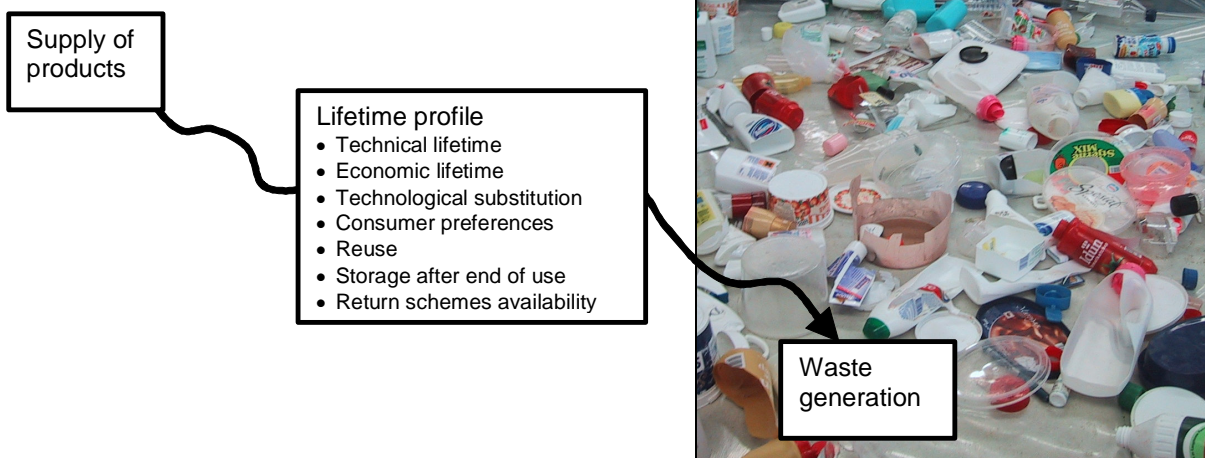


# Material flow analysis and waste statistics



## The importance of knowledge

All kind of waste management system is depending on knowledge about the waste generation. This knowledge can be based on the flow of materials in their life-time from production, to consumption and waste generation, recycling and final disposal. The situation today is often that there is a lack of reliable information and difficult to compare figures.

Monitoring material flow is crucial in order to improve the eco-efficiency in life cycle for materials and products in society and document the results from task to fulfil defined objectives and aims.

These kinds of analysis and statistics can be developed on different levels for different purpose:

- National material flow analysis based on in-out methods and life time assessments.
- National and regional waste statistics for different waste categories
- Market analysis for waste
- Sorting analysis to determined waste composition

## Mepex services

Mepex can offer all kind of services related to material flow analysis and waste statistics:

- Complete material flow analysis for materials and products
- Surveys and prognosis for future waste amounts
- Waste statistics and waste sorting analysis
- Market analysis for waste categories and potential for increased recycling
- Producer responsible registers and analysis of free riders.

## Mepex experience

Mepex has long experience with projects regarding material flow analysis and waste statistics. Selected references are shown on next page.

This knowledge is important to choose correct methods and understand the possibilities and weaknesses in input data and uncertainties in results.

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## Selected reference projects

Client	Project name and short description
<b>Plastretur AS – material company for plastic waste</b>	<p><i>Material flow analysis for plastic packaging and potential for increased recycling</i></p> <p>Complete analysis of plastic packaging put on the market and plastic packaging in different waste streams. Results divided in different kinds of packaging and markets. Development and use of new in- out method, combined with present situation for collection and recycling of plastic from different sectors.</p>
<b>Norwegian Industry</b>	<p><i>Material flow analysis for paper</i></p> <p>Complete analysis of paper magazines and packaging put on the Norwegian market and found in different waste streams to obtain balance in account. Comparing with international methods and figures kg/capita.</p>
<b>Private company</b>	<p><i>Prognosis for future material flows from ELV</i></p> <p>Developing a practical method to predict the amount of ELV in future and material composition. Based on variations between different producers and models. Lifetime assessments.</p>
<b>Waste Norway</b>	<p><i>Renewable part of waste to energy in Norway</i></p> <p>Calculation of the amount of waste generated in to energy recovery spited in fossil, biomass and inert material. Several sorting analysis of different waste categories.</p>
<b>Plastretur AS</b>	<p><i>Survey of waste generation of plastic ex. packaging</i></p> <p>Survey of production and lifetime assessments for plastic in ELV, EEE, building sector, etc. in order to predict future plastic waste generation.</p>
<b>Green dot Norway AS</b>	<p><i>Producer responsibility packaging – analysis of free riders</i></p> <p>Developing methods and calculations of the amount of packaging in market and free riders among trade, industry and other business sectors.</p>
<b>Plastretur AS</b>	<p><i>Statistics for plastic packaging to reuse, energy recovery and hazardous waste.</i></p> <p>Surveys and statistical reports to national authorities in accordance with regulations in period 1997-2006.</p>