Genetically modified organisms in food



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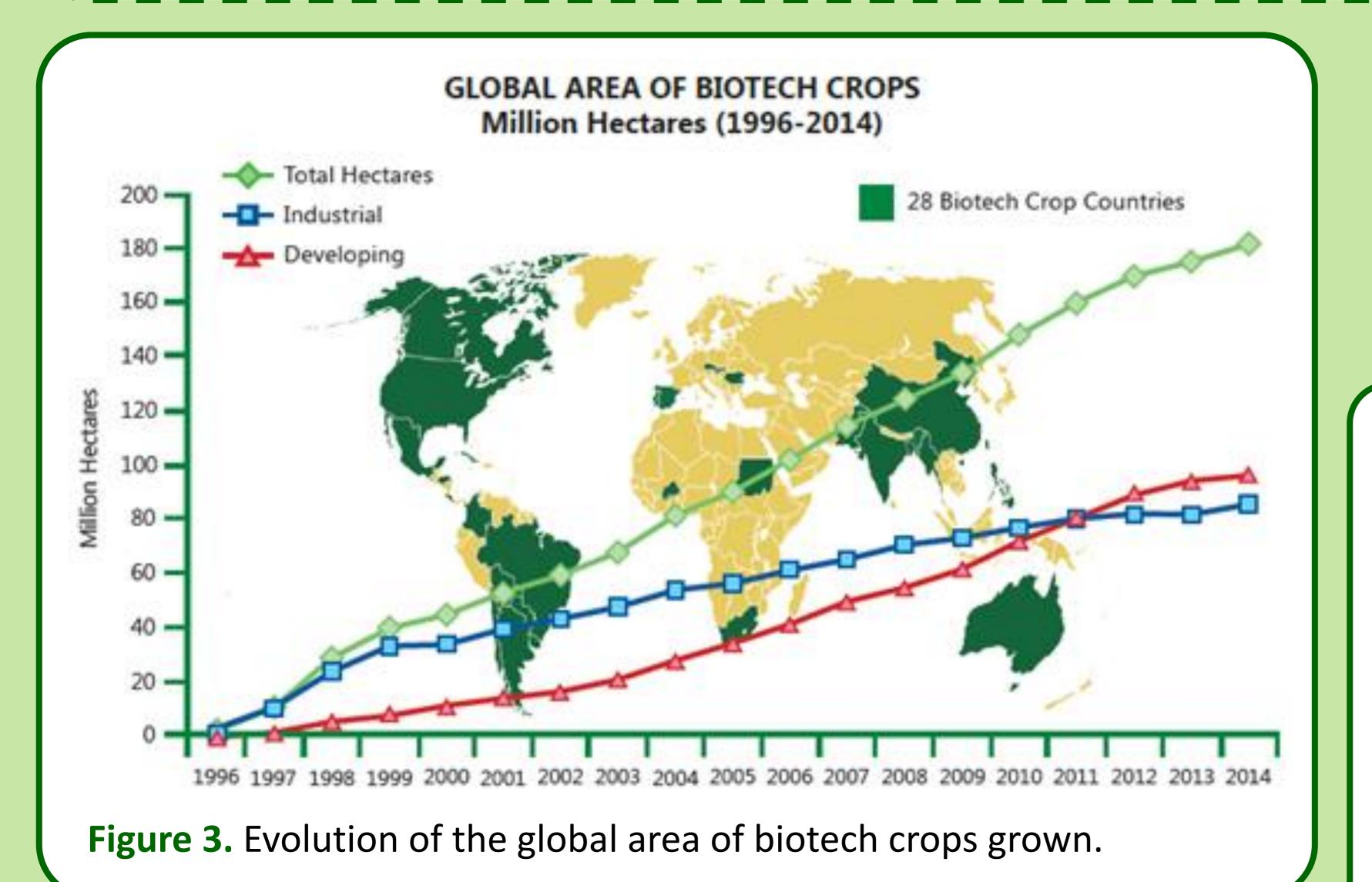
Objectives

- Describe what GMOs are and the benefits and risks that can lead their presence in food.
- Research of legislation and control about GMOs
- Observe the current situation in the crops of GMOs
- Find out what consumers think, why and how it has been influenced this opinion.
- Extract an opinion on GMOs based on data from reliable sources.

Introduction

What are GMOs and how they are obtained?

- an organism, with the exception of human beings, in which the genetic material has been altered in a way that does not occur naturally
- genetic modification occurs through the use of this techniques:
 - ✓ recombinant nucleic acid techniques
 - ✓ techniques involving the direct introduction into an organism of heritable material
 - ✓ cell fusion (including protoplast fusion) or hybridization techniques



Conclusions

Methodology

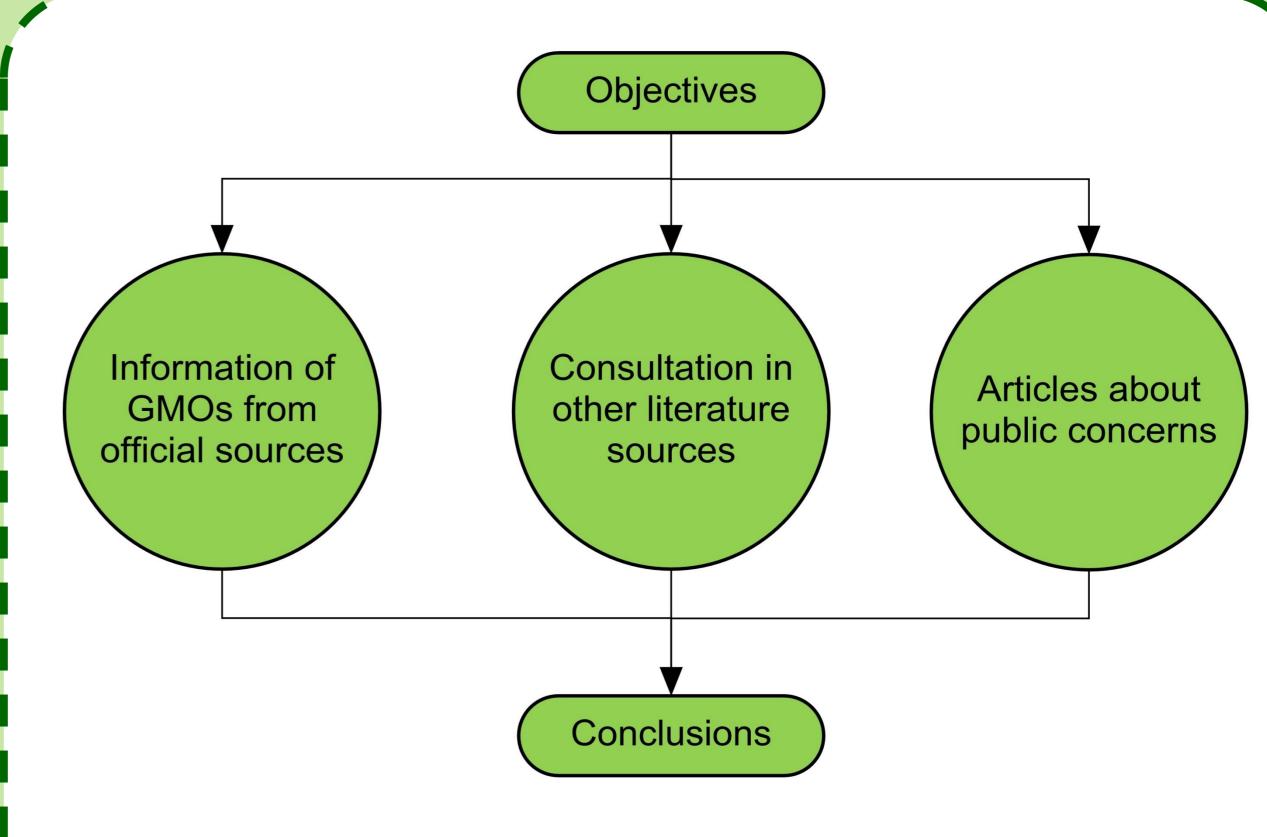
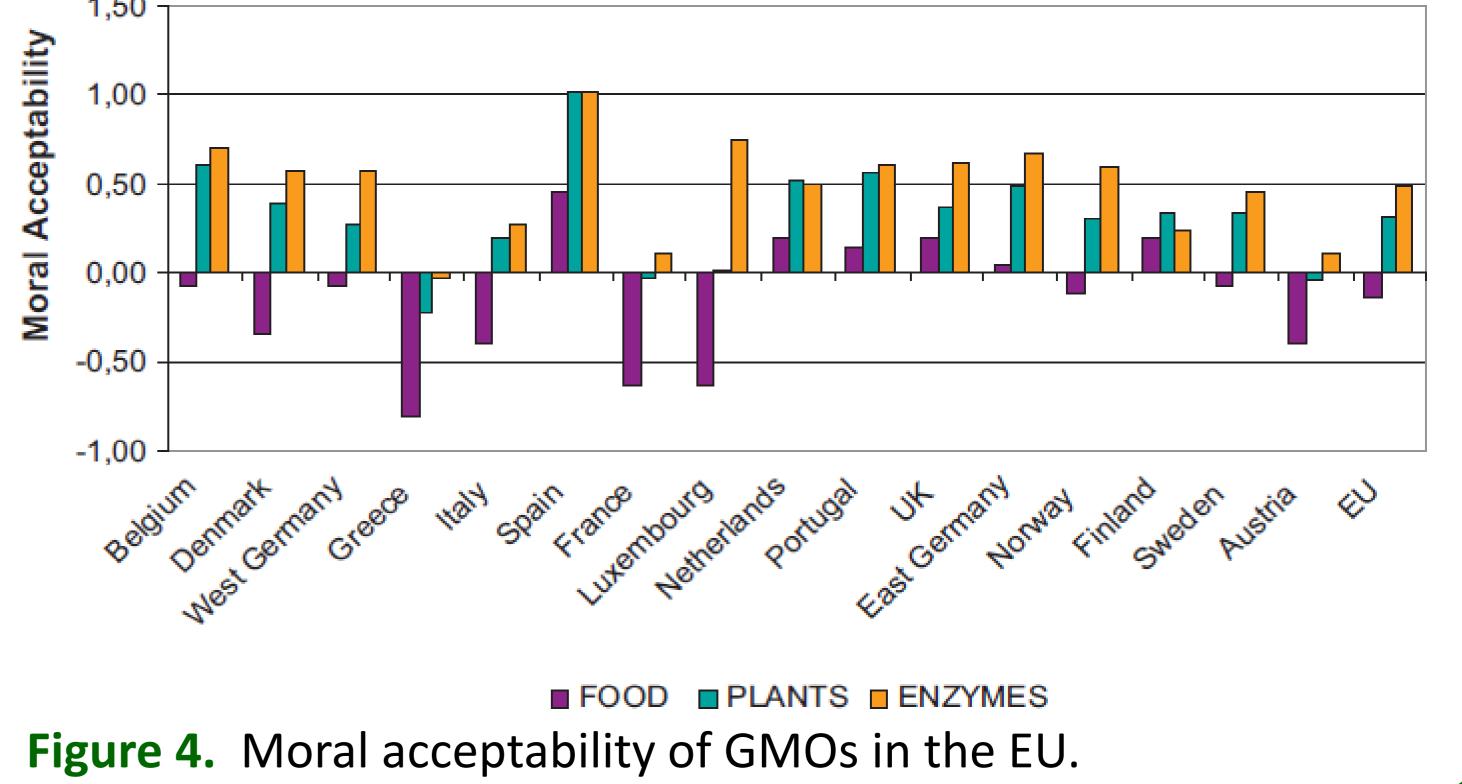


Figure 1. Outline of the methodology used.



Figure 2. Authorities involved in the authorization process of GMOs



- Genetic selection has long sought to achieve the variety more resistant and productive, and GMOs are exactly that.
- There are not scientifically reliable tests about the benefits and the risks.
- The authorization process of GMOs in Europe is very demanding, where the products are exhaustively assessed.
- GMOs cultivation has increased over time, but in the recent years has stabilized.
- The introduction of GM foods in the food markets should be accompanied by appropriate policies to ensure consumer safety and better communicative tools in order to allow a reduction in the risk perceived by consumers.
- Must find ways to communicate the benefits and risks of GMOs to consumers without obstructions in order to let them formulate there own opinions based on reliable data.