



Livestock sector has several challenges because of the management of the resources and wastes produced. Manure is one of the biggest problems of the sector due to the associated risk of ground water pollution, among others. Manure has potential as raw material due to its content in organic matter and nitrogenous compound.

## Example of a business model in the bioeconomy: BIOGAL

**BIOGAL** is a Polish company that valorises the slurries and vegetable crop wastes from its own farm and other farms from the surroundings. At the same time, they valorise other organic biomass streams, as the food out of date from stores and supermarkets.



Established in 2010

35 employees

The owner of the company owns a farm with an area of 205 ha and is the majority shareholder of the farm with an area of 400 ha.

In addition, BIOGAL is supplied with wastes from other farms than the owner's one.



The biogas produced supplies heat and electricity for near house holds and public building. The energy produced also feed the own installation of BIOGAL



All biomass streams are valorised through a fermentation process, **BIOGAL** produces biogas used to generate energy and heat



The post-fermentation mass results in a organic fertilizer. It could be used directly as raw material or dried and granulated to create a marketable product.

The resulting fertilizer is recommended for vegetable crops, ornamental plants, fruit trees and shrubs and field crops.

