

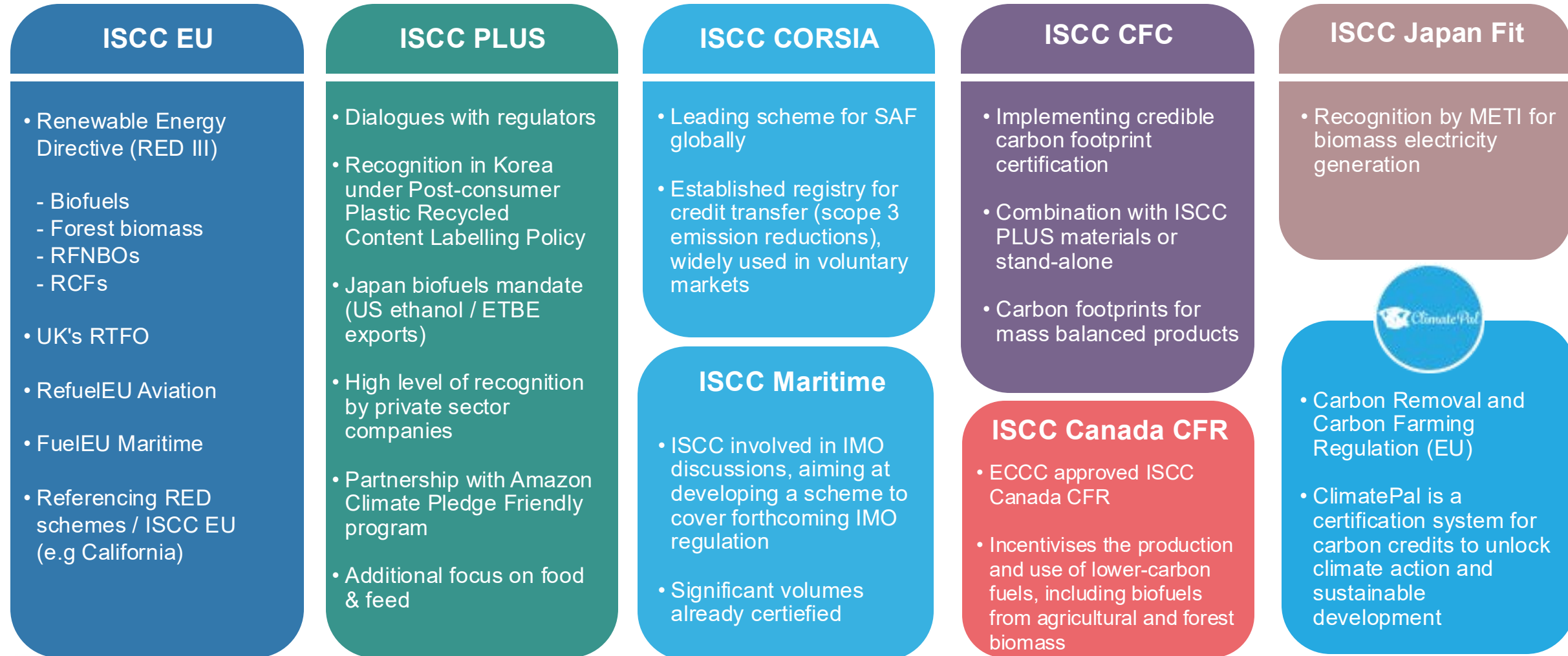


Driving Sustainability Forward: ISCC as a One-Stop Solution Provider

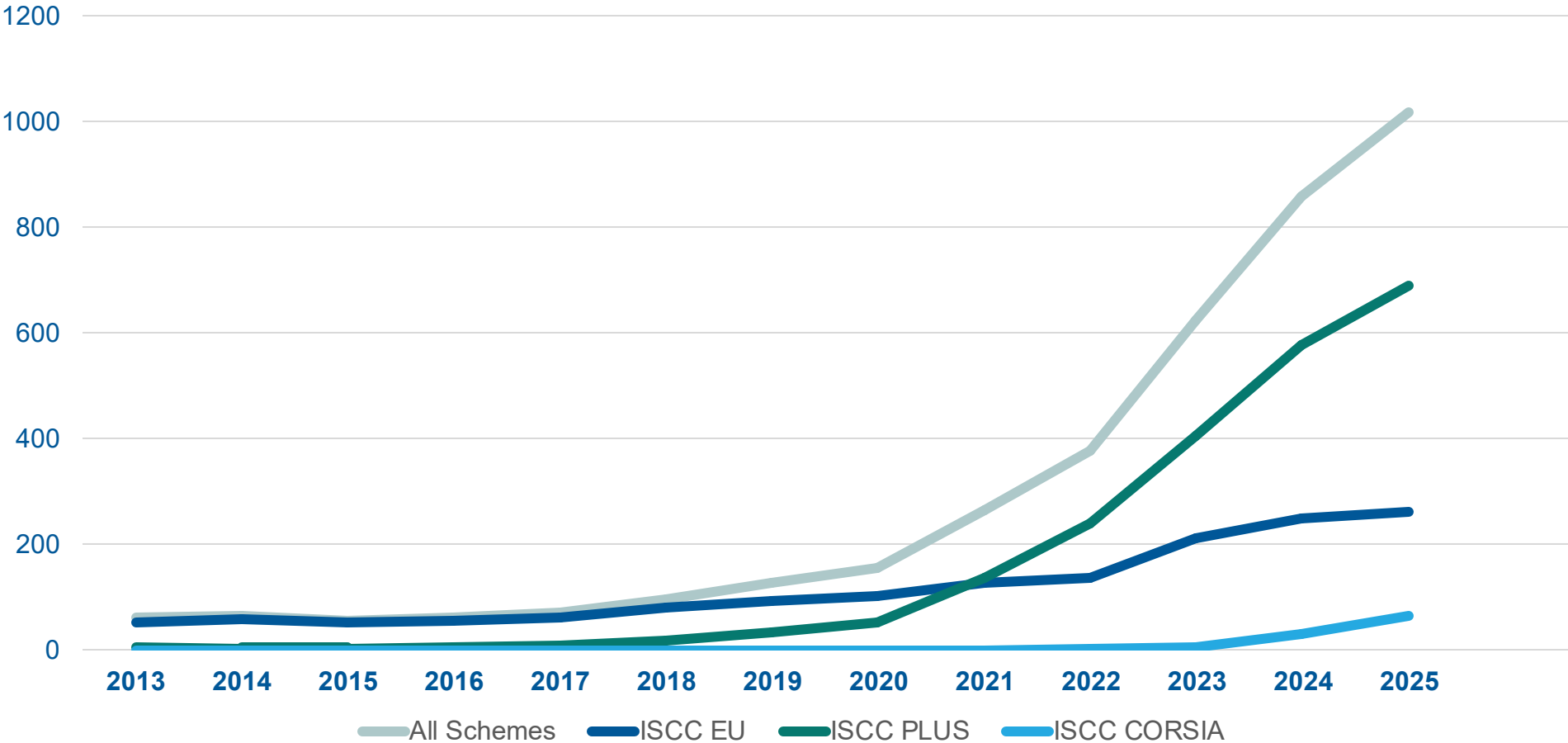
Dr Norbert Schmitz, Managing Director, ISCC System, Germany
ISCC Regional Stakeholder Meeting North America
Nashville, TN, USA, November 18, 2025

Sustainability regulations are getting more complex.

ISCC supports compliance with different certification schemes



Strong growth rates in the North American market: 1,017 valid ISCC certificates at the time being



Total

↑ 19%

ISCC PLUS

↑ 19%

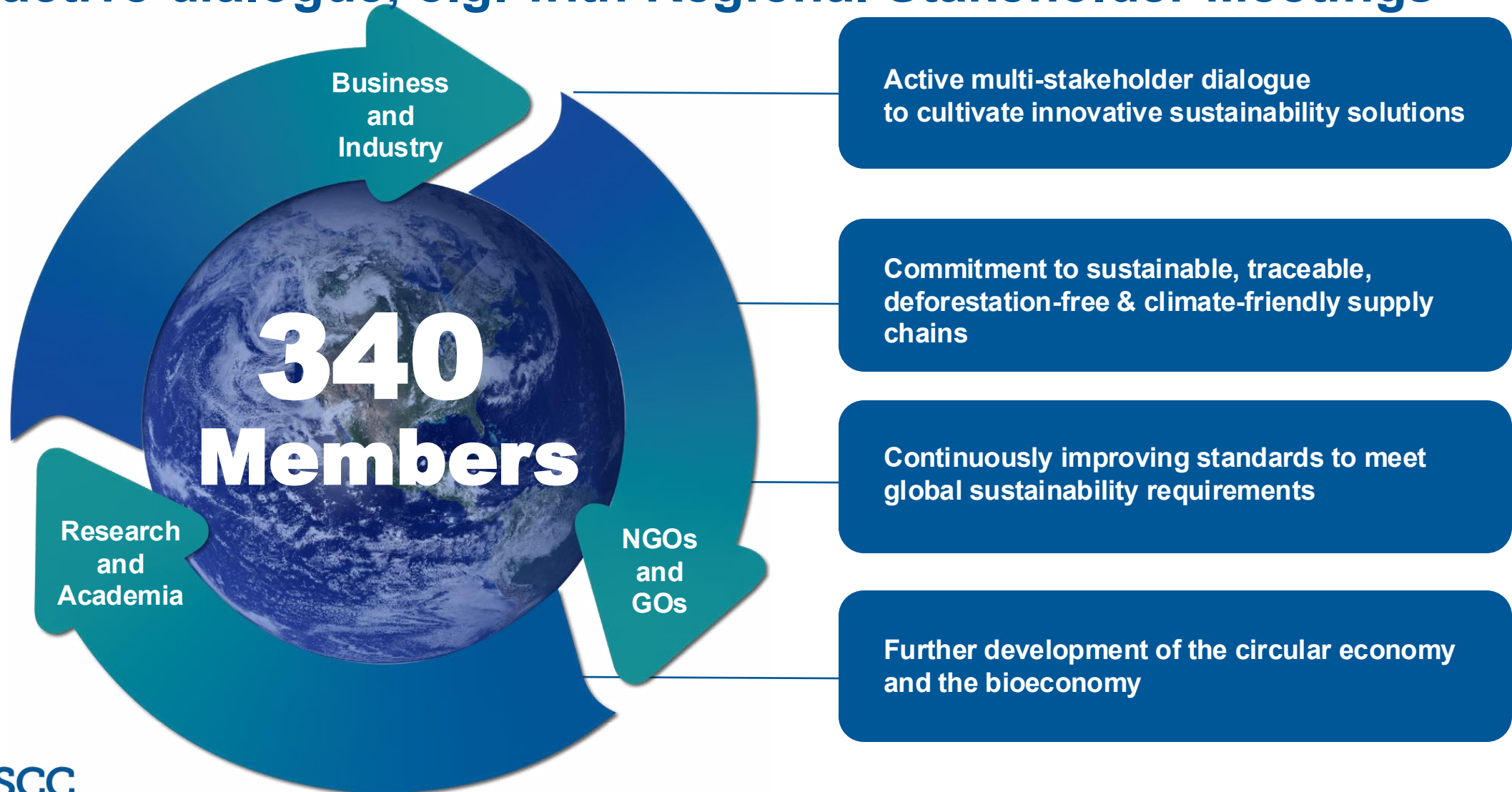
ISCC EU

↑ 6%

ISCC CORSIA

↑ 121%

True multi-stakeholder approach: The ISCC Association stands for active dialogue, e.g. with Regional Stakeholder Meetings



62 members of the Association are based in North America



Target overview of the RED III

Overall RED saving target		RED II	RED III (Directive (EU) 2023/2413)
		At least 32%	At least 42.5% (joint effort to reach 45%)
	Transport target	At least 14%	At least 14.5% GHG savings or 29% renewable energy for all transport modes, including aviation and shipping
Renewable Energy for transport	Crop based feedstocks	7% cap (2020 consumption level, MS may reduce 7% to zero)	No changes
	Targets for Annex IX, Part A (advanced fuels)	0.2 % (2022), 1 % (2025), 3.5 % (2030)	At least 1% in 2025 and 5.5% in 2030 (shared with RFNBOs), with potential for increase if more feedstock is available
	Target for Annex IX, Part B	Limit of 1.7% (modifiable by MS with Commission approval)	No change
	RFNBOs	No target included	At least 1% in 2030 (renewable hydrogen for petrol and diesel counts towards the transport target)
	Sustainability criteria	Land and land-use related requirements for agricultural and forest biomass	Follow the cascading system to be respected , prioritizing biomass for material use over energy use

RED III covers renewable and non-renewable fuels

Biofuels

Liquid fuels for transport produced from biomass

Biomass fuels

Gaseous and solid fuels produced from biomass

Bioliquids

Liquid fuels for energy purposes other than for transport, including electricity, heating and cooling, are produced from biomass

Renewable fuels of non-biological origin (RFNBO)

Liquid and gaseous fuels, the energy content of which is derived from renewable sources other than biomass

Recycled carbon fuels (RCF)

Liquid and gaseous **fuels that are produced from liquid or solid waste streams of non-renewable origin**, which are not suitable for material recovery in accordance with Article 4 of Directive 2008/98/EC, or from waste processing gas and exhaust gas of non-renewable origin, which are produced as an **unavoidable and unintentional consequence of the production process in industrial installations**

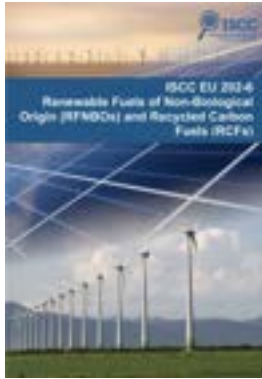
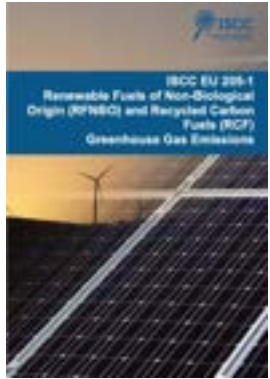
EU COM officially recognised ISCC EU under RED III at the end of 2024

- **Recognition:**
 - Official recognition in place as of 19th December 2024
- **New ISCC EU Documents**
 - Are available since May 2025 on ISCC website
- **Member states**
 - Had to transpose RED III into national law until May 2025



ISCC EU RFNBOs* Certification Lifting off

North America is a potential market for eFuels and RFNBOs



- **Official EU COM Recognition** as of December 2024
- ISCC System Documents, Audit Procedures and FAQ in place

- **23 certificates issued** in 9 countries
- Products certified: e-hydrogen, e-methane, e-Methanol, e-ammonia
- Numerous **pilot projects** and audits conducted (**including USA**)

- **Stakeholder engagement and training:**
- 150+ auditors trained in three ISCC RFNBOs Training
- +800 participants in RFNBOs events and TCs RFNBOs
- **ISCC Technical Stakeholder Meeting (February, 2026)**

Intermediate crops can be claimed as advanced feedstock under the RED. EU COM to provide further guidance for certification

- Intermediate crops listed in Annex IX
- RED definition defines three certification criteria:
 - Grown in areas where, due to a short vegetation period, the production food/ feed crops is limited to one harvest
 - Do not trigger demand for additional land
 - Soil organic content is maintained
- Certification schemes waiting for guidance from EU COM
- ISCC aiming to conduct pilot audits to develop robust certification approach

Examples



Carinata



Camelina



Crambe



Sunflower

Cultivation of non food/ feed crops on cultivated land is another option to produce feedstocks for advanced biofuels under the RED



¹Thresholds/ ranges to determine salination, SOM and erosion as well as guidelines for sampling given in report prepared for EU COM;
https://iluc.guidehouse.com/images/reports/phase2/Low_ILUC_Phase_2_Report_final.pdf

- Crops grown on severely degraded land can be certified as advanced feedstocks:
- Except food/ feed crops used for the production of biofuel for the aviation sector AND
- If the land has either been significantly salinated¹ or presented significantly low soil organic matter (SOM)¹ content AND
- Has been severely eroded¹

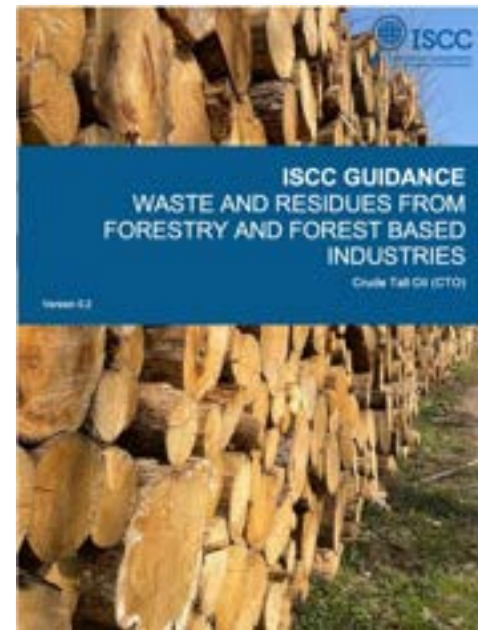
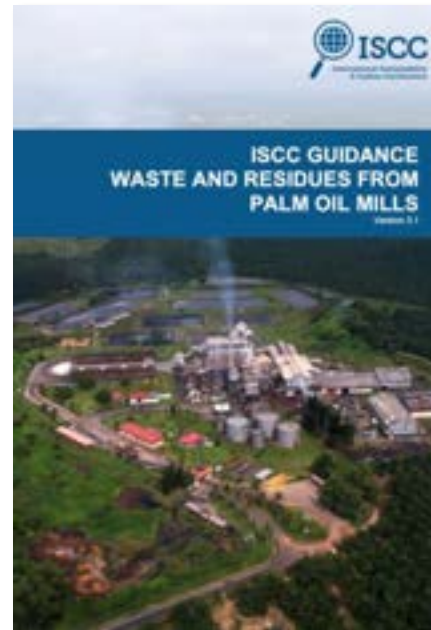
Certification under ISCC is possible

ISCC expert and stakeholder groups have been working on guidance for auditing of waste and residue feedstocks



Audit process

- POME
- Used Cooking Oil
- Brown Grease
- Food Waste
- Sewage Sludge
- Soapstock
- Spent Bleaching Earth
- CTO
- ...



New EU Mass Balance Guidance: Clear rules, fewer errors



The ISCC working group on Mass Balance elaborated a document to clarify the most relevant topics and provide visualisation for mass balance guidelines, e.g.:

- Classification of physical identity and product group linked to the ISCC material list
- Tolerance zone of 2-5% regarding product group criteria
- Decision trees for assignment rules along the supply chain
- Explanation of specific scenarios: e.g. co-processing, pipelines, biomethane/biogas set-ups
- One level playing field for ISCC system users
- Clear guidelines for auditing

The EU Database and ISCC Connection



The UDB (or Union Database) is a European Union platform for recording the traceability and sustainability of sustainable biofuels and biogas, as mandated by the Renewable Energy Directives.

The UDB aims to prevent fraud and double-counting by tracking raw materials, intermediates, and fuels throughout the entire supply chain.

ISCC has played a key and active role in implementing the UDB - from testing and training to achieving full onboarding and ensuring ongoing user support.

The deadline for the mandatory implementation of the UDB **has not yet been finalised** and remains subject to coordination with the Member States.

Economic Operators (EO) have to register the following data in the UDB:

- List of **sourcing contacts** (i.e., non-certified points of origin)
- **Material uptake** from the sourcing contacts
- Any kind of **transactions** (e.g., seller transactions, B2B trades, internal transfers)
- Material processing (i.e., **conversions**).

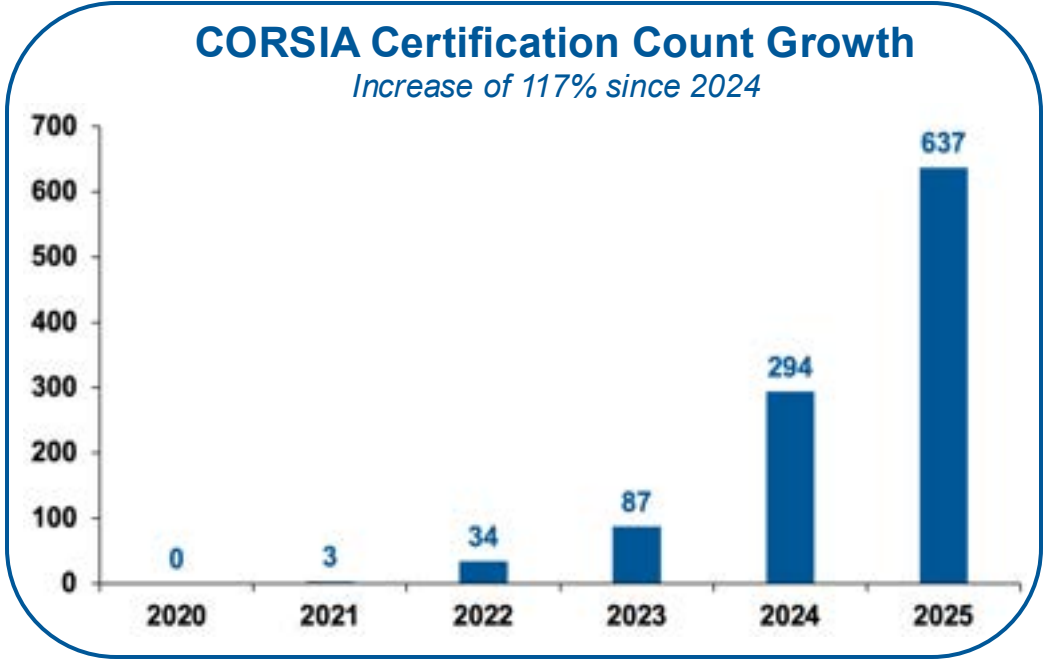
Ensuring credibility and integrity, in particular in high risk supply chains - Overview of implemented measures

Selection

Audit Process	Individual certification of palm oil mills and refineries	Stepwise roll out of ISCC Risk Tool	High-risk level for all W/R audits	Mass Balance Guidelines
Auditor Qualification	Strengthened Auditor Qualification	CB Workshops and Trainings	Data-driven Audit Procedures for Biodiesel	Improved Guidance on W/R Auditing
System Integrity	Expansion of ISCC IA Programme	Introduction of ISCC Sanction Board	Remote Sensing Monitoring of Processing Units	Introduction of Whistleblower Tool
Joining Forces	Exchange with EU COM and EU MS on Fraud Mitigation	ISCC Working Group on Chemical Analytics	Collaboration with Law Enforcement Agencies (e.g. OLAF)	Expert Assessment of ISCC Certified Processing Units

637 valid certificates under ISCC CORSIA standard

Growth of 117% from 2024 to 2025: CORSIA demand is rapidly expanding



66 ISCC CORSIA CERTIFICATES

20% AMERICAS
131 Certificates

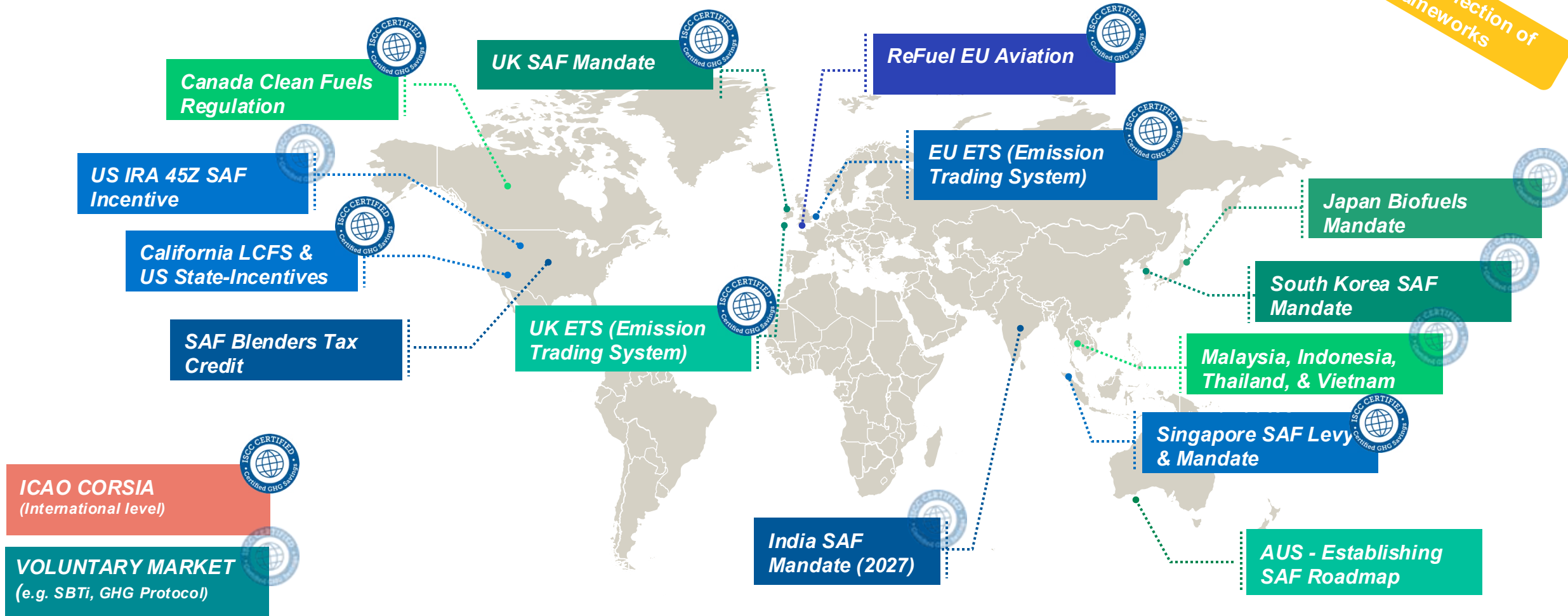
17% EMEA
106 Certificates

63% APAC
400 Certificates

Supporting Global SAF Sustainability Via Certification

A key tool for compliance in (inter)national regulatory & voluntary SAF frameworks

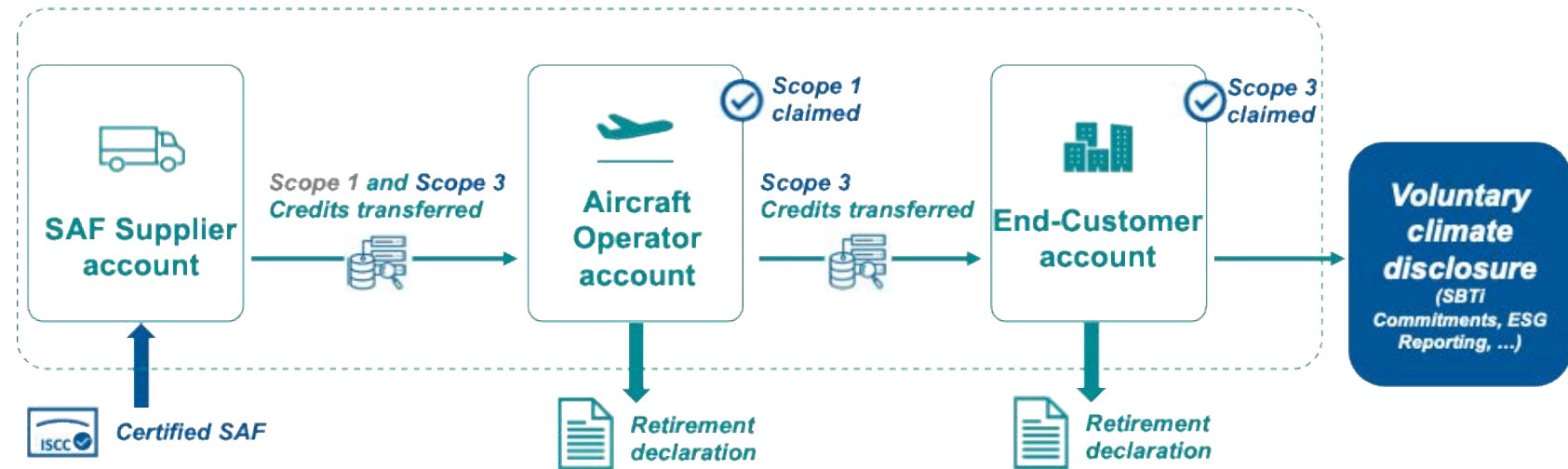
Sample selection of frameworks



Driving SAF uptake: The ISCC Credit Transfer System

Registry framework to soon support both mass balance and B&C approaches

- ISCC powers **robust and credible voluntary SAF Scope 1 & 3 claims**.
- **Standardised auditing criteria and certification framework** provide increasingly credible claims.
- Investigating **new opportunities and expansion to other markets**, such as Road & Marine



Supporters of the ISCC Credit Transfer System:



ISCC in the Maritime Sector



ISCC is a **frontrunner of the certification of Alternative Marine Fuels (AMF)**



The ISCC Association counts **numerous members from the maritime sector**

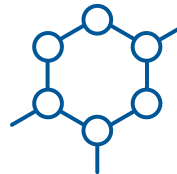
Both **regulated** (e.g. EU RED, FuelEU Maritime) and **voluntary market** (e.g. SBTi*) pulls ISCC certification market growth

The ISCC **Proof of Compliance (PoC) framework** allows for operationalisation of specific claims in the value chain



ISCC has **already certified numerous bio-based AMF**, including HVO, biodiesel, bioLNG, biomethanol

ISCC is engaged with **IMO** supporting the implementation of certification framework under IMO NTZ** and potentially seeking recognition as IMO Sustainability Fuels Certification Scheme (SCFS)



RFNBOs that can serve as AMF, such as e-methane, e-hydrogen, and e-ammonia

Hong Kong-based bunker trading firm E-Marine obtains ISCC EU certification

"The shipping industry's decarbonisation is accelerating, and companies that embrace the transition will thrive," states Daisy Wang, Managing Director of E-Marine.



<https://www.manifoldtimes.com/news/hong-kong-based-bunker-trading-firm-e-marine-obtains-iscc-eu-certification/>

Uni-Fuels gets ISCC certifications to accelerate sustainable marine fuel trading

February 26, 2023, by Nicole Hoffmann, President
Singapore-based provider of marine fuel solutions Uni-Fuels has received both ISCC EU and ISCC PLUS certifications from the International Sustainability and Carbon Certification (ISCC), an independent multi-stakeholder initiative and certification system supporting sustainable, fully traceable, deforestation-free and climate-friendly supply chains.



<https://www.offshore-energy.biz/uni-fuels-gets-iscc-certifications-to-accelerate-sustainable-marine-fuel-trading/>

Fueling the Future: The Use of RFNBOs and RCFs For Decarbonising Challenging Sectors

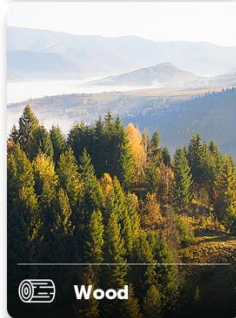
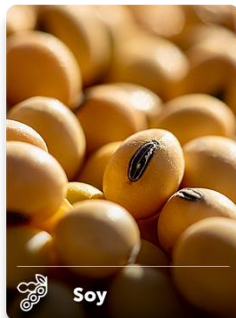
In the world committed to efforts to combat climate change, sectors such as aviation, shipping, and heavy manufacturing remain difficult to decarbonise as they rely heavily on fossil fuels. Renewable fuels of non-biological origin (RFNBOs) and Recycled Carbon Fuels (RCFs) offer a solution to fill this gap.



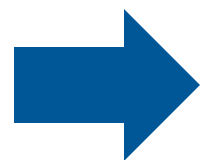
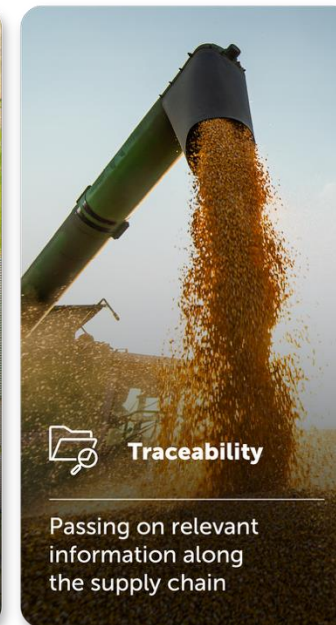
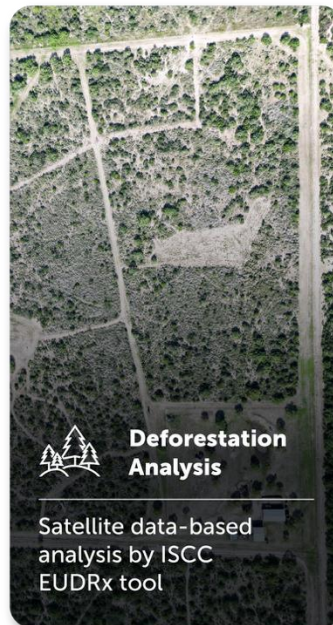
<https://www.euractiv.com/opinion/fueling-the-future-the-use-of-rfnbos-and-rcfs-for-decarbonising-challenging-sectors/>

ISCC EUDR add-on offers a comprehensive solution for all EUDR requirements – compatible with ISCC EU and ISCC PLUS

It supports the following commodities:

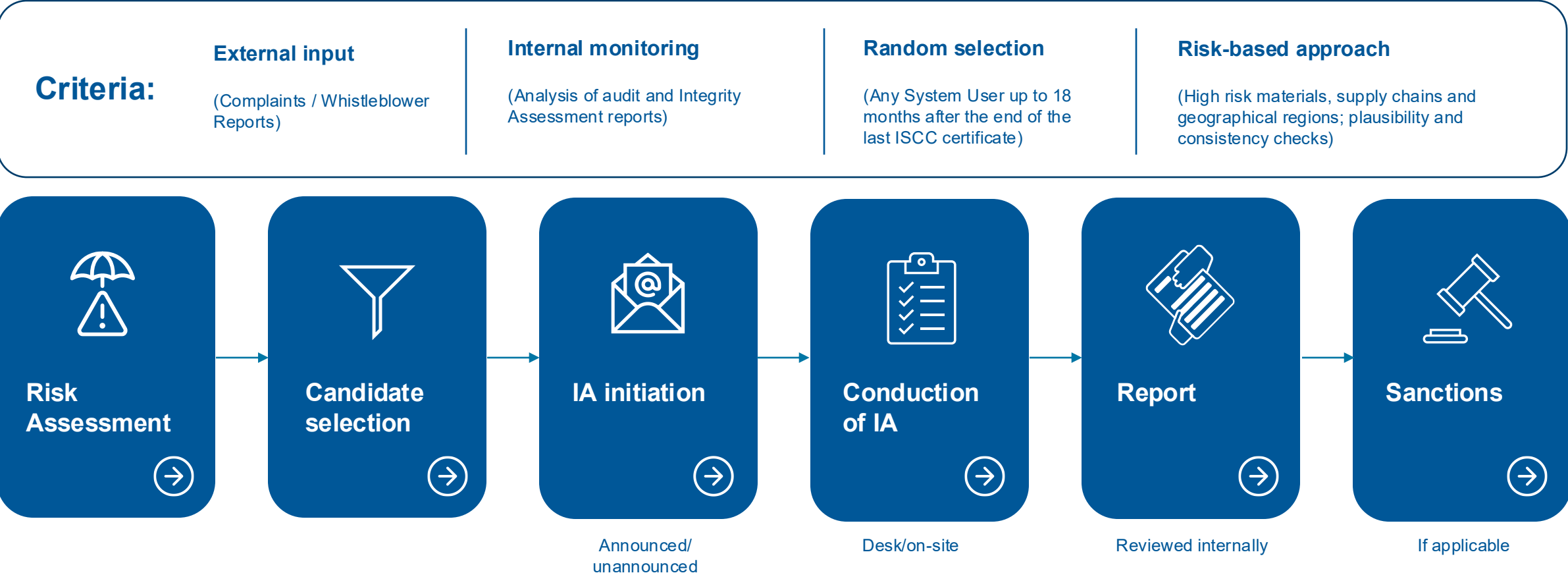


The EUDR add-on provides solutions for all EUDR key requirements:



If you are exporting wood or soy product from the **US to Europe**, the EUDR requirements apply for the importer
The **ISCC EUDR add-on** can support you to ensure that the material is EUDR compliant

ISCC runs a comprehensive integrity program to ensure credibility – in the interest of all system users and regulators





Thank you!

ISCC System GmbH

Hohenzollernring 72, 50672 Cologne, Germany

www.iscc-system.org

