Market Analysis for products from organic household waste: A case study in Minas Gerais (Brazil)

REASON/INTRODUCTION

In the state of Minas Gerais (Brazil) a lot of organic household waste is produce (GFT). Currently only a small percentage of the collected residual gets separated and reused, the majority is sent to landfills.

Composting and anaerobic biodigestion have been shown to be efficient ways to recycle solid urban organic waste. Composting is an aerobic process in which organic municipal solid waste is converted into humified fertilizer. With anaerobic biodigestion organic waste is transformed into biofertilizer and biogas.



Figure 1: Landfill in Andradas, Minas Gerais

GOAL

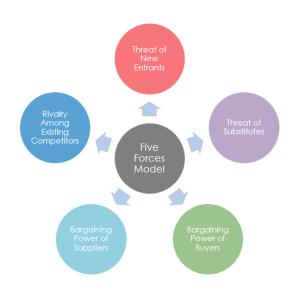
The goal of the Project is to analyse if there is a market in Minas Gerais for products made of organic household waste, such as compost and biogas.

METHODS

Three differents models were used that complement each other: 5 forcers of Porter; SWOT Analysis and Business Model Canvas.

RESULTS

PORTER'S FIVE FORCES MODEL



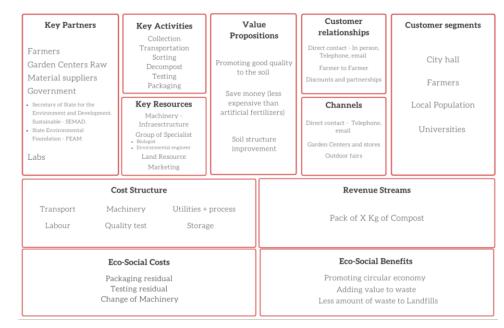
SWOT ANALYSIS - COMPOST



The Five Forcers of Porter and the SWOT Analysis showed that Compost would currently be the best option for the state.

Minas Gerais is a state where agriculture is very expressive, there is a vast number of farmers, rural producers and companies linked to agribusiness that could benefit from this product. In addition, the compost can be sold to Garden Centers and rural product stores, which can be used for residential gardens, such as in schools, business and municipal gardens. Despite that, the compost market can be considered of small scale, there is not a large number of companies working in this segment. Synthetic fertilizers are more used and better known among consumers.

THE SUSTAINABLE BUSINESS MODEL CANVAS



CONCLUSION

Investments on organic compost would lead to notably benefits, such as being less aggressive for plantations, productions local territory, improvement of the soil quality. In addition of being a sustainable option for the re-use of the waste, promoting circular economy.

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