

Millennium Youth Camp 2014

Food Science and Technology

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A SUSTAINABLE PACKAGE FOR BEEF

OUR PROJECT

Packaging plays a key role in today's society, maintaining the safety, integrity and quality of our food. Beef is a major source of protein in several countries, so prolonging its shelf life and using ecological materials is important to prevent waste. It is also crucial to protect the world's diverse ecosystems.

SAFETY

Food packaging is required to provide information about the ingredients and nutritional value. Alongside this, it should preserve food in a cost-effective way, and protect it from outside damages. Physical protection shields food from mechanical damage, shock, vibration and compression encountered during distribution. Biological protection provides a barrier against microorganisms, insects and other animals, thus preventing spoilage and diseases. Chemical protection, on the other hand, minimizes compositional changes triggered by environmental influences such as exposure to light, moisture, or gas.

Fresh food is extremely vulnerable to contamination. Meat requires many precautions that should be taken into account when developing an efficient package.

Beef packaging is only truly effective, if it is made of the right materials.

A BETTER WORLD

The results of the project prove that it is possible to strive towards a more sustainable meat packaging industry. By using biodegradable and renewable materials, we can make a significant positive impact on the world's environment. The process of coming up with this idea took extensive research, but in the end it was really worth it, once we saw the endless possibilities for improvement.

