ISCC PLUS for
the Circular and Bio-based Economy

Andreas Feige, Managing Director, ISCC System GmbH
Regional Stakeholder Dialogue, Berlin, 21 May 2019
Solutions to tackle plastic waste are urgently needed

- 450 mill. tons of plastic produced in 2015
- > 90% of plastic not recycled
- 80% of plastic waste to landfill/environment
- > 1/3 of plastic used for packaging
- Packaging waste ½ of plastic waste
- Each year 9 mill. tons of plastic waste to oceans - economic damage of up to 29,000€ per ton

Source: Beaumont et al. (2019); Geyer (2017); Jambeck et al. (2015); National Geographic (2018)
Brand owners are committed to bio- and circular economy

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

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

"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."

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

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

ISCC provides solutions for credible certification for a sustainable bioeconomy and circular economy
ISCC provides solutions for credible certification for a sustainable bioeconomy and circular economy

Examples

Biobased economy

Circular economy

Source: Adopted, European Bioplastics, Nijhuis Industries
ISCC certification ensures sustainability, traceability, feedstock identity and correct claims

Farms/Plantations/Points of Origin* 
FGP/Collecting Points 
Processing Unit 
Trader/Storage 
Market

Self-Declaration 
Sustainability Declaration 
Sustainability Declaration 
Sustainability Declaration

* Farms/Plantations and Points of Origin can get certified on a voluntary basis. Usually they are covered under the certificate of the FGP/CP. In this case they issue a self-declaration to the FGP/CP.
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”
Two ISCC chain of custody options for the bio- and circular economy

<table>
<thead>
<tr>
<th>Physical Segregation</th>
<th>Bioeconomy</th>
<th>Circular Economy</th>
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<tr>
<td>• Certified sustainable bio-based and unsustainable material <strong>physically segregated</strong></td>
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ISCC offers different **logos and claims**, depending on the chain of custody option applied.

### Physical Segregation

- **Bio Economy**
  - ISCC
  - www.iscc-system.org
  - CERTIFIED sustainable material

- **Circular Economy**
  - ISCC
  - www.iscc-system.org
  - CERTIFIED recycled material

### Mass Balance

- **Bio Economy**
  - ISCC
  - www.iscc-system.org
  - MIX supporting certified sustainable material

- **Circular Economy**
  - ISCC
  - www.iscc-system.org
  - MIX supporting certified recycled material
ISCC certification allows credible logos and claims. Examples from chemical / technical markets
SABIC and Unilever announced in 2019 to introduce ISCC certified circular polymers

PRESS RELEASE

DAVOS, SWITZERLAND, January 24, 2019

SABIC AND CUSTOMERS LAUNCH CERTIFIED CIRCULAR POLYMERS FROM MIXED PLASTIC WASTE

- SABIC and customers Unilever, Vinventions and Walki Group will introduce ISCC certified circular polymers in 2019 during a market foundation stage.
- SABIC's certified circular polymers will be produced in The Netherlands from a recycled plastic waste feedstock developed by PLASTIC ENERGY and offer a drop-in alternative for customers looking at meeting the needs of various challenging applications.
- The initiative to upcycle mixed plastic waste back to the original polymer supports SABIC’s and its feedstock supplier and customers commitment to providing innovative solutions for a circular economy.
ISCC PLUS has been updated to cover the circular economy

NEW ISCC PLUS System Document

Circular economy integrated

NEW self-declaration for mixed plastic waste

NEW procedures
Many companies use ISCC certification for industrial applications – ISCC PLUS has grown considerably in the last year

- Increasing number of system users in the biobased 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
Thanks for your attention!

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