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Online public consultation questionnaire

Fields marked with * are mandatory.	
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PART 1: General information about the respondent
Country of Origin Please add your country of origin, or that of your organisation. Belgium
am giving my contribution as: Academic/research institution Business association Company/business organisation Consumer organisation EU citizen Environmental organisation Non-EU citizen Non-governmental organisation (NGO) Public authority Trade union Other
First Name Oliver
Surname
Email (this won't be published) oliver.loebel@eureau.org

Please provide the following information about your organisation:

Organisation name:

255 character(s) maximum

EurEau		

Organization size

- Micro (1 to 9 employees)
- Small (10 to 49 employees)
- Medium (50 to 249 employees)
- Large (250 or more)

Transparency register number:

255 character(s) maximum

Check if your organisation is on the <u>transparency register</u>. It's a voluntary database for organisations seeking to influence EU decision-making.

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- Anonymous Only organisation details are published: The type of respondent that you responded to this consultation as, the name of the organisation on whose behalf you reply as well as its transparency number, its size, its country of origin and your contribution will be published as received. Your name will not be published. Please do not include any personal data in the contribution itself if you want to remain anonymous.
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- I agree with the <u>personal data protection provisions</u>

If you are answering as a professional, which of the following best describes your sector or, if an association, the sector that your association represents? (*you may only tick one box so choose carefully*)

- Polymer production (primarily biobased)
- Polymer production (primarily fossil-based)
- Plastics processing industry (primarily biobased, biodegradable or compostable)
- Plastics processing industry (primarily conventional ie fossil-based, non-biodegradable, non-compostable)
- Agriculture
- Fisheries

	Retail
	Private/public procurement of plastic products
	Hotel(s), restaurant(s) and catering
	Organisers of large public events (sports, concerts)
	Waste collection
	Public administration responsible for cleaning of litter
	Sorting and recycling industry
	Operators of compost/digestion plants
	Government (national, regional)
	NGOs and other civil society interest organisations
	Research/academia
	Standardisation and certification
0	Other

If you ticked other, please elaborate

Waste water service providers in charge of collecting and treating urban waste water, often also including road run-off. Many larger operators run digesters to treat sewage sludge and produce sewage gas.

Background to the survey

There is currently no EU policy in place applying to biobased, biodegradable and compostable plastics in a comprehensive manner. Therefore, in the <u>European Green Deal</u> and new <u>Circular Economy Action Plan</u>, the European Commission announced a policy framework on the sourcing, labelling and use of biobased plastics, as well as the use of biodegradable and compostable plastics.

In view of this framework, the Commission wishes to assess where the use of biobased feedstock leads to genuine environmental benefits, beyond reducing the use of fossil resources. The Commission also wishes to assess where using biodegradable and compostable plastics can be beneficial to the environment, and under which conditions.

What are biobased, biodegradable and compostable plastics?

There is widespread confusion among consumers about the nature, sustainability and environmental impacts of different types of plastics. The umbrella term "bioplastics" may be misleading as it is often used to describe, all together, materials of different properties, and thus combining the terms "biobased", "biodegradable" and "compostable".

Biobased plastics are fully or partially made from biological resources, rather than fossil raw materials. They are not necessarily compostable or biodegradable. It is important to examine the full life cycle of biobased plastics, to ensure they have a lower environmental footprint beyond the reduction in use of fossil resources.

Biodegradable plastics biodegrade in certain conditions only (e.g. biodegradable in soil or in the marine environment).

Compostable plastics are a subset of biodegradable plastics that only biodegrade in perfectly controlled conditions e.g. industrial composting facilities. "Home" compostable plastics (biodegradable plastics that

only biodegrade in somewhat controlled conditions e.g. home compost), may also exist. In some specific cases, these plastics can bring advantages compared to conventional, non-biodegradable or non-compostable plastics. Using biobased feedstock does not define the functional characteristics of the resulting plastics or whether they will be biodegradable or compostable. It is quite possible to have biodegradable or compostable plastics which are made from fossil feedstock and vice versa. It is also possible to have biobased plastics which are neither biodegradable nor compostable.

- * The Questionnaire includes two sets of questions.

 Please select the set of questions that best applies to you by clicking on the appropriate button. Note: If you select the first set for citizens/purchasers you will also be given the option of answering the second set, following completion, if you so wish.
 - Questions for citizens and other potential purchasers of biobased, biodegradable and compostable plastics. Answer these questions if you are a citizen or a procurer/user of plastic products (for example in the hotels, restaurants, canteens sector, agricultural sector, fisheries sector, organiser of large public events).
 - Questions for all other professionals and experts who have an interest in biobased, biodegradable and compostable plastics in their professional life.

PART 2: Questions for citizens and other potential purchasers of biobased, biodegradable and compostable plastics.

Q1: Have you ever purchased or received plastics that have been described or marked as follows?

Description	Yes	No	I don't know
Bioplastic	•	0	0
Biobased plastic	0	0	•
Biodegradable plastic	0	0	•
Compostable plastic	•	0	0

Q2: If you answered yes to Question 1, for which purposes have you purchased or received such plastics? (*You may tick more than one box in each row*)

	Biobased plastic	Bio- degradable plastic	Compostable plastic	I don' t know
Packaging				
Shopping bag				
Bin liner or bag for the residual waste bin (waste that cannot be separated)				

	 Bag for the biowaste bin (food and kitchen waste) 		
	 Food and drinks packaging (take-away cups, containers and other food and drinks packaging) 		
	Other packaging		
	Clothing		
	Footwear		
	Agricultural mulch films		
	Plastic plant pots		
Proc	lucts other than those listed above:		

Q3: How likely are you to purchase these kinds of plastics in the full	ture?

Designation	Very likely	Quite likely	Not very likely	Don't know
Biobased plastic	0	0	0	0
Biodegradable plastic	0	0	0	0
Compostable plastic	0	0	0	0

Q4: How do you normally dispose of the following types of plastics?

Type of plastic	Mixed waste	Waste container for plastics (i.e. plastics recycling)	Home compost	Waste container for biowaste (food and kitchen waste)	l don' t know
Fossil-based, non- biodegradable, non- compostable plastic					
Biobased plastic (non- biodegradable, non- compostable)					
Biodegradable plastic					
Compostable plastic					

Designation	No separate waste system available	Unclear about which separate waste system to use	Don't believe it will make a difference	Other	do t kno
Fossil-based (non- biodegradable, non- compostable) plastic	•	•	0	0	0
Biobased (non- biodegradable, non- compostable) plastic	•	•	©	0	0
Biodegradable plastic	0	0	0	0	0
Compostable plastic	0	0	0	0	0

Q6: How well do you consider that you are informed about the correct usage and disposal of the following types of plastics?

Designation	Very well informed	Well informed	Moderately Informed	Slightly informed	Not informed at all	l don't know
Fossil-based (non-biodegradable, non-compostable) plastic	0	0	•	0	0	0
Biobased (non-biodegradable, non-compostable) plastic	0	0	0	0	0	0
Biodegradable plastic	0	0	0	0	0	0
Compostable plastic	0	0	0	0	0	0

Q7: How well do you consider that you are informed about the environmental benefits and risks of the following types of plastics?

Designation	Very well informed	Well informed	Moderately informed	Slightly informed	Not informed at all	l don't know
Fossil-based (non-biodegradable, non-compostable) plastic	0	0	•	0	0	0
Biobased (non-biodegradable, non-compostable) plastic	0	0	0	0	0	0
Biodegradable plastic	0	0	0	0	0	0
Compostable plastic	0	0	0	0	0	0

Q8: If you consider yourself well, or very well informed, where did you gain this information? (You may tick more than one box in each row)

	Product labelling	Information from waste collector	Information from other public authorities	Information from media	Other	I don' t know
Fossil-based (non-biodegradable, non-compostable) plastic						
Biobased (non-biodegradable, non-compostable) plastic						
Biodegradable plastic						
Compostable plastic						

	Designation		Yes	No	Depends on how is sourced /used/ disposed of		l don't know			
	Biobased plastic (non-biodegradable, rompostable)	non-	0	0	0		0			
	Biodegradable plastic		0	0	0		0			
	Compostable plastic		0	0	0		0			
Q10: As far as you are aware, what are the potential environmental benefits of the following types of plastics compared to conventional (i.e. fossil-based non-biodegradable, non-compostable) plastics? (You may tick more than one box in each row)										
		bio	obased (odegrada compos plastic	able, table)	Biodegradable plastic	Compostable plastic	l don't know			
	Less environmental impacts during the production of these plastics									
	Less greenhouse gas emissions over the life-cycle (including production and disposal)									
	Avoids harmful substances in the production of these plastics									
	Biodegrades in composting facilities together with food and kitchen waste									
	Readily biodegrades into harmless components if left in the open environment (land or sea)									
	Readily biodegrades into harmless components if incorporated in the soil for suitable biodegradable plastic applications									
Q11	: As far as you are aware, if a product is	labelle	d as 'bio	based',	can it still include a c	ertain percentag	e of raw			

Q9: As far as you are aware, are the following types of plastics environmentally preferable compared to

conventional (i.e. fossil-based non-biodegradable, non-compostable) plastics?

Please elaborate if you selected 'other' in any row above:

materials from fossil sources?

YesNo

Q14 (food	pletely biodegrade into harmless components, if littered in the 1 month 6 months 1 year At least 5 years I don't know In your opinion, if citizens are supplied with compostable plad and kitchen waste) and are also informed about their correctwing effects?	astic bags	for the separate		
		Very likely	Moderately likely	Low likelihood	I don't know /no opinion
	More consumers would collect biowaste (food and kitchen waste) separately.	0	0	0	0
	Some of the compostable plastic bags will be used for other purposes than for collecting biowaste (food and kitchen waste) separately	0	0	0	0
	Some of the compostable plastic bags would be discarded in the separate collection of plastics intended for material recycling (ie plastics recycling)	0	0	0	0
	The compostable plastic bags would be more likely to be littered in the open environment than conventional plastic bags	0	0	0	0
Plea	se specify other risks that you consider likely:	,			
	: In your opinion, if plastics labelled as "biodegradable" or "co each of the following effects?	ompostabl	e" become more	widespread, h	now likely

Q12: Do you think that plastic products labelled as 'biobased' should display the share that comes from biological

Q13: As far as you are aware, approximately how long does it take plastics that are labelled as "biodegradable" to

sources (e.g. biomass such as plants and biowaste) rather than fossil sources?

Don't knowNo opinion

YesNo

Don't knowNo opinion

	Very likely	Moderately likely	Low likelihood	I don't know /no opinion
Biodegradable or compostable plastics will be properly used and disposed of, if properly labelled and information is given on their disposal pathway	0	•	0	0
People will not look at the labels and will use biodegradable or compostable plastics in the same way as conventional ones	0	•	0	0
People will litter more with plastics in the open environment	•	0	0	0
People will purchase more plastics	0	•	0	0
Biodegradable or compostable plastics will be disposed of in separate collection of plastics intended for material recycling (ie plastics recycling)	0	0	•	0
Q16: What kind of assistance is most likely to help you to use and compostable plastics in the right way? (You may tick up to three is between 1 and 3 choices Colour coding Information campaigns Guidance text on the product Pictograms on the product Pictograms on the product are the same as pictograms or Reference to a standard, certification scheme or label QR code with a link to additional information Other	types of a	ssistance)		
Please elaborate if you selected 'other' in any row above:				
Q17:To what extent would you support the following policy measubiodegradable and compostable plastics?	ures guidii	ng the use and c	disposal of biol	oased,
Ver	y Re	asonably	lot Not	I don't know

Reasonably

well

that

much

at

all

Very

much

Policy measure

/no

opinion

Label for biobased plastics only allowed if the biobased content (e.g. biomass) exceeds a minimum threshold	•	•	0	0	0
Minimum EU sustainability requirements for plastics labelled as 'biobased' are defined	•	0	0	0	0
Limit the use of biodegradable plastics in the open environment to products that are difficult to collect (e.g. plastics on agricultural fields, plastic clips for trees, plastic components in fireworks)	0	•	0	0	•
Limit the use of compostable plastics to products that are difficult to separate from food waste and are likely to end up with food waste (e.g. fruit stickers, tea bags, coffee pods)	0	•	0	0	0
Ban plastics that are simply labelled as 'biodegradable', and have no specifications on the suitable receiving environment	•	0	0	0	0
Require that plastics that are labelled as 'compostable' display information on their intended collection and disposal pathway	•	0	0	0	0
Information campaigns on the difference between biobased, biodegradable and compostable plastics and how they should be used and disposed of	0	•	0	0	0

ls th	ere other action that you think is important?		

- * Do you now wish to answer the questions for professionals and experts, or are you finished?
 - Yes, I'd like to answer the questions for professional and experts
 - No I'm finished

PART 3: Questions for all other professionals who have an ACTIVE interest in biobased, biodegradable and compostable plastics in their professional life

EQ1: As you may know, the term "bioplastic" is not specific and can be misleading, as it covers a whole range of plastics with different properties that can be ecologically favourable or unfavourable, depending on the application and other circumstances including end of life. However, it is assumed that many consumers have positive associations with the term "bioplastics".

In light of this: Would you prefer to avoid using the term "bioplastic" when communicating with consumers to avoid potentially misleading associations?

 No Don't know/No opinion Questions concerning biobased plastic	cs							
EQ2: Currently, under available standards, the biological e.g. biomass rather than fossil southere be a minimum biobased content for place of the pl	rces) f	or plastic	cs to be l	abelled a	ıs "biobas			
EQ3: If you answered yes to EQ2, in your op	pinion,	what sho	ould the a	minimum 50%	biobased	80%	be?	Don't know /No opinion
Minimum share of biogenic carbon in 'biobased plastics'		0	0	0	0	0	•	0
 Yes No Don't know/No opinion EQ5: If you answered yes to EQ4, which me for communication to consumers?	thod w	ould you	ı prefer t	o use in c	order to c	alculate t	he biobas	ed content
	Yes	No	Don't	: know/No	opinion			
Based on C14 measuring	0	0		•				
Based on a mass balance approach	•	0		0				
Other	0	0		•				
If other, please elaborate on your answer:								
EQ6: Depending on the production proce different lifecycle environmental footprints Footprint method could make energy contabased plastics.	s. A sta	andardis	sed Life	Cycle As	ssessme	nt or Pro	duct Env	ironmental

In your opinion, are there any gaps in LCA knowledge and Environmental Footprint methods for comparing

biobased and fossil-based plastics?

(Don't know/No opinion				
If yo	u answered yes or no, please elaborate on your ansv	ver:			
	Include the environmental impact from the biomass the use of water and pesticides and the impact on e End of life: The time required to re-capture (for example the production, use and disposal of these materials to possible recycling scenarios. The system boundar potential impacts (correct versus incorrect disposal	utrophication, nple through t should be tak ries should al	next to climate ree re-growth en into accounts of include the	ate change and n) the GHG em unt. This should	d energy use. hissions linked to d be compared
	: In your opinion, should the EU develop sustainabilit	y criteria for th	ne feedstock	used to produ	ce biobased
(Yes				
(○ No				
(Don't know/No opinion				
If vo	u answered no, please elaborate on your answer:				
ii yo	u answered no, piease elaborate on your answer.				
EQ8	: If you answered yes to EQ7 above, which of the ap	•	•		
(a) Use the sustainability criteria defined for feedst		ls as in the R	enewable Ene	rgy Directive (2018
(/2001) and related Commission's proposal (2021/b) Use the sustainability criteria defined for feedst	, , , ,	ls as in the R	enewahle Ene	eray Directive (2018
,	/2001) and related Commission's proposal (2021/				,
	take account of specificities of biobased plastics	. , , ,			•
(Develop a new set of sustainability criteria that	do not take th	e criteria def	ined for feedst	ock for biofuels as
	a starting point				
(Don't know/no opinion				
Plea	se explain your answer to EQ8				
	so explain your anower to Equ				
	: If you answered b) or c) to EQ8 above, please indiculd be included:	ate the extent	t to which the	following type	s of criteria
	Criteria type	Definitely	Perhaps	Definitely not	Don't know /no opinion
	Life cycle GHG emissions savings	•	0	0	0
	Protection of land with high carbon stock	•	0	0	0

YesNo

Protection of wetland and peatland

Protection of land with a high biodiversity value

Protection of forests	•	0	0	0
Land-use, land-use change and forestry (LULUCF) criteria	•	0	0	0
Protection of soil quality	•	0	0	0

Please name any additional/alternative criteria type that you think should be included

Length of the carbon cycle (time needed to recapture the carbon released at the end of the product life, for example through the re-growth of trees) compared to possible recycling scenarios. The origin of the biomass (transport, growth conditions) must also be taken into account.

EQ10: If you answered a) or b) to EQ8 earlier, please indicate the extent to which the following provisions, as defined in the Commission's proposal to revise the Renewable Energy Directive (2021/0218 (COD)), should be included:

Provision	Definitely	Perhaps	Definitely not	Don't know /no opinion
Agricultural or forest biomass is not obtained from land with high biodiversity value, in or after January 2008	•	0	0	0
Agricultural or forest biomass is not obtained from land with high carbon stock, in or after January 2008	•	0	0	0
Agricultural or forest biomass is not obtained from land that was peatland in or after January 2008	•	0	0	0
Revised criteria on harvesting, notably on maintenance of soil quality and biodiversity	•	0	0	0
Revised criteria for life cycle GHG emissions savings	•	0	0	0
Biomass respects the waste hierarchy and the cascading principle	•	0	0	0

EQ11: To what extent would you support the following policy measures to maximise the potential benefits of biobased plastics?

Policy measure	Very much	Reasonably well	Not that much	Not at all	Don't know /no opinion
Keep policy as it is	0	0	0	•	0
Minimum threshold of biobased content that must be exceeded before plastics may be labelled as 'biobased'	•	0	0	0	0

Minimum EU sustainability criteria for the biobased content of biobased plastics	•	0	0	0	0
Promotion by the European Commission of a voluntary 'biobased plastic' label	0	0	•	0	0
Regulatory mechanism that defines under which circumstances biobased plastics are to be preferred over (virgin) fossil-based plastics	•	0	0	0	0
Regulatory mechanism that prescribes the mandatory use of biobased plastics (complying with sustainability criteria) for specific applications	•	•	0	0	0
Regulatory mechanism that ensures that biobased plastics (complying with sustainability criteria) are counted towards mandatory recycled content targets	0	0	•	0	•
Measures to increase the use of biobased plastics in public procurement contracts for products and services	0	•	0	0	0
Voluntary pledges by producers of plastics resins or manufacturers of plastic products to increase the level of biobased content in certain products	0	•	0	0	0

Please elaborate as necessary on your answers

The most interesting biobased plastics are based on recycled biomass that would otherwise be wasted. Petrol-based plastics can be interesting when based on the unused part of fuel production.

Are there other policy measures that you think are important?

To avoid confusion and environmental hazards, the minimum threshold biobased content that must be met before plastics may be labelled as 'biobased' must be 100%. Other plastics must be called 'contains biobased plastics" AND/OR 'partly biodegradable plastics.

Questions concerning biodegradable and compostable plastics

EQ12: The table below displays a number of EU standards that provide the basis for certification of biodegradability as well as compostability in diverse matrices (compost, aqueous medium, use in agriculture) *

EN 13432	Packaging - Requirements for packaging recoverable through composting and biodegradation - Test scheme and evaluation criteria for the final acceptance of packaging
EN 14995	Plastics - Evaluation of compostability - Test scheme and specifications
EN 17033	Plastics - Biodegradable mulch films for use in agriculture and horticulture - Requirements and test methods
EN ISO 17556	Plastics - Determination of the ultimate aerobic biodegradability of plastic materials in soil by measuring the oxygen demand in a respirometer or the amount of carbon dioxide evolved
EN ISO 14851	Determination of the ultimate aerobic biodegradability of plastic material in an aqueous medium, Method by measuring the oxygen demand in a closed respirometer
EN ISO 14852	Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium, Method by analysis of evolved carbon dioxide
EN ISO 14855-1 and -2	Determination of the ultimate aerobic biodegradability and disintegration of plastic material under controlled composting conditions by analysis of evolved carbon dioxide Part 1: General method Part 2: Gravimetric measurement of carbon dioxide evolved in a laboratory-scale test

In your opinion, as a basis for certification of biodegradable as well as compostable plastics, to what extent are the listed standards and test methods applicable? For instance, considering the comments of the scientific advice as reported by SAPEA (2020) [1]

[1] SAPEA, Science Advice for Policy by European Academies. (2020). Biodegradability of plastics in the open environment. Berlin: SAPEA. doi:10.26356/biodegradability plastics

	The standard is sufficient as a basis for labelling	The standard needs minor adjustments if used for labelling	The standard needs major adjustments if used for labelling	Don't know /No opinion
EN 13432	0	•	©	•
EN 14995	•	•	©	•
EN 17033	0	0	©	•
EN ISO 17556	0	•	©	•
EN ISO 14851	0	•	©	•

EN ISO 14852	•	•	•	•
EN ISO 14855- 1 & 2	•		•	•

Please elaborate on your answer above:

The criteria must ensure biodegradability in sewers (between 3 hours in a small village and 24 hours in more extended sewage systems), and comply with the environmental quality standards for surface waters (i.e. micropollutants).

EQ13: Do you see the need for additional	standards for compostability	in technical systems like	e facilities for
composting or anaerobic digestion?			

- Yes
- O No
- Don't know/No opinion

lt	yes,	please	specify	here:
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EQ14: Do you think that additional requirements are needed to assess compostable plastics?

	Yes	No	Don't know /no opinion
European Standard defining criteria and method to assess suitability for home composting [1]	•	0	0
Update of standard EN 13432 (e.g. definition of worm test)	0	0	•
Other, please specify below	0	0	0

[1] There is currently no international standard specifying the conditions for home composting of biodegradable plastics. However, there are several national standards, such as the Australian norm AS 5810 "Biodegradable plastics – biodegradable plastics suitable for home composting". Belgian certifier TÜV Austria Belgium had developed the OK compost home certification scheme, requiring at least 90% degradation in 12 months at ambient temperature. Based on this scheme, the French standard NF T 51-800 "Plastics — Specifications for plastics suitable for home composting" was developed, specifying the very same requirements for certification.

Other additional requirements

The behaviour in waste water collection and treatment (total retention time about one day) must be established (including the potential to cause pipe and pump blockage etc.). Negative impacts on the environment (soil, water) must be excluded. Compostable plastics must not contain or degrade into hazardous substances (PFAS, ink, additives) or micro- or nanoplastics. Clear composting guidelines on the plastic material are required.

EQ15: In your opinion, do non-biodegradable	additives to plast	cs potentially p	ose an env	ironmental r	isk fol	lowing
break-down of compostable or biodegradable	plastics?					

0	Yes
~	100

O No

Don't know/No opinion

EQ16: If you answered yes to EQ15 above, in your opinion, is this risk sufficiently regulated?

Yes

No

Don't know/No opinion

If you answered No to EQ16 above, what kind of policy options would you recommend?

Biodegradable / compostable plastics must not contain hazardous non-biodegradable additives (including inks) that could be released to the environment after the end of the product life. They should not degrade into micro- or nanoplastics that could pollute the aquatic environment or sewage sludge.

EQ17: Microplastics can be emitted to the environment through degradation processes, as an intrinsic part of the use of the product (e.g. abrasion of paint, tyres, shoes, textiles, fishing gear, aquaculture nets etc.). To what extent do you consider that biodegradable plastics might be part of the solution for microfibers and microplastics releases to the environment?

	Very much	To a fair degree	To a limited degree	Not at all	No opinion/ don't know
Biodegradable plastics can be part of the solution	0	0	•	0	•

Please elaborate on your answer

Generally, the most sustainable solution is to drastically reduce the overall use of plastic in all products /sectors. If a use cannot be replaced, the most sustainable plastic solution should be used. In a number of cases, this will be biodegradable plastics, in others, it may be a different solution.

Looking at the waste hierarchy, the first goal is waste avoidance. This means products should first of all be durable to extend their useful service life. It must be verified whether biodegradable plastics would guarantee the durability of the above-mentioned products. The waste hierarchy then calls for recyclability, which means closed product cycles. If we let waste biodegrade, it is no longer available for recycling purposes.

The above-mentioned products contain numerous hazardous substances (additives) that could leach out in the (aquatic) environment or end up in sewage sludge.

EQ18: Please provide your opinion on whether or not there are environmental benefits from using biodegradable or compostable plastics (or altermatives) for the following list of products, while at the same time minimising environmental risks or risks to the waste management processes

	Strong benefits to be gained by using biodegradable plastics	Strong benefits to be gained by using compostable plastics	Replace conventional plastics with alternative biodegradable /compostable materials (e.g. paper / other)	Do not replace conventional plastics with biodegradable, compostable plastics or alternatives	Don't know /no opinion
Bags for biowaste (food and kitchen waste)	0	•	©	©	0
Shopping bags	0	0	•	0	0
Very light bags for fruit and vegetables	0	0	•	©	0
Thin film applications for fruit, vegetables and perishable food products	0	0	•	©	•
Fruit labels	0	•	0	0	0
Coffee capsules	0	0	0	0	•
Tea bags & coffee pods	0	•	0	0	0
Packaging for fast moving consumer goods (e.g. personal care products, detergents)	•	•	•	•	•
(Plastic) bottles	0	0	0	•	0
Catering items (such as cups and food containers)	0	•	©	©	0
Clothing	•	0	0	0	0

Footwear	•	0	0	0	0
Agriculture mulch films	0	0	•	0	0
Other agriculture and horticulture applications	0	0	•	0	0
Fishing gear	0	0	0	0	•
Geotextiles	0	0	0	0	•
Buildings & construction	0	0	0	•	0
Coatings & adhesives	0	0	0	0	•
(Outdoor) paints	0	0	0	0	•

Othe	er products for which strong environmental benefits would be gained by using biodegradable or compostable
plast	tics (please specify which products)

EQ19: As a composting or anaerobic digestion operator/waste manager/local authority have you experienced:

	Never	Occasionally	Sometimes	Often	Don' t know	Not relevant to me
Biodegradable or compostable plastics in the separate plastics stream for material recycling	•	0	0	0	0	0
Problems caused in material recycling by biodegradable or compostable plastics	0	0	0	0	0	•
Use of conventional plastic bags for holding biowaste (e.g. food and kitchen waste) intended for composting	0	0	0	0	0	•
Problems caused in composting by conventional plastics	0	0	0	0	0	•
Certified EN 13432 compostable plastic bags and compostable plastic packaging that have not completely broken down after a full aerobic compost cycle	0	0	0	0	0	•
Increased littering by biodegradable or compostable plastics-based products (e.g. bags) in the open environment	0	0	0	0	•	0
Increased littering by conventional, non-biodegradable/non-compostable plastics-based products (e.g. bags) in the open environment	0	0	0	0	•	0
Biodegradable mulch films that have not broken down in the soil	0	0	•	0	0	0
Biodegradable mulch films that have been transferred to other environmental media like water without breaking down	0	0	•	0	0	0
Other (please specify):	0	0	0	0	0	0

Other (please specify):

These answers were given as waste water operators (= composting or anaerobic digestion):

- increased littering (containing bioplastics) in the open environment might lead to more polluted rainwater and therefore some remaining pollution after treatment
- time spent in the waste water treatment plant and biodegradability during 20 days
- non biodegradable plastics may pollute sludge

EQ20: To what extent would you support the following policy measures to maximise the potential benefits of biodegradable, compostable plastics while at the same time minimising environmental risks?

	Fully agree	Partially agree	Neutral	Partially disagree	Completely disagree	Don't know /No opinion
Adopt a definition of biodegradation as a system property which takes into account both the properties of the material and specific environmental conditions for biodegradation	•	©	•	•	©	•
Limit the use of biodegradable plastics to specific applications for which reduction, reuse, and recycling are not feasible	0	•	•	•	•	•
Limit the use of biodegradable plastics to specific applications where collection from the open environment is not feasible	0	0	0	0	0	•
Do not consider biodegradable plastics as a solution for inappropriate waste management or littering, under any circumstances	•	0	0	0	©	0
Develop additional standards for biodegradability in specific receiving environments such as the marine environment, the freshwater environment and/or the terrestrial environment	•	•	0	©	©	0
Promote the supply of accurate information on the properties, appropriate use and disposal, and limitations of biodegradable plastics to relevant user groups	•	0	0	•	©	0

Ban the labelling of plastics as 'biodegradable', where it is not accompanied by specification of the suitable receiving environment(s)	•	©	0	©	©	•
Limit the use of compostable plastics to products that are difficult to separate from food waste and are likely to end up with food waste (e.g. fruit stickers, tea bags, coffee pods)	©	•	0	•	©	•
Require that plastic packaging that is labelled as 'compostable' is certified according to EN 13432	0	0	•	0	0	0
Require that plastic packaging that is labelled as 'compostable' displays information on its intended collection and disposal pathway	•	0	0	0	0	0

Other suggestions for policy options / Comments:

Toilets are still used as disposal route for all kinds of plastics, and this may damage the waste water infrastructure and may lead to the generation of microplastics. Another route may be from road run-off of plastic litter into combined sewers. Hence, clearly defining biobased plastics, biodegradable and compostable plastics is important, but will not solve this problem of the waste water sector. The following additional actions are necessary:

Reducing the overall plastic consumption, in particular that of single-use plastics, is the best way forward. The label on "intended collection and disposal pathways" should not be limited to compostable plastics but include all biodegradable plastics. The label should include a pictogram advising that disposal through the toilet is not allowed.

Standards for biodegradability in specific receiving environments should include the waste water treatment infrastructure.

You are welcome to upload documents that support your answers to the survey:

c27a77d2-8762-42ca-a1e5-d4a0b1b6b9e0
/EurEau_Briefing_Note_Microplastics_and_the_Water_Sector__fin_.pdf

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