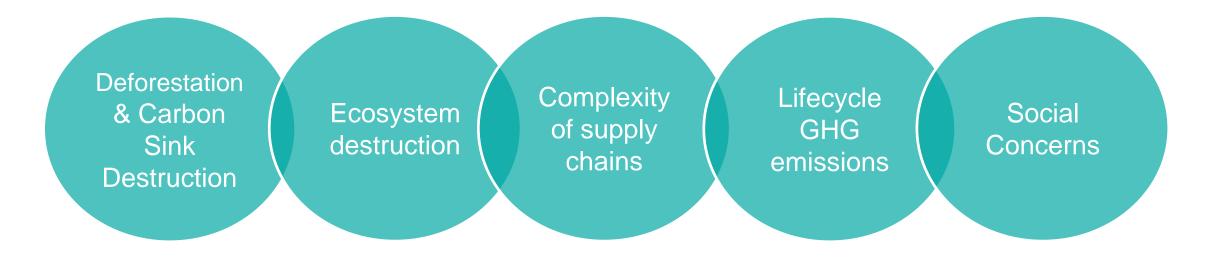






Risks for Advanced Products







What is an Advanced Product?



Non-Energy

Bio-based

Recycled Carbon

Bio-based and/or Recycled Carbon process in combination with virgin fossil resources agricultural, forestry, marine or aquatic feedstocks, including production residues and end-of-life products

CO2 from exhaust gases, end-of-life plastics, end-of-life tyres, other fossil carbon waste or residue streams

Either of the above



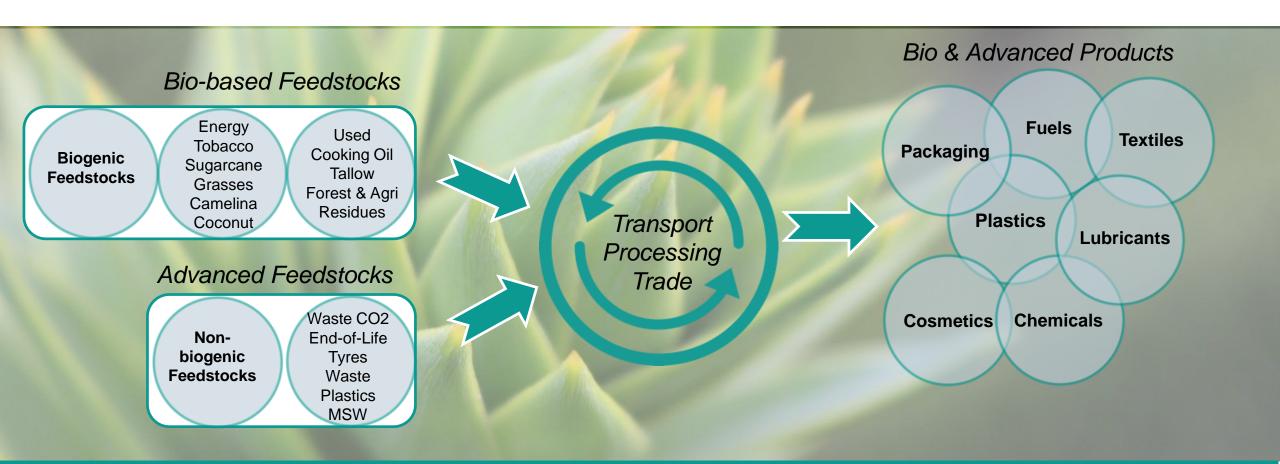
Why Are Advanced Products Important? Crucial building blocks of a sustainable economy



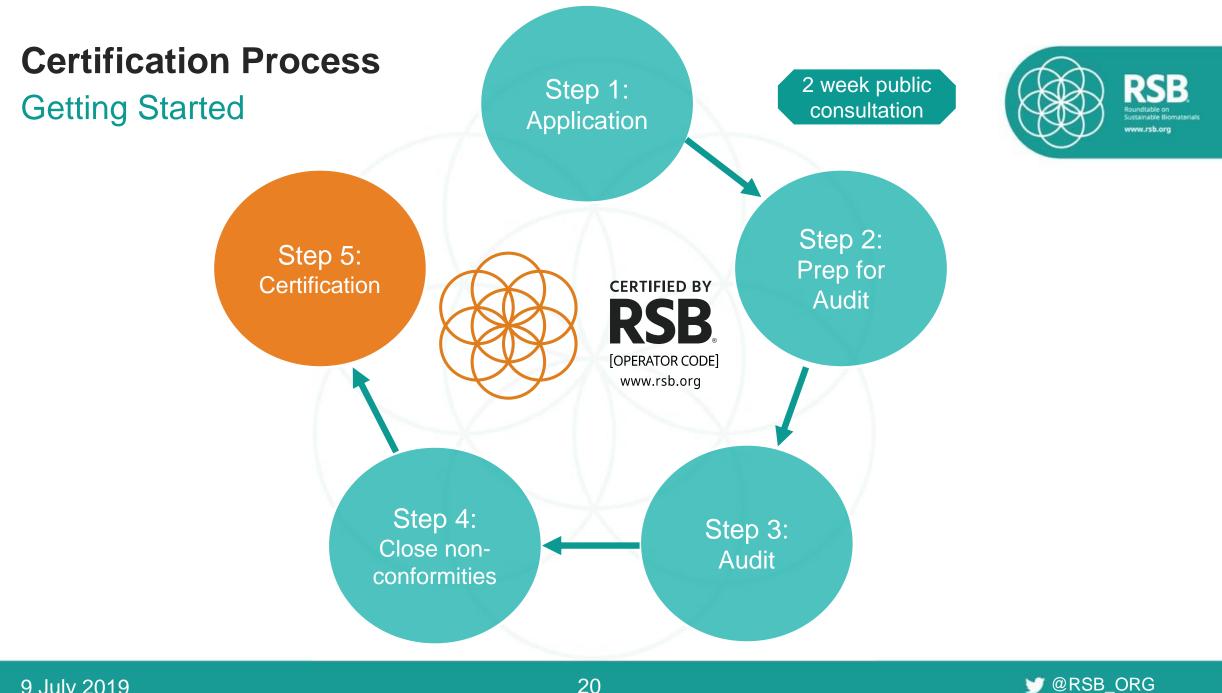
But can these products fulfil their promises?



RSB Certification Feedstock & product agnostic



full supply chain certification



Who Is Involved Certification Role Players





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@RSB_ORG

TRACEABILITY OPTIONS



- Identity Preserved: Do not mix batches from different origins
- **Product Segregation:** Do not mix certified and not certified batches
- **Mass Balance**: Physical mixing is allowed, but keep separate records of certified and not certified material
- Book & Claim: Allows the separation of the claim from the material



Chain of Custody

Crop-based Supply Chains





Certification from field to the final product









CERTIFIED BY





Chain of Custody

Residue-based Supply Chains





- Eligibility -
- GHG = 0-
- Specific sustainability criteria apply







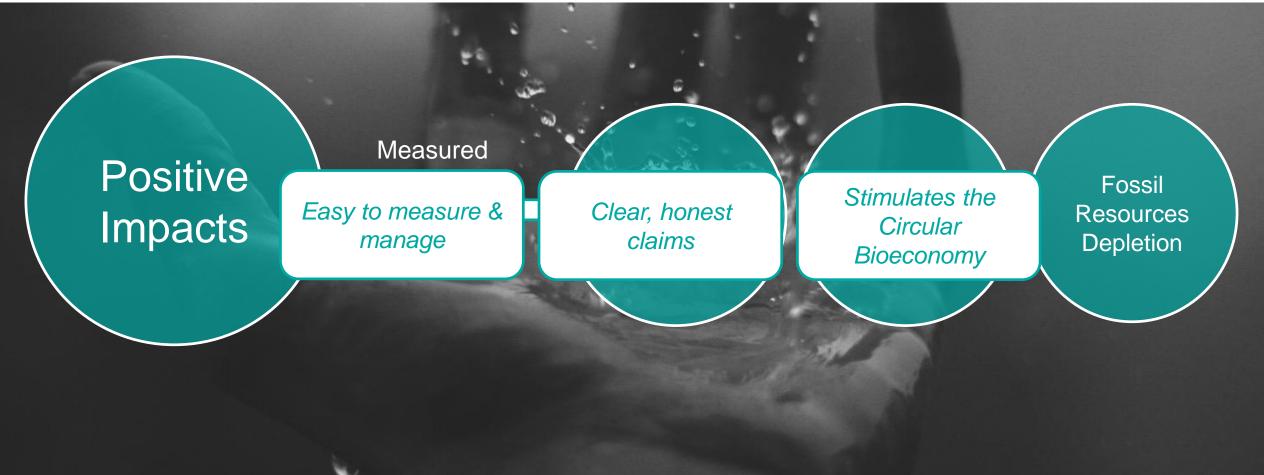


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RSB Standard for Advanced Products

Powerful claims for cutting edge organisations



RSB



SMART SUSTAINABILITY IN PROJECT DESIGN



HOW TO BE SMART Making the right choices from Day 1





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RESOURCE ASSESSMENTS The foundation of smart sustainability



Real sustainability is built into the foundations of the project!



ISSUES TO BE CONSIDERED Knowing the risks





WATER USE Factors We Consider





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GHG Emissions The factors involved



Factors that can increase emissions:

- land-use change
- fertiliser use
- decreasing soil carbon
- inefficient transportation
- inefficient processing

Factors that can decrease emissions:

- minimum soil disturbance
- intercropping
- perennial feedstocks
- reducing inputs & water use
- using residues for heat/power generation

WORKERS RIGHTS



Sustainability is **not** just about the environment

Good practices:

- No forced labour / child labour
- Right to associate and collectively bargain
- Free from discrimination
- Fair wages and conditions
- Health and safety
- Dispute mechanisms
- Third party contractors

LOCAL FOOD SECURITY



Are non-food feedstocks better for food security? Can fuel / materials feedstocks support food security? **Good practices:**

- What is the local context?
- Can food production be improved?
- Food development plan

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RURAL DEVELOPMENT



- Feedstock production can have a positive impact
- Know local context and potential impact: Social Impact assessment; stakeholder consultation.
- Development plan: labour, outgrowers, training/extension services, health.
- Feedstocks with multiple products and intercropping support additional incomes for farmers.

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Why Choose RSB Smart Sustainability is Good for Business



Applicability Riskto all Multi-GHG Standard based regions, stakeholder Reduction Coverage feedstocks & Approach Approach Requirement products Widespread Addresses NGO Social Environmental regulatory indirect Rigour Support Rigour recognition effects



THANK YOU!

Elena Schmidt | **Standards Director** Roundtable on Sustainable Biomaterials





Q&A with Elena Schmidt from RSB





Elena Schmidt Standards Director





THANK YOU!

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