

# Collection and sorting systems in Sweden

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Marianne Svensén, Swedish Forest Industries Federation

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# Producer responsibility legislation

- Packaging ordinance\*) 1994, revised 1997 and 2004
- “Newspaper” ordinance 1994, revised 2004: printed matters on wood containing grades = *approx. News and Pams*
- Office papers, voluntary agreement 1996 between the government and Recovered Paper Merchants; renewed 2001

\*) Decision by Government

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# Lawmakers' intentions behind ordinances on producer responsibility

- Create sustainable systems
- Guarantee market for Swedish recovered paper
- Safeguard mill availability of recovered paper
- Create incentive for producers to collect and treat recovered paper in a rational and efficient way

# Definition of producer

Newspaper ordinance:

- Manufacturers and importers of newsprint
- Converters: printers, publishers
- Importers of printed matters

Packaging ordinance:

- Anyone professionally manufacturing, importing or selling packaging or packaged goods

# The producer must ensure that

- Suitable collection systems are provided for households and others (post-consumer only)
- Consumers are informed through municipalities
- Municipalities are consulted in matters relating to collection
- Authorities get reports on supply, collection and recycling
- Newspapers and Packaging are collected and recovered
  - first priority for packaging: re-use
  - first priority for News/Pams: recycling

# The producer must ensure that, cont'd

- Targets for collection and recycling are reached:
  - News/Pams: 75 % collection rate
  - Packaging: Metal: 70 % recycling
  - Paper: 65 % recycling
  - Plastic: 70 % recovery/ whereof 30 %  
                  recycling
  - Glass: 70 % recycling

# Households and other users must

- Separate Packaging and News/Pams from household refuse and put this material in collection systems provided by the producers.

*Municipalities must not collect producer responsibility material.*

# Producers have set up companies to organize collection, recycling and its financing

- **Pressretur** (News/Pams)
  - **Returkartong** (Corrugated Board, Consumer packaging fiber)
  - **Metallkretsen** ( Metal Packaging)
  - **Plastkretsen** (Plastics)
  - **Svensk Glasåtervinning** (Glass bottles, etc.)
- **REPA:** register of companies financing collection of packaging materials. **Note:** News/Pams and Glass not involved (no fees)

# Förpacknings- & Tidningsinsamlingen (FTI) (approx. Collection Company for Packaging/News&Pams)

*In charge of collection points: structure, permits, cleaning*

- Regional organization
- Contact with municipalities
- Supervision of local co-ordination
- Information, political contacts, lobbying



# The Collection system

- Collection points (recycling stations) in all communities (290)
- Approx. 6.000 unmanned recycling stations (FTI-operated)
- Approx. 2.000 unmanned containers glass/news&pams (WMC-operated)
- Manned recycling centrals in each community (operated by municipalities, for all types of waste)
- Collection points at/in apartment buildings and at/in private homes
- Collection in offices (office papers)

Returns/waste from retailers and printing houses do not fall under producer responsibility legislation (pre-consumer)

# Differentiated fees on packaging

- Corrugated board: 5 fee levels between 2 öre/kilo and 75 öre/kilo (approx. 2 €/tonne to 79 €/tonne)
- Cardboard, beverage carton: 60 öre/kilo (63 €/tonne)
- Cardboard, certain industrial packaging: 2 öre/kilo (2 €/tonne)
- Cardboard/packaging paper, other: 45 öre/kilo (47 €/tonne)

No fees on newspapers/magazines or office papers

# Pressretur

- Founded in 1994 to administer producer responsibility for News/Pams
- Shareholders are newsprint manufacturers in Sweden
- Collects annually approx. 500.000 tonnes of post consumer newspapers, magazines and other printed matters from households
- Collected material recycled 100 % at Swedish mills (Newsprint and Tissue).
- Operations entirely through contracts with WMCs/Municipalities and Service company FTI.
- Compensation to contractors result of tender procedure.
- No “packaging” fees - everything financed by industry (producers).

# Returkartong

- Originally founded in 1994, later re-organised, to administer producer responsibility for packaging of paper, board, corrugated
- Shareholders are packaging and packaging materials producers, packers/fillers and trade/importers
- Operations entirely through contracts with WMCs/Municipalities and Service company FTI.
- Compensation to contractors result of tender procedure.

***Common problem of the collection system:*** Expensive collection in remote areas

Rising costs for cleaning of collection points

Increasing over-head costs



FÖRPACKNINGS  
INSAMLINGEN ●●●●

 Skogs  
Industrierna

# Upplands-Väsby



FÖRPACKNINGS  
INSAMLINGEN ●●●●

Skogs  
Industrierna

# Linköping



# Tourist areas



# Emptying of container



**RETURKARTONG**

# Sorting and baling



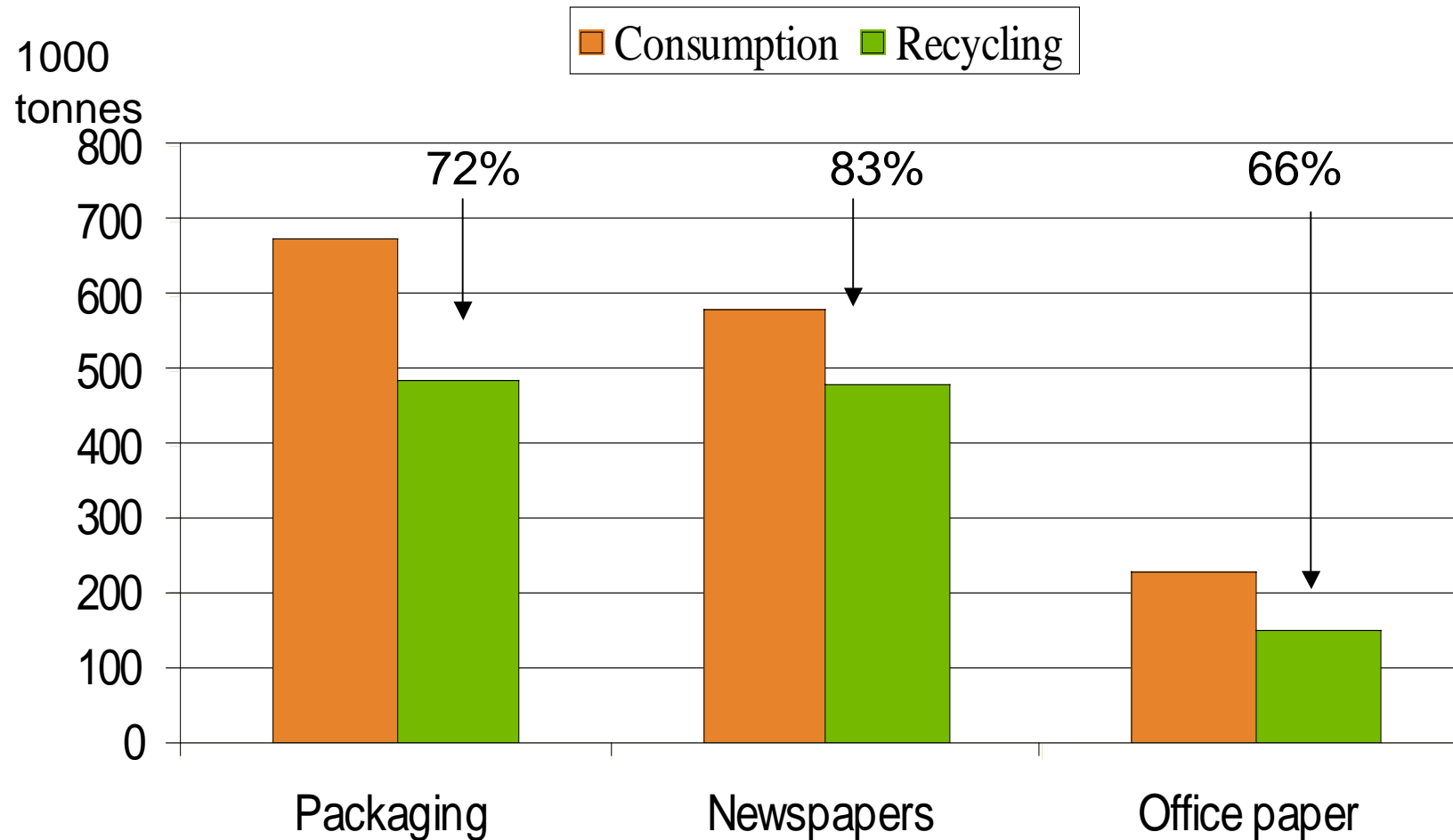
**RETURKARTONG**

# Paper packaging is dissolved at the paper mill



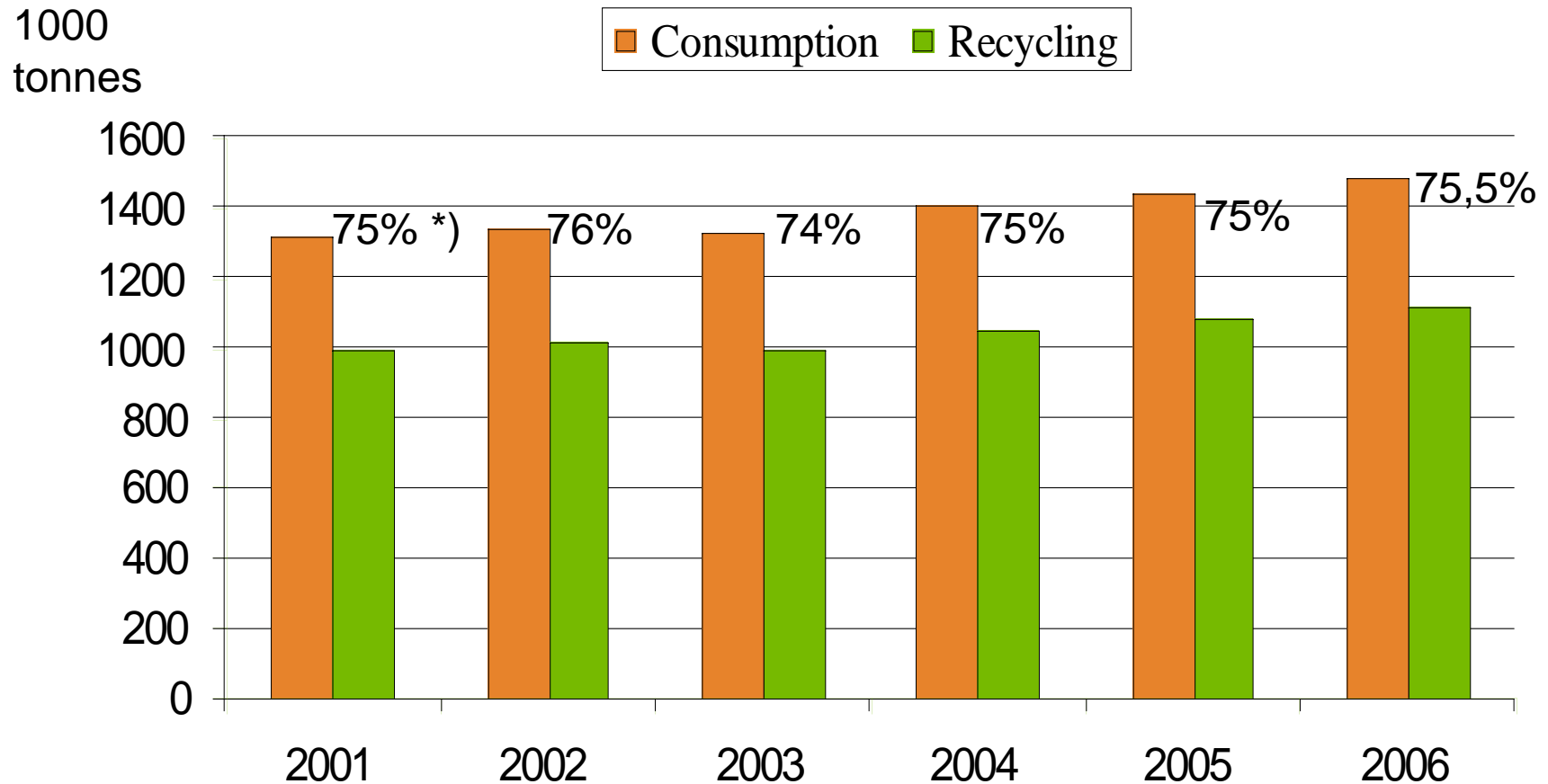
**RETURKARTONG**

# Consumption and recycling of paper with producer responsibility, 2005, and share of material recycling in percent of consumption



Source: Materials companies,  
Skogsindustrierna

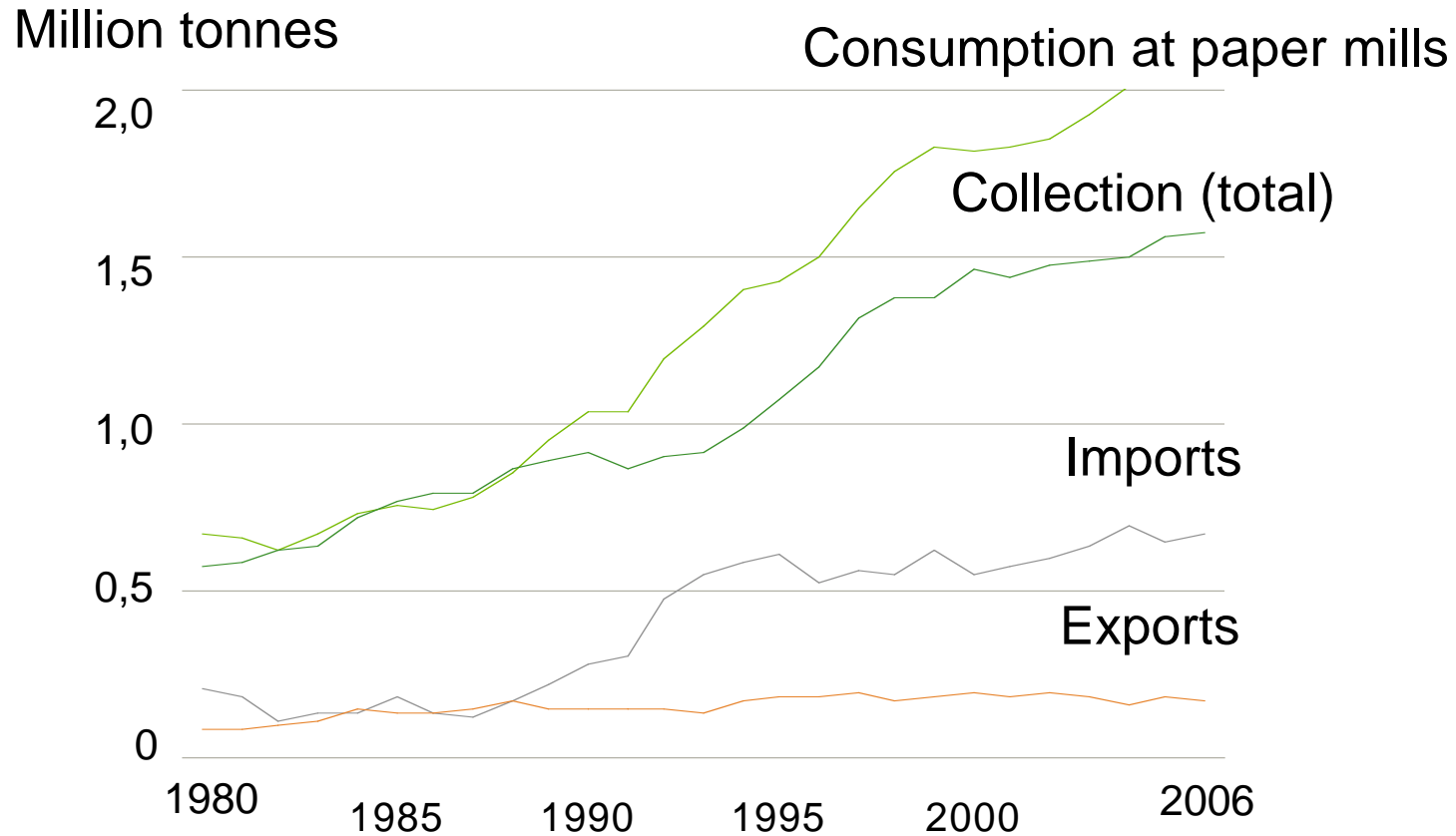
# Consumption and material recycling of paper with producer responsibility, 2001-2006



\*) recycling as % of consumption

Source: Materials companies,  
Skogsindustrierna

# Recovered paper in Sweden



Thank you!