

PACK FOR THE FUTURE

Recyclable solutions for everyday packaging



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Welcome

At Pack for the Future you'll find recyclable solutions for a selection of everyday types of packaging that have previously been difficult or impossible to recycle. Each one is an alternative that is ready-made and available to producers today.

What can you expect?

1. Fair: see and touch the solutions.
2. Conferences: learn more about the latest solutions & trends.
3. Conversation: connect with your peers, experts and knowledge institutions.

Discover a recyclable alternative for your packaging!

Companies in the Netherlands and Belgium have committed to eliminating all non-recyclable packaging, replacing it with more sustainable alternatives. Despite progress, there is still packaging that is difficult to recycle or causes problems in sorting centres.

At Pack for the Future, we bring together 21 leading packaging suppliers who will present their recyclable alternatives. This offers companies an opportunity to discover the latest innovations in the packaging world.

A unique Dutch-Belgian initiative

Pack for the Future is a joint initiative of Verpact and Fost Plus and is being organised in collaboration with Wageningen University & Research.

In-depth sessions on the first floor in 'Kleine zaal'

Session 1 | PPWR: what needs to be done now?

- Paul Christiaens, Specialist International Developments | Verpact
- Floriane de Kerchove, Public & Regulatory Affairs Manager | Fost Plus

During this session, we will explain the key implications of the PPWR and discuss which measures organizations must take NOW to prepare effectively.

Session 2 | Design for Recycling (D4R)

- Ulphard Thoden van Velzen, Senior Researcher Packaging Technology | Wageningen University & Research

The PPWR Regulation requires higher recycling and reuse of recyclate in plastic packaging, making (recyclable) design increasingly important. In this session, we will consider what this means for the Design for Recycling guidelines and how they are likely to develop in the future.

Session 3 | Delegated Act on Design for Recycling

- Annemarie Abbeel, Senior Expert Design for Recycling | Fost Plus
- Filip Vangeel, Sustainability Manager | Valipac
- Karen van de Stadt, Strategic Packaging Expert | Verpact

In this session, we delve deeper into the recyclability of household and commercial packaging under the PPWR and consider what companies can already do to prepare.

Session 4 | Effect of labels and adhesives on recyclability

- Elke Gijsbrechts, Sustainability Expert | Fost Plus
- Niels van Marle, Senior Packaging Expert | Verpact

Labels and adhesives that do not detach disrupt recycling and reduce the quality of the recyclate. In this presentation, we present a practical assessment framework that helps to evaluate removability and thereby improve recycling efficiency and recyclate quality.

Challenging packaging

1. Dairy

Ice cream cornets



Problem:

- Often paper/ alu / plastic which is not recyclable in the current infrastructure of sorting and recycling and not suited for paper cardboard stream.
- Alternatives in high barrier paper are probably not suited for paper cardboard stream due to presence of fatty food residues (oil, ice cream, chocolate).

Solutions: No solutions will be presented.

2. Dairy

Butter wrappers



Problem:

- Paper/ alu / plastic is often used which is not recyclable in the current infrastructure of sorting and recycling.
- It is not suited for the paper cardboard stream as butter leaves fat residue.
- Deadfold is important.

Solutions: 2 will be presented.

3. Dairy

Soft cheeses



Problem:

- Often paper/alu/plastic sometimes alu layer.
- Not recyclable in the current infrastructure of sorting and recycling.
- The new packaging should be able to breathe, due to the 'sweating' of the cheese.

Solutions: 3 will be presented.

4. Dairy

Mozzarella with liquid



Problem:

- This is often an OPA/PE combination which is not recyclable in current sorting and recycling infrastructure.

Solutions: 10 will be presented.

5. Dairy

Grated cheese



Problem:

- This is often an OPA/PE, PET/PE-EVOH or similar material which is not recyclable in the current infrastructure of sorting and recycling.
- The product needs a medium gas barrier. The product is packaged under MAP light carbon dioxide gas to prevent blue mold.

Solutions: 14 will be presented.

6. Dairy

Heavier products such as blocks of cheese



Problem:

- Too much stretching of PE bottom film during filling with heavy weight cheese if no PA is used.
- Multilayers like PET/PE or OPA/PE are not recyclable in the current infrastructure of sorting and recycling.
- Technical solutions needed: PE mono material with enough strength that can run on the filling line.

Solutions: 13 will be presented.

7. Meat

Shrink bags for pieces of meat



Problem:

- These are often PVC based structures or multimaterials like e.g. OPA/PE, PET/PE-EVOH or similar which are not recyclable in the current infrastructure of sorting and recycling.

Solutions: 2 will be presented.

8. Coffee

Ground and beans coffee



Problem:

- Often aluminium laminates (plastic/alu/ plastic) are used.
- Laminates containing a layer of aluminium ($>1\mu\text{m}$) are not recyclable in the current infrastructure of sorting and recycling.
- Multi-material combinations like PET/PE or OPP/PETmet/PE are often used which are not recyclable in most of the current infrastructure of sorting and recycling.
- Add-ons like a coffee valve can also contain non-recyclable elements.

Solutions: 7 will be presented.

9. Coffee

Ground coffee – vacuum pack



Problem:

- This is often an OPA/PE combination which is not recyclable in current sorting and recycling infrastructure.

Solutions: 3 will be presented.

10. Bread

Multi-material fresh dough bake-off solutions



Problem:

- Multi material solutions paper and aluminium (or for other products plastic with metal) are currently not recyclable, neither with paper nor with aluminium.

Solutions: No solutions will be presented.

11. Sweets

Chocolate bars



Problem:

- Aluminium layer is PVC coated. PVC is not recyclable in the current infrastructure of sorting and recycling and it hinders the recycling of other materials when sorted wrongly. PVC disturbs incineration of residue.
- Other combination of materials - for example paper/alu - will also not be recyclable.

Solutions: 5 will be presented.

12. Spices

Spice jars



Problem:

- Spice jars are a combination of glass/ label/plastic cap. This is a combination which is not optimal recyclable. Heavy closure with grinder function. No re-use function.

Solutions: 2 will be presented.

13. Spices

Spice bags



Problem:

- PVC in packaging for spices.
- PVC is not recyclable in the current infrastructure of sorting and recycling and it hinders the recycling of other materials when sorted wrongly.
- PVC disturbs incineration of residu.

Function: Recyclable barrier packaging without PVC.

Solutions: 9 will be presented.

14. Food

Pizza packaging warm and cold



Problem:

- Only clean paper/cardboard packaging is allowed in that stream because food residue will pollute the paper feedstock.

Solutions: 2 will be presented.

15. Food

Aluminium seals



Problem:

- Aluminium seals that leave a residue of alu pieces on plastic pots/ glass pot. That can hamper recycling of the main material.

Solutions: 3 will be presented.

16. Non-food

Paper/ plastic blister combinations for tools, toys, home and personal care etc.



Problem:

- These contain often PVC/PET in combination with cardboard; the fibers are lost and pollute plastic stream. If it contains PVC it will hamper the recycling of the other plastics.

Solutions: 1 will be presented.

17. Processed Meat

Best possible tray lay-out



Problem:

- MAP (Modified Atmosphere Packaging) for processed meat often consist of limited or non-recyclable multimaterial combinations of PET, PE, PP, EVOH, PA which are often not recyclable in the current infrastructure of sorting and recycling.

Solutions: 16 solutions will be presented.

18. Fish

Best possible packaging for mussels



Problem:

- Mussels can be sharp and the film is therefore enhanced with PA. Film with high amount of PA is not ideally recyclable.

Solutions: 1 solution will be presented.

19. Food

Best possible packaging for metal clips



Problem:

- These are often multi-materials like e.g. OPA/PE, PET/PE-EVOH or similar which are not recyclable in the current infrastructure of sorting and recycling and they often have a metal clip which is not compatible with plastic recycling.

Solutions: 1 will be presented.

20. Confectionary/ Drugstore

Best possible blisters for capsules



Problem:

- Blister packaging is often PVC based, is there a solution that has a foil/film that is easy to push through in order to remove the medication or the sweets, but strong enough to protect against accidental opening or puncturing?
- PVC is not recyclable in the current infrastructure of sorting and recycling and it hinders the recycling of other materials when sorted wrongly.
- PVC disturbs incineration of residue.

Solutions: 4 will be presented.

21. Meat

Absorber in a PET tray



Problem:

- Absorbent pads are usually made of different polymers and are not recyclable in the current infrastructure of sorting and recycling.
- Absorbent pads contain food residues and are moist after use. Fibre-based versions are therefore not suitable for recycling into the paper cardboard stream.

Solutions: 2 will be presented.

22. Other

White HDPE with black layer

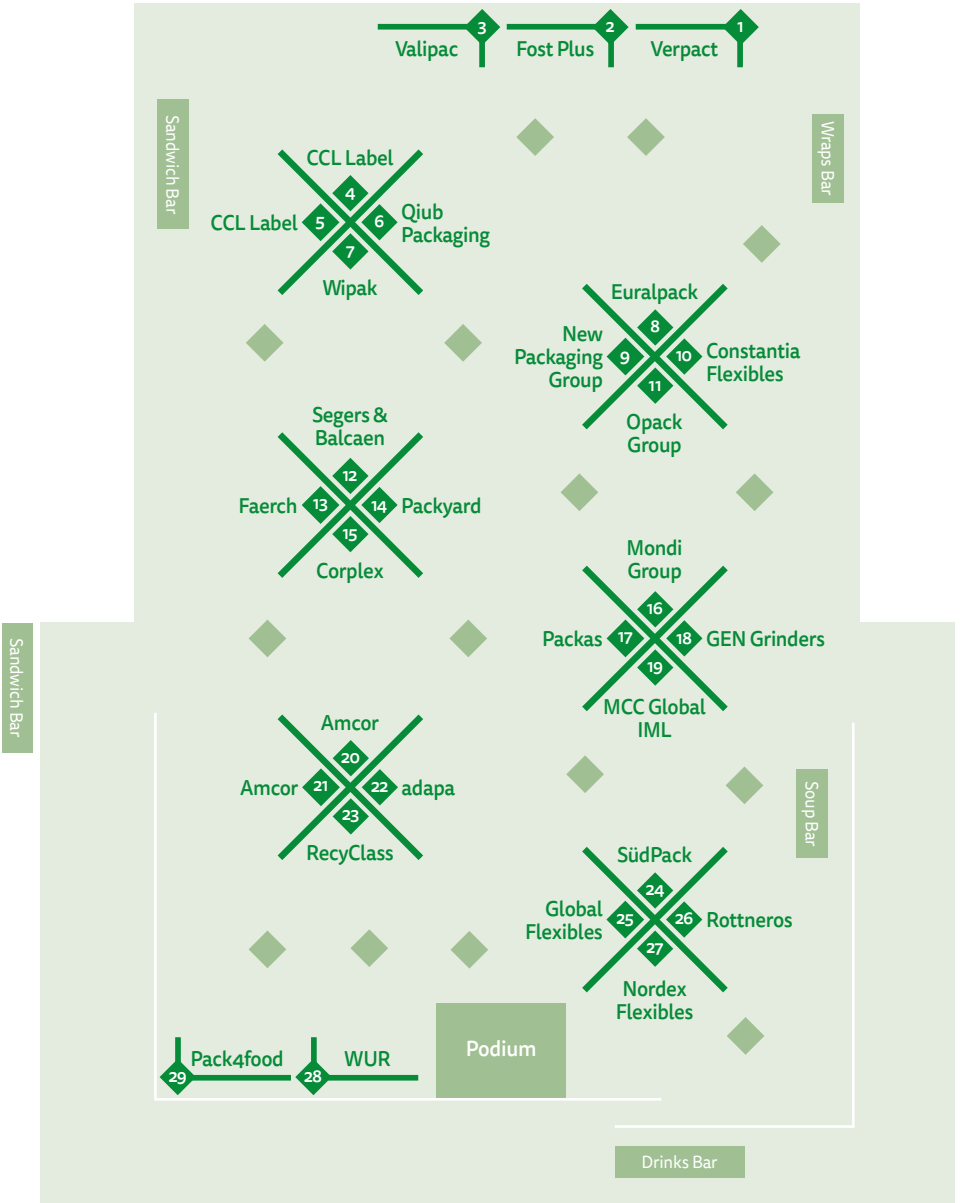


Problem:

Packaging contains a combination of materials and colours. White HDPE and black inner layer that leads to discolouring. Sometimes rubber is used, which leads to a non-recyclable material.

Solutions: 2 will be presented.

Participants



1. **Verpact ***
verpact.nl
info@verpact.nl
2. **Fost Plus ***
fostplus.be
fostplus@fostplus.be
3. **Valipac ***
valipac.be
info@valipac.be
- 4-5. **CCL Label**
ccllabel.com
jvdhoeven@cclind.com
6. **Qiub Packaging**
qiubpackaging.com
qiub@qiubpackaging.com
7. **Wipak**
wipak.com
info.benelux@wipak.com
8. **Euralpack**
euralpack.com
info@euralpack.com
9. **New Packaging Group**
newpackaginggroup.nl
info@newpackaginggroup.nl
10. **Constantia Flexibles**
cflex.com
office@cflex.com
11. **OPACKGROUP**
opackgroup.com
info@opackgroup.com
12. **Segers & Balcaen**
segers-balcaen.com
sales@segers-balcaen.com
13. **Faerch**
faerch.com
dk@faerch.com
14. **Packyard**
packyard.pro
info@packyard.pro
15. **Corplex**
corplex.com
info.kaysersberg@corplex.com
16. **Mondi Group**
mondigroup.com
mondigroup.com/contact
17. **Packas**
packas.be
info@packas.be
18. **GEN GRINDERS**
gengrinders.com
basar@gengrinders.com
19. **MCC Global IML**
iml.mcclabel.com
legal@mcclabel.com
- 20-21. **Amcor**
amcor.com
wijwervenaan@amcor.com
22. **adapa**
adapa-group.com
contact@adapa-group.com
23. **RecyClass ***
recyclclass.eu
info@recyclclass.eu
24. **SÜDPACK**
suedpack.com
info@suedpack.com
25. **Global Flexibles**
globalflexibles.com
info@globalflexibles.com
26. **Rottneros**
roottneros.com
info@roottneros.com
27. **Nordex Flexibles**
nordex-flexibles.nl
info@nordex-flexibles.nl
28. **Wageningen University & Research ***
wur.nl
raphael.fredon@wur.nl
29. **Pack4food ***
pack4food.be
info@pack4food.be

* Expert partner

Challenges and possible solutions

1.	Dairy	Ice cream cornets
2.	Dairy	Butter wrappers
3.	Dairy	Soft cheeses
4.	Dairy	Mozzarella with liquid
5.	Dairy	Grated cheese
6.	Dairy	Heavier products such as a block of cheese
7.	Meat	Shrink bags for pieces of meat
8.	Coffee	Ground and beans coffee
9.	Coffee	Ground coffee - Vacuum pack
10.	Bread	Multi-material fresh bake-off dough solution
11.	Sweets	Chocolate bars
12.	Spices	Spice jars
13.	Spices	Spice bags
14.	Food	Pizza packaging (warm and cold)
15.	Food	Aluminium seals
16.	Non-food	Paper/ plastic blister combinations for tools, home and personal care etc.
17.	Processed Meat	Best possible tray lay-out
18.	Fish	Best possible packaging for mussels
19.	Food	Best possible solution for metal clips
20.	Confectionary/ Drugstore	Best possible blisters for capsules
21.	Meat	Absorber in a PET tray
22.	Other	White HDPE with black layer

Program

09:30 - 10:30 | **Welcome & trade fair visit**

Koninklijke Drukkerij Em. De Jongzaal

10:30 | **Opening**

Koninklijke Drukkerij Em. De Jongzaal

10.45 - 11:25 | **Presentation**
'PPWR - What needs to be done now?'

Kleine Zaal (first floor)

11:30 - 12:10 | **Presentation**
'Design for Recycling (D4R)'

Kleine Zaal (first floor)

12:10 - 13:45 | **Follow-up discussions, lunch & trade fair visit**

Koninklijke Drukkerij Em. De Jongzaal

13:45 - 14:20 | **Presentation**
'Delegated Act on Design for Recycling'

Kleine Zaal (first floor)

14:25 - 15:05 | **Presentation**
'Effect of labels and adhesives on recyclability'

Kleine Zaal (first floor)

15:15 | **Closing**

Koninklijke Drukkerij Em. De Jongzaal

15:30 - 17:00 | **Trade fair visit & networking drinks**

Koninklijke Drukkerij Em. De Jongzaal