



WP5

**List of selected paper products categories to be considered
in WP5 activities of EcoPaperLoop project**



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LIST OF SELECTED PRODUCTS CATEGORIES

The EcoPaperLoop project plans four LCA studies in two categories – two studies for each category. The categories are:

- Packaging paper products
- Graphic paper products

Those categories obviously span a multitude of specific products, however, from the point of view of EcoPaperLoop project, the most important categories are those on which eco-design phase can have a significant impact on the end-of-life options – most importantly recyclability.

PACKAGING PAPER PRODUCTS:

Basic packaging terminology is listen in the CEN standard EN 14182 “Packaging – Terminology – Basic Terms and Definition”, however this standard does not list the possible general packaging products categories. The one of particular interest to the choice of product categories for WP5 of EcoPaperLoop is the ISO standard 21067 called “Packaging – Vocabulary”.

According to this standard a packaging is any product to be used for the containment, protection, handling, delivery, storage, transport and presentation of goofs, from raw materials to processed goods, from the producer to the user or consumer including processor, assembler or other intermediary.¹

The standard lists the following different packaging categories:

- Bags
- Sacks
- Bales
- Barrels
- Bottles
- Jars
- Boxes

¹ ISO 21067:2007 (E) – Packaging Vocabulary

- Cartons
- Cases
- Crates
- Wire bound boxes
- Bundles
- Bundles
- Cans
- Drums
- Non-removable-head drums/tight head drums
- Removable head drums/open head drums
- Pails
- Unit loads
- Jerri cans

Not all of those packaging categories can be produced from paper – the subject matter of the EcoPaperLoop project. With regards to this, a list of specific paper products to be considered in the EcoPaperLoop project was prepared by the Chair of Paper Technology and Mechanical Process Engineering of Technical University of Darmstadt. The choice of products categories for WP5 reflects the category of cellulose based products that normally or potentially are collected as paper for recycling and the possible impact that the eco-design phase can have on recyclability.

List of selected products:

- Corrugated Boxes
- Folding Boxboard (incl. solid board) for frozen food
- Folding Boxboard (incl. solid board) for all other applications
- Bags (open bags with handles)
- Sacks of all sizes from pure paper
- Sacks of all sizes with composite material added
- Composite paper packaging for liquids
- Moulded paper packaging

Therefore the choice of paper packaging Life Cycle Assessment will be based on this list and on the availability of such products from the external partners of the project who will supply the packaging and processing data for the study.

GRAPHIC PAPER PRODUCTS:

With respect to the packaging paper categories, printed graphic paper products can be classified in a less wide range of categories .

The main graphic and printed products can be listed in the following categories:

- Newsprint graphic products (Newspapers)
- Magazines (coated/uncoated)
- Telephone directories
- Brochures, inserts, flyers
- Catalogues
- Books
- Woodfree copy paper
- Stationery

Some of these categories are not supposed to be recycled ,like books while some products represent a minor amount of the collected paper for recycling as deinking grades. The majority of recovered paper for deinking in Europe is newspapers and magazines, therefore the choice of printed products categories considered for the LCA in WP5 is the following:

- Newsprint graphic products (Newspapers)
- Magazines (coated/uncoated)

The case studies for the Life Cycle Assessment will be based on this list and on the availability of such products from the external partners of the project who will supply the printed graphic products and processing data for the study.

