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BRITAIN & NORTHERN IRELAND

# Chain of Custody at RenovaBio Energy Show Case

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# Outline

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1. Chain of custody: Theoretical reference
2. Benchmark: main certification programs
3. Challenges for grain-based biofuels at RenovaBio
4. Discussion with key stakeholders
5. Proposal of a Chain of Custody system for RenovaBio

ICS > 03 > 03.100 > 03.100.01

## ISO 22095:2020

Standards	Attributes
RTRS RSB ISCC CORSA RED Soybean's Moratorium	Objective Product Models Verification Responsibilities

# Chain of Custody Models

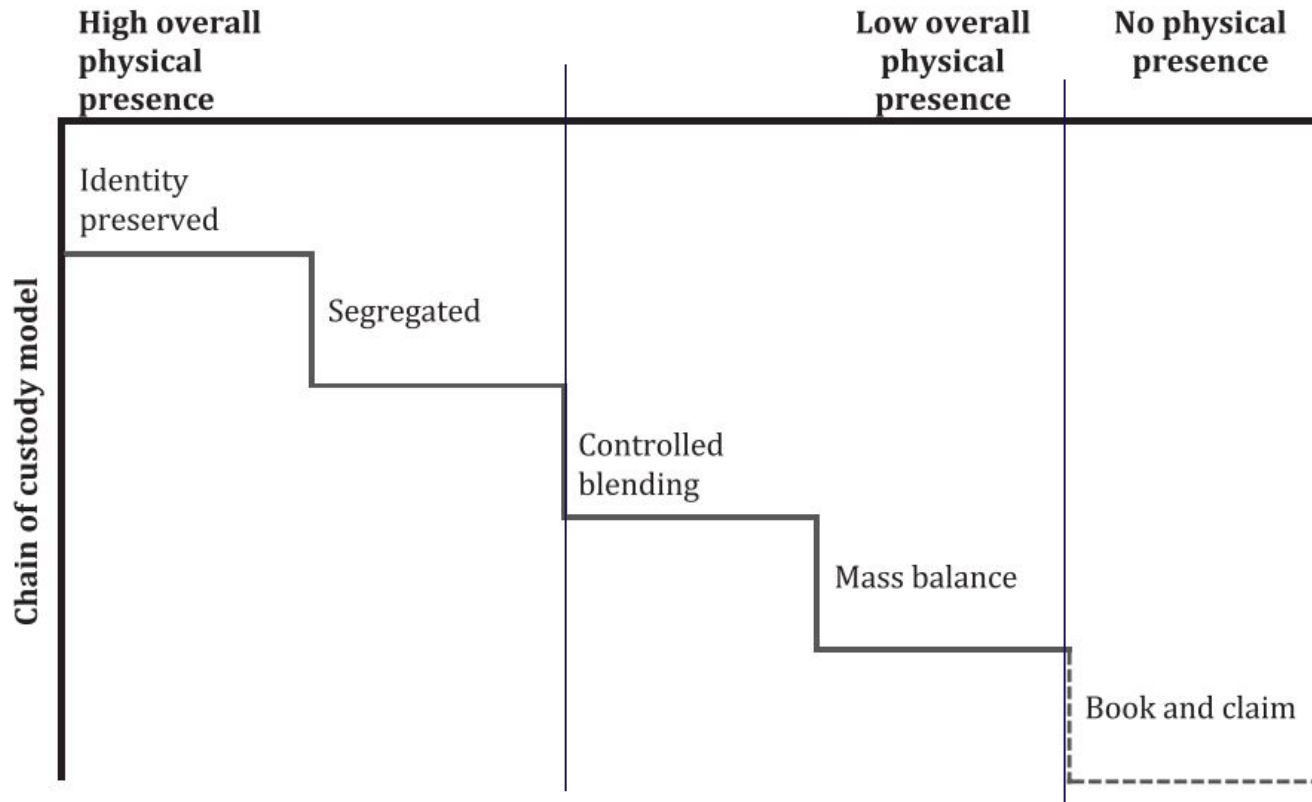


Figure 1 — Indicative illustration of chain of custody models ranked according to the physical presence of specified characteristics

Source: ISO 22095 (2020)

**The choice of the appropriate Chain of Custody model depends on the expectations that the actors in the supply chain aspire to.**

# Expectations (ISO 22095, 2020):

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**Item-based:** the **material or product received bears all the characteristics** identified by associated information; .

X

**Market-based** expectations can be founded on a **desire to promote the production and trade of the material or product with the desired characteristics, independent of any desire actually to purchase materials or products bearing them.**

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**Production characteristics sometimes create *product characteristics*.** *Examples include* the grinding of wood, the chemical treatment of wood for pulp production and food cooked at a low temperature.

Examples of production characteristics that **do not normally** create a product characteristic include production according to a particular specification, such as the sustainable production of the material; the absence of child labour; particular human rights standards or the identity of the primary processor.

# Benchmarking of Certifications: scope and guidelines



Main characteristics	Program		Certification scheme			Private pact
	RED EU	CORSIA	RTRS	RSB	ISCC	Soybean's Moratorium
Biofuels	Y	Y	N*	Y	Y	N
Grains	Y	Y	Y	Y	Y	Y
Deforestation	Y	Y	Y	Y	Y	Y (Amazon)
Local legislation (environmental and labor criteria)	Y	Y	Y	Y	Y	N**
Recognizes other schemes	Y	Y	N	N*	N*	N
Recognizes other programs	N	N	N	N	N	N
Documentation for chain of custody management	Guidance	Guidance	Y	Y	Y	Guidance
Allows intermediate certification	NA	NA	Y	Y	Y	NA
Allows the use of stocks from previous periods	NA	NA	Y	Y	Y	NA
Dominant in the market	Y	N	N	N	N	Y

Source: Agroicone

Notes: Y = Yes; N = No, NA = Not Applicable; N\* although there is no certification of biofuels, certified soy can be used to produce biofuels at RED; N\*\* it cannot be on the "slave labor" dirty list.

# Benchmarking of Certifications: models and monitoring systems



	Program		Padrão de cadeia de custódia			
Main characteristics	RED EU	CORSIA	RTRS (V2.2)	RSB (Chain of Custody Procedure)	RSB EU-RED	ISCC (203)
<b>Chain of Custody Models</b>						
<b>Identity preserved</b>	don't quote	don't quote	don't quote	Y	don't quote	don't quote
<b>Segregated</b>	don't quote	don't quote	Y	Y	Y	Y
<b>Controlled blending</b>	don't quote	don't quote	N	N*	N	N
<b>Mass balance</b>	Y	Y	Y	Y	Y	Y
<b>Book and Claim</b>	N	N	Y*	Y*	N	N
<b>Verification and Monitoring</b>						
<b>Third Party Verification</b>	Y	Y	Y	Y	Y	Y
<b>Own System</b>	NA	N	Y	N	N	N
<b>Block-Chain</b>	N	N	N	N	N	N

Source: Agroicone.

Notes: Y\* Only accept the final product (not for inputs). N\* Indicates that use similar method, but with other nomenclature.

# Preliminary Recommendations

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- The Chain of Custody regulation must keep the “non deforestation” as key element of RenovaBio
- It should be aligned with ISO 22095.
- Mass Balance Model (that allows mixes of materials with different attributes) seems to be the most recommended model.
- The “Third Party Verification” and increases the credibility of claims.
- The use of computerized systems may reduce costs and risks, increase security and enable volumes of certified material, but the practical use is still incipient.

# Open Points

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- Certification viability of the “mid-point” with of “Third Party Verification”
- Responsibilities along the Chain of Custody
- Combination’s viability related to the Chain of Custody models (more restrictive than Mass Balance model)
- Viability of the Chain of Custody to have a computerized systems (on short or long term)
- List of supporting documents for the Chain of Custody



# Expected timeline

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- **March / April:** collecting information from interested parties
- **April / May:** preliminary writing of the report
- **May:** elaboration of Technical Note
- **2nd semester 2021:** addressed by the ANP (possibly in revision of Law RANP-758)



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