ISCC Solutions for the Bio-based and Circular Economy

Dr Jan Henke, ISCC System GmbH
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Solutions to **tackle plastic waste** are urgently needed

- **Microplastic**
  - > 1/3 of plastic used for packaging

- **Ocean plastic**
  - > 90% of plastic not recycled
  - Packaging waste ½ of plastic waste
  - Each year 9 mill. tons of plastic waste to oceans

- **Unused raw material**
  - 80% of plastic waste to landfill/environment
  - > 1/3 of plastic produced in 2015

Sources: Geyer (2017); Jambeck et al. (2015); National Geographic (2018), Eco-Business (2019)
Brand owners are committed to a bio-based and circular economy

"Evian pledged to make all of its plastic bottles from only recycled plastic by 2025."

"Unilever has committed to ensure all of its plastic packaging is designed to be reusable, recyclable or compostable by 2025."

"Nestlé has pledged to phase out all plastics that are not recyclable or are hard to recycle for all its products worldwide between 2020 and 2025."

"To increase the amount of recycled content in plastic bottles from "a paltry 7%" to 50% by 2030."

"2030 goal: Ensure 90% of product packaging is recyclable."

ISCC provides certification solutions for a sustainable bioeconomy and circular economy.
ISCC certification provides full traceability along the supply chain.
ISCC allows **physical segregation** in the supply chain if this is requested by customers

- **Physical segregation** of sustainable certified and non-certified material
- Deliveries **physically contain** 100% certified material
- **Possible claim**: 100% based on certified sustainable sources
Mass balance approach is mainly applied, e.g. to support the bio- and circular economy

- Sustainable, unsustainable or fossil material mixed, segregated in bookkeeping
- No entity sells more certified products than sourced (conversion factors applied)
- Possible claim: e.g. “linked to 100% recycled sources/ biogenic sources”
Different **logos and claims**, depending on the chain of custody option applied

### Physical Segregation

**Bio-based economy**
- ISCC [www.iscc-system.org](http://www.iscc-system.org)
  - CERTIFIED sustainable material

**Circular Economy**
- ISCC [www.iscc-system.org](http://www.iscc-system.org)
  - CERTIFIED recycled material

### Mass Balance

**Bio-based economy**
- ISCC [www.iscc-system.org](http://www.iscc-system.org)
  - MIX supporting certified sustainable material

**Circular Economy**
- ISCC [www.iscc-system.org](http://www.iscc-system.org)
  - MIX supporting certified recycled material

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Increasing number of ISCC members and System Users in the bio-based and circular economy

Independent ISCC certification:
- Sustainability
- Segregation or mass balance
- Traceability
- Feedstock identity
- Conversion factors/ volumes
- Add-ons (e.g. GHG/ LCA)
- Logos and claims
ISCC PLUS Training

Bio-based and Circular Economy

24 – 25 September 2019

Content:

- Comprehensive information about the ISCC PLUS certification system
- ISCC audit requirements and ISCC application along the supply chain
- Chain of custody options, mass balancing, yield calculations and attribution approaches
- Overview on logos and claims

ISCC training for the bio-based and circular economy in September

- Comprehensive two day training on ISCC PLUS certification and requirements
- Insights into the practical certification of the circular and bio-based economy
- Certification of complex supply chains in the chemical and downstream industries
- Physical segregation and mass balancing under ISCC PLUS
- Logos and claims for attributed products
- Auditing requirements
Many thanks for your attention!

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