Biodegradable plastics and revision of targets

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ISWA WGLI – Vice Chair
Agenda

- Directives under revision
- Content of directives
- Definition of bioplastics
- Impact of revision and possible outcomes
## Directives and targets

<table>
<thead>
<tr>
<th>Directive</th>
<th>Date</th>
<th>Min Recovery</th>
<th>Min. Recycling</th>
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</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>1994/62/EC</td>
<td>2002 50%</td>
<td>2008 60% 25%</td>
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<td>2004/12/EC</td>
<td></td>
<td>55%</td>
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<td>Bio waste</td>
<td>1999/31/EC</td>
<td>2006 75%</td>
<td>2009 50% 35%</td>
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<td>Landfill dir.</td>
<td>2016 35%</td>
<td>2015 Separate collection of plastic, metal, paper, glass</td>
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<td>2020 50% of HH waste</td>
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<td>2020 70% demolition waste</td>
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</tbody>
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Packaging and Packaging Waste Directive - PPW

Main contents of directive:

- Definitions
- Targets
- Recovery operations
- Essential requirements
Waste Framework Directive - WFD

Main contents of directive:

- Definitions
- Hierarchy
- Targets
- Calculation and reporting
Main contents of directive:

- Definitions
- Targets
- Treatments
What are Bioplastics

Bioplastics constitute a large family of different plastic materials that are biobased, biodegradable, or both.

With a current global market share of less than one percent, they represent an economically innovative sector that could drive further economic growth and employment, even in rural areas. Bioplastics can also make a considerable contribution to increased resource efficiency through biomass use cascades.

In case of biodegradable/compostable plastics, they can offer an important contribution in diverting food waste from landfill (or incineration).
Bioplastics

Based on renewable raw materials

Biopolymers
- e.g. Bio-PE (PP/PET), biobased PA, PTT

Conventional Polymers
- nearly all conventional plastics
- e.g. PE, PP, PET

Are biodegradable and based on renewable raw materials

Biopolymers
- e.g. PLA, PHA, Starch blends

Biopolymers
- e.g. PBAT, PBS, PCL

Are biodegradable

Petrochemical raw materials
Biodegradable plastics and EU legislation review

- Mandatory separate collection of organic waste – within maximum 2020
- Harmonization of definition of biowaste including packaging that can be composted
- Organic recycling supported by the EN13432 norm
- Clear rules for EPR schemes and level playing field with other packaging materials
- Progressive phase out of landfill as end of life option for biodegradable/compostable waste