

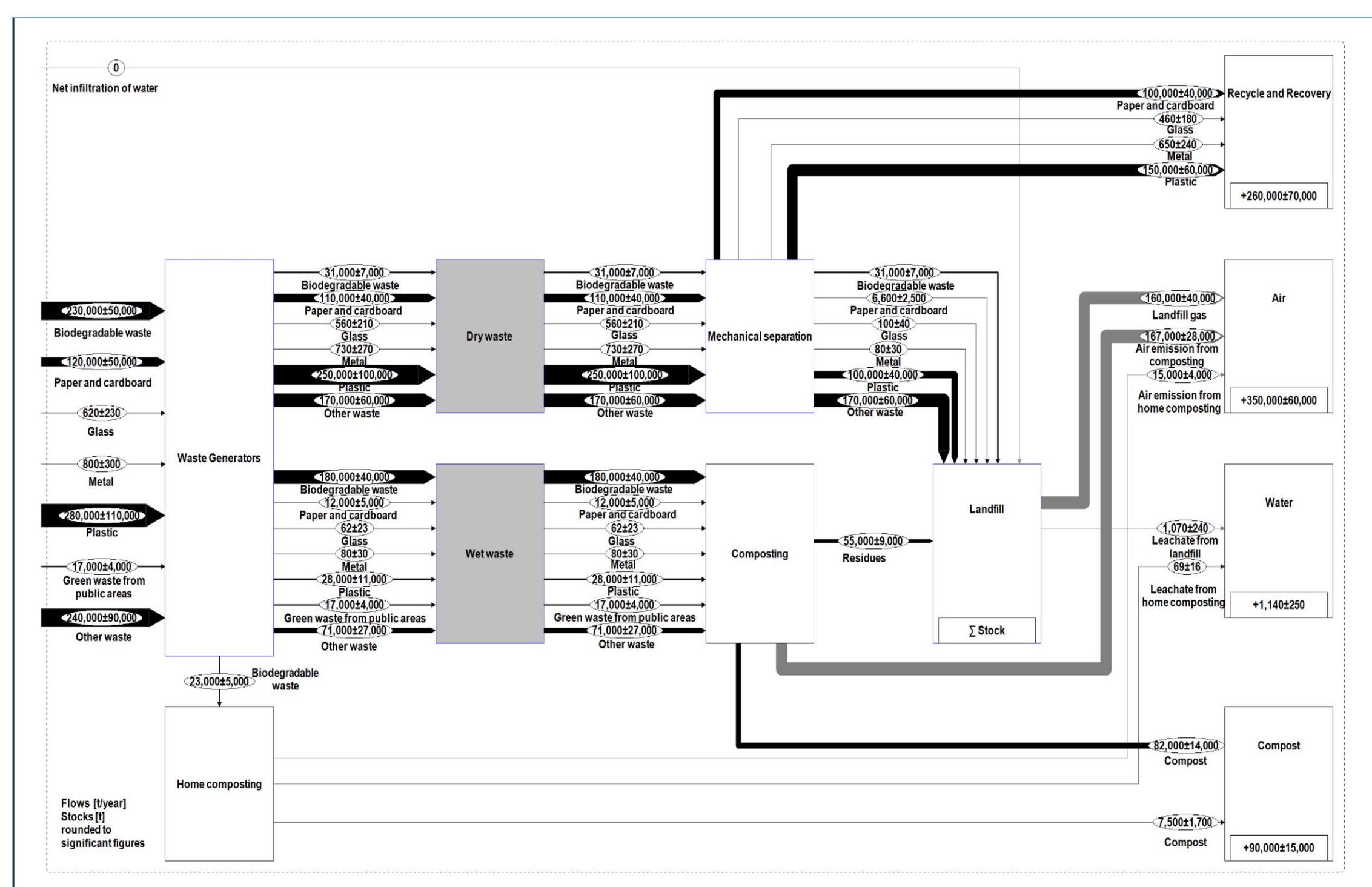
THE IMPORTANCE OF QUALITATIVE GOALS OF WASTE MANAGEMENT

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As a candidate country for European Union membership, Serbia is expected to implement solid waste management strategies that meet EU directives. The results of material flow analysis (MFA) and substance flow analysis (SFA) provide the necessary information when it comes to setting priorities. The role of waste management systems is becoming more significant due to increased production and consumption in all spheres. Systems must be developed and implemented in order to direct hazardous waste substances to appropriate intermediate and final sinks.



C flow (Composting + 10% of Home Composting)

In order to implement **sustainable waste management** and meet the objectives of the landfill directive, it is necessary to introduce the diversion of biodegradable waste from landfills.

The **software STAN** has been applied for modeled scenario.

MFA and SFA are widely used engineering tools for modeling waste management systems.

All results in the MFA can be controlled, because their basic principle is based on the material balance comparing all inputs, stocks and outputs of a process.

MFA indicates that

- home composting has the potential to minimize biodegradable waste entering the collection stream
- composting greatly reduces the amount of waste that goes to landfills and contributes to compost production as well as high recycling goals implemented by circular economy requirements.

Based on the results obtained, carbon can represent either

- the indicator of the potential of resources or
- negative impact on environment

The concentration of many substances in products is quite small but those small quantities of hazardous substances may have a significant effect on the circular use of large amounts of wastes. Therefore, technologies should be developed in such a way as to be able to remove them from the cycle.

For a goal-oriented practice, quality and quantity are of equal importance.

