



ARE INSECTS THE FOOD OF THE FUTURE?

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INTRODUCTION

Climate change, population growth and hunger are some of the challenges that humanity must face nowadays

"The Sustainable Development Goals (SDG) are the blueprints to achieve a better and more sustainable future for all". United Nations





PROS

- High nutritional quality
- Low environmental impact
- Low feed conversion ratio
- Simple rearing conditions
- Ability to feed on waste

CONS

- Highly extended neophobia
- Environmental impact of feed
- Lack of economic resources
- It's required more **research**
- Strict laws (Novel food)

SURVEY

654 people surveyed 46% wouldn't eat whole insects 57% would eat insect-based products



OMATES SECO ESPECIAS GRIEGAS AJO & FINAS HIERBA

INTERVIEW

Ignacio Barandalla, Ecoinsect Sustainable Farming, April 2022

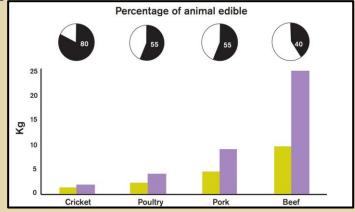
Novel food: must be approved by EFSA and the EC (RE 2283/2015)

Feed: RE 769/2009

Dead insects: RE 1069/2002 Insect feeding: APM/189/2018

OBJECTIVES

- Advantages and disadvantages of edible insects as a food source
- Evaluation of edible insects consumption to mitigate hunger (SDG2 - Zero hunger)
- Current situation and potential of edible insects industry
- Spain population's opinion on edible insects



Feed conversion ratio (kg feed/kg mass gain) and percentage of animal edible of cricket, poultry, pork and beef (1)

CONCLUSIONS

EU

- challenges: negative western society Biggest perception, lack of involvement of large companies, strict legislation and need of further research
- Mass production of insects can help to achieve SDG 2, but in developing countries it can be difficult due to lack of basic resources
- Edible insects can be a suitable meal for both humans and animals
- √ Western society may have a better acceptance towards insects if they are not visible in the food

REFERENCES: (1) Van Huis et al., 2013. Edible insects: future prospects for food and feed security. FAO