



Harmonizing environmental and GHG footprints throughout supply chains

Technical Committee Southeast Asia, 26 October 2021

Inna Knelsen

ISCC System GmbH

The interest on carbon footprint calculations rises significantly – also ISCC is increasingly becoming contacted on the topic

13 CLIMATE ACTION



Climate change: China aims for 'carbon neutrality by 2060'

By Matt McInerney
Environment correspondent

23 September 2020



The European Green Deal is a roadmap for Europe becoming a **climate-neutral continent by 2050**.



PepsiCo Doubles Down on Climate Goal and Pledges Net-Zero Emissions by 2040

f t in | 01/14/2021

Accelerates efforts to build a more resilient and sustainable food system, reducing absolute GHG emissions more than 40% by 2030 across entire value chain

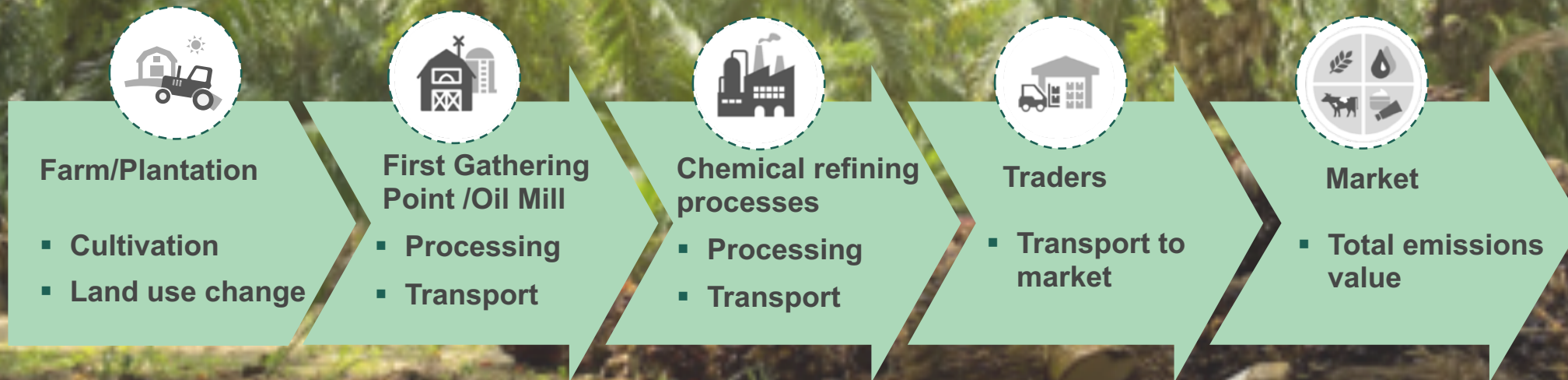
201 Signatories

See which companies and organizations have committed to net zero carbon by 2040.



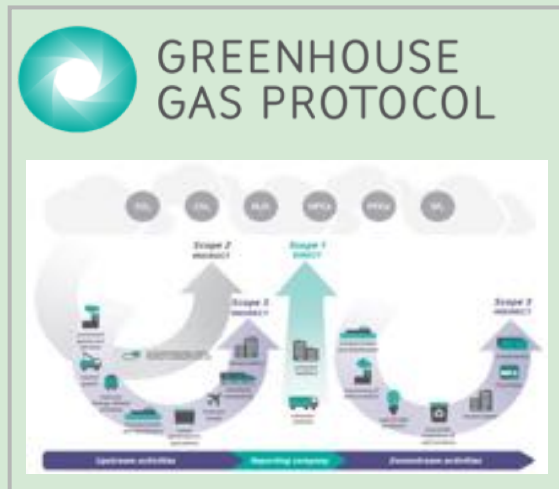
How it works currently at ISCC

- Carbon footprint calculation and forwarding **along the entire supply chain** via sustainability documentation
- **Individual GHG emission values** per production step based on actual data
- **Annual verification audits** of GHG methodology and input data



Many current requests from market actors refer to acceptance of other GHG standards under ISCC PLUS – today a fragmented landscape exists

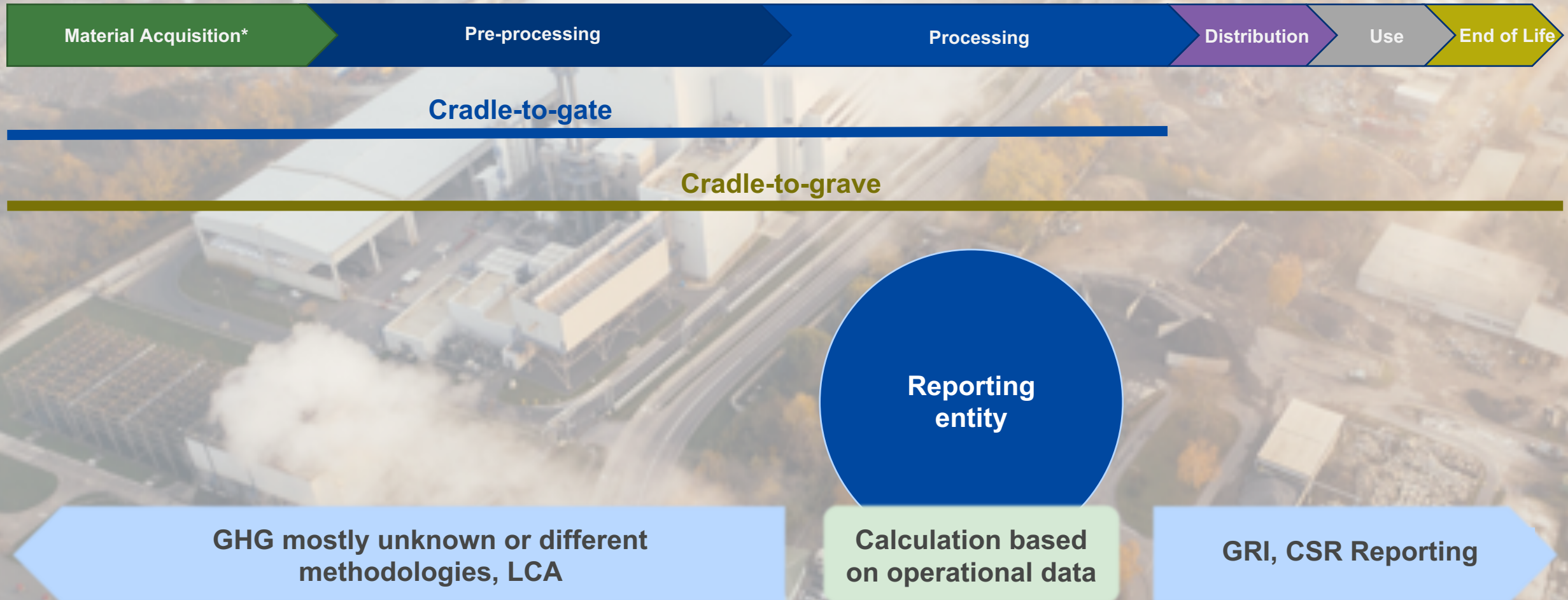
GHG emission methodologies/ standards



GHG/LCA calculation tools



Those companies contacting ISCC to integrate their GHG calculations into the ISCC certification provide different possible setups around the reporting entity



Potential issues in different methodologies

■ Methodology, e.g.

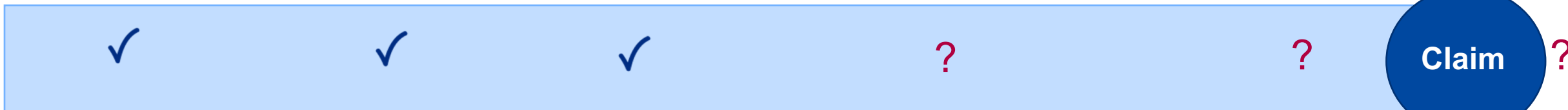
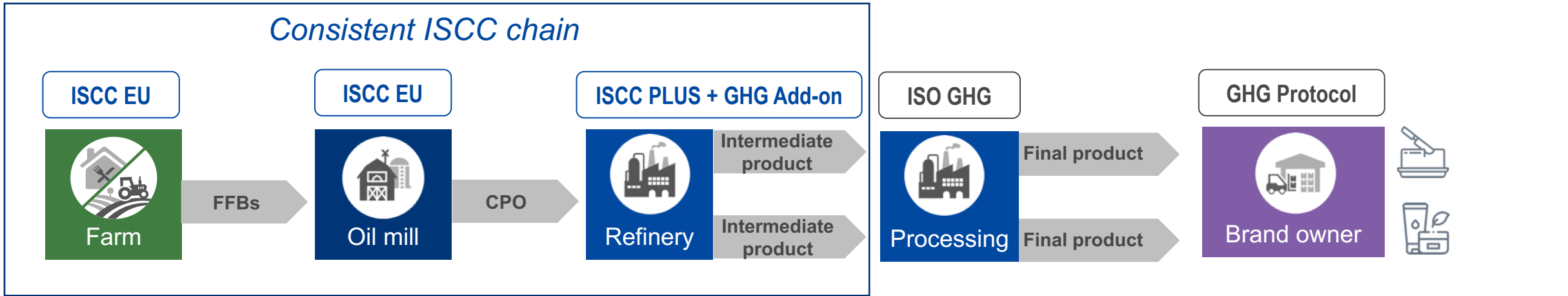
- System boundaries and life cycle stages
- Scope 1-3
- Emissions from land-use change/ soil carbon accumulation/ N₂O
- Carbon sequestration
- Carbon credits/ offsets
- Avoided emissions
- Units
- Allocation

■ Verification and documentation

- Values are not 3rd party verified
- On-site vs theoretical data
- Claims

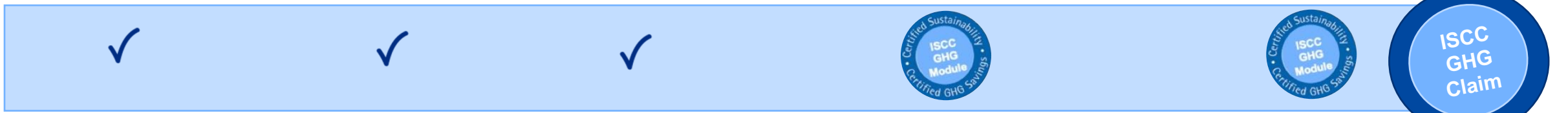
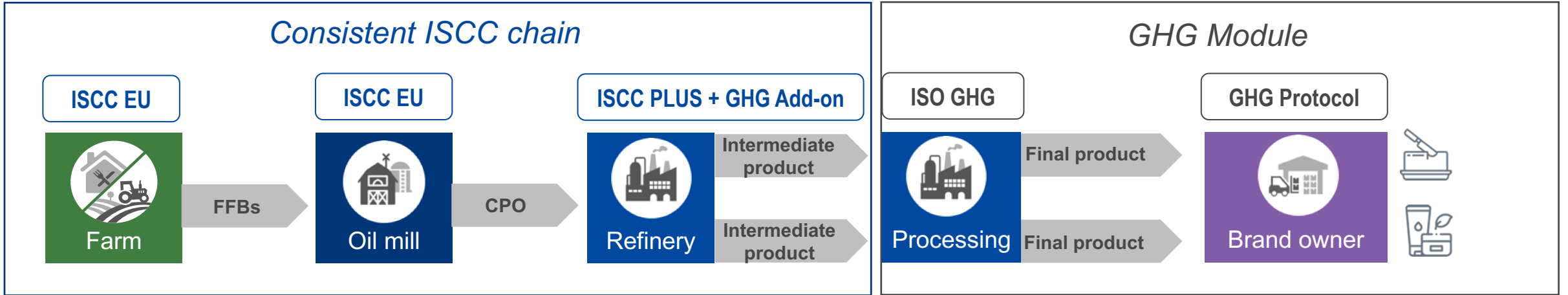
The main challenge is to provide harmonisation of applied GHG calculation methodologies among the diverse supply chain setups

Example



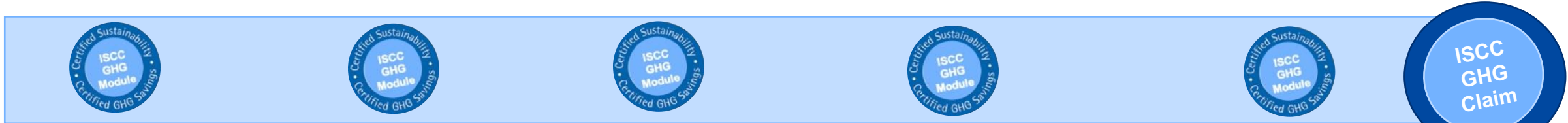
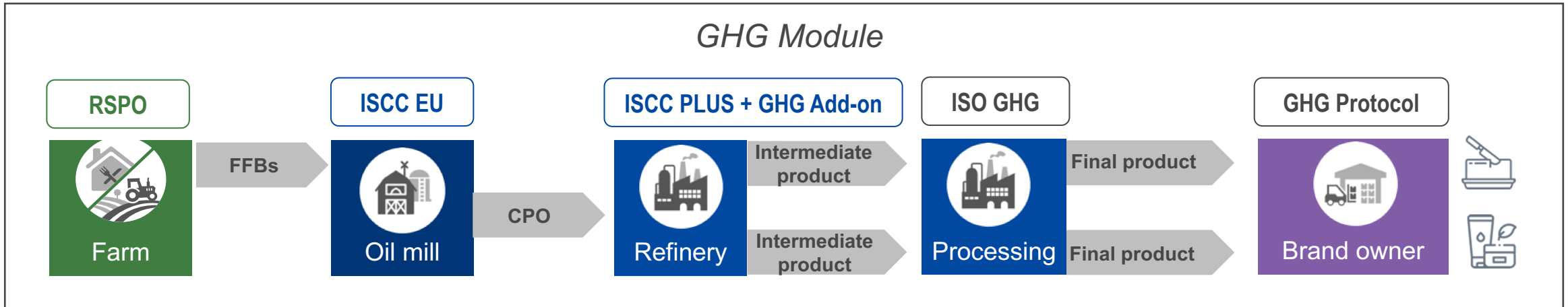
ISCC proposes to develop a GHG module that will provide system users a basis for credible and consistent GHG claims


Example



The final solution should work for all certification systems and also non-certified market operators

Example





Eligibility:

- ISCC EU: GHG calculation recognized
- ISCC PLUS: Voluntary GHG calculation recognized
- ISO/GHG Protocol: Certain prerequisites

Key elements for the implementation of a stand-alone ISCC GHG module



Supply chain requirements

- All elements covered / no gaps in chain of custody
- 3rd party verification at each site
- Forwarding one product specific GHG value
- Complementary to other certifications/ GHG standards



Adapted GHG methodology

- New ISCC system document and adapted audit procedures
- Base: ISCC EU methodology adapted to PLUS markets
- Excluding biofuel market references and specificities
- Including a set of requirements that must be fulfilled (e.g. allocation, emission savings/removals)



Trainings

- New 1 day ISCC online training for all interested parties
- Auditors
 - must have participated in the training and
 - work for a CB cooperating with ISCC



Audit and certificate

- Stand-alone certificate
- ISCC EU: no additional audit needed
- ISCC PLUS: on top of audit, additional seal and information included on PLUS certificate
- ISO, Carbon Credits, etc. compatible

In order to further develop a ISCC GHG Module a better understanding of the preferences of the downstream supply chain partners is needed

Proposal for next steps

- Develop a better understanding of supply chain partners GHG needs (footprint, GHG savings etc.) and potential claims
- Set up a pilot
- Refine the ISCC GHG Module

Your input is appreciated → Slido participants activity





Many thanks for your attention!

Follow us on   

ISCC System GmbH
Hohenzollernring 72, 50672 Cologne, Germany
Email: info@iscc-system.org