

Introduction

- 1. The meat sector is one of the most contributing sectors to the **GREENHOUSE GAS (GHG) EMISSIONS, which is bringing** controversial discussions at the environmental and societal levels [1].
- 2. FOOD PRODUCTION ACCOUNTS for 26% of global GHG, of which 53% comes from animal production, 29% comes from crops and 18% from supply chain (transportation, packaging and sales) [2].
- 3. At the EU level, TWO REGULATIONS were approved that authorized the use of insect proteins in feed in aquaculture (N°2017/893), poultry and pig farming (N°2021/1372). 4. Nevertheless, the incorporation of unfamiliar feeding options could impede consumers' purchasing decisions and lead to
- market rejection.

Objectives

- To analyse Spanish consumers' willingness to pay (WTP) towards **SUSTAINABLE ANIMAL PRODUCTS** (chicken, pork and eggs) in animal feeding.
- To assess the IDEAL INFORMATION CONTEXT AND **COMMUNICATION** path to be provided to consumers in order to increase their acceptance and WTP.

Is there a room for using insect meal as a sustainable feeding alternative in chickens and pigs? Consumers' perceptions and willingness to pay Nada KAJAD, Zein KALLAS and Adzran MUSTAPA

- at least once in the last three months.
- **BOUNDED DICHOTOMOUS CHOICE (YES/NO) was used.**
- willing to pay as premium.
- the hypothetical bias [3].
- production on the GHG emissions.

Communication channel 1:	Com ch
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image [2]	[
+	
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Methodology

Data was collected in December 2022 from 1,017 consumers in Spain. 2. Participants were partially or totally responsible for the purchase decision at household level and have purchased chicken, eggs and pork

3. The Contingent Valuation Method (CVM), using the SINGLE-

4. **TWO-STEP CVM**, the first step was asking respondents to select the interval of prices they are willing to add as a premium. Then the second step was to ask them to value exactly how much they are

5. The "cheap talk" and the "Solemn oath" scripts were used to reduce

6. The information contexts were created based on a VIDEO AND A WRITTEN INFORMATION regarding the impact of animal

> **imunication** hannel 2:

video



Communication channel 3:

The simplest information:

Producing chicken/ pork/ fed by eggs **SUSTAINABLE** feed INSECT w1th mea proteins implies higher costs for farmers.

Chicken Pork Eggs

1. INFORMATION

preferences.

- **3.** Consumers'

information, and open market as purchase outlet were

significant drivers of the perception toward insect as a

feed.

References





Results and Conclusion

Table 1. Percentage of extra premium WTP of consumers under the different information contexts.

Percentage WTP (%) by option							
Text description + Video		Only video		No information			
WTP	Std. dev	WTP	Std. dev	WTP	Std. dev		
24.01	3.24	20.80	2.17	29.12	3.06		
23.10	2.87	19.56	2.31	24.21	3.44		
31.39	1.66	28.05	3.91	35.70	3.64		

CONTEXT influences

consumers'

2. The **SIMPLEST** information implies the highest WTP.

AWARENESS, credible sources of

4. High **HETEROGENEITY** levels were found according to the main characteristics of consumers

1.Dagevos, H., & Voordouw, J. (2013). Sustainability and meat consumption: Is reduction realistic? Sustainability: Science, Practice, and Policy, 9(2), 60–69. https://doi.org/10.1080/15487733.2013.11908115

2. European Commission. (2021). EU agricultural outlook for markets, income and environment, 2021-2031. European Commission, DG Agriculture and Rural Development, Brussels. <u>https://doi.org/10.2762/753688</u>

3.De-Magistris, T., & Pascucci, S. (2014). The effect of the solemn oath script in hypothetical choice experiment survey: A pilot study. Economics Letters, 123(2), 252–255. <u>https://doi.org/10.1016/j.econlet.2014.02.016</u>



