European consumer acceptance of insects as food and feed: key findings and considerations

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Insects as feed

Fish

- 77% of respondents indifferent (Ankamah-Yeboah et al. 2018)
- 76% of respondents willing to purchase/eat (Mancuso et al. 2016)

Fish and livestock

- 52% of respondents (strongly) agree that they are willing further 25.5% indifferent (Laureati et al. 2016)
- 66% respondents comfortable eating insect-fed meat/fish (PROteINSECT, 2015)



"the way people respond to prompting via a questionnaire is no reliable guide to what they do in a grocery store"

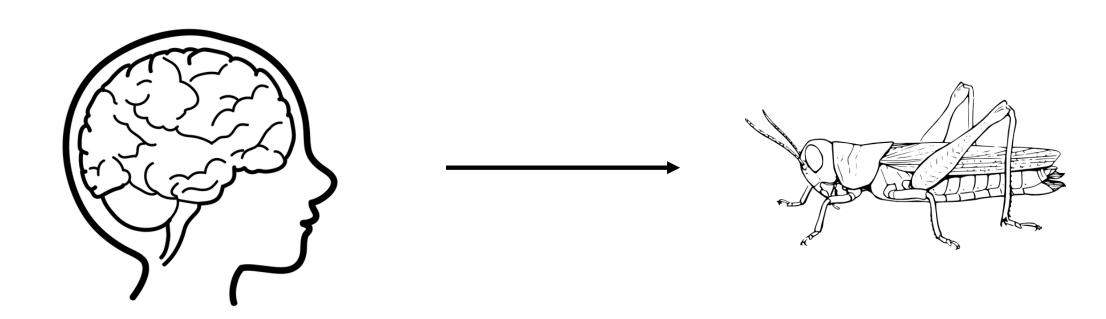
Sleenhoff et al. 2008, p. 6-15























THE inVALUABLE CHALLENGE

How can we generate new and sustainable sources of high quality food with protein from insects to meet the future protein demand?





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The 'hidden is best' hypothesis

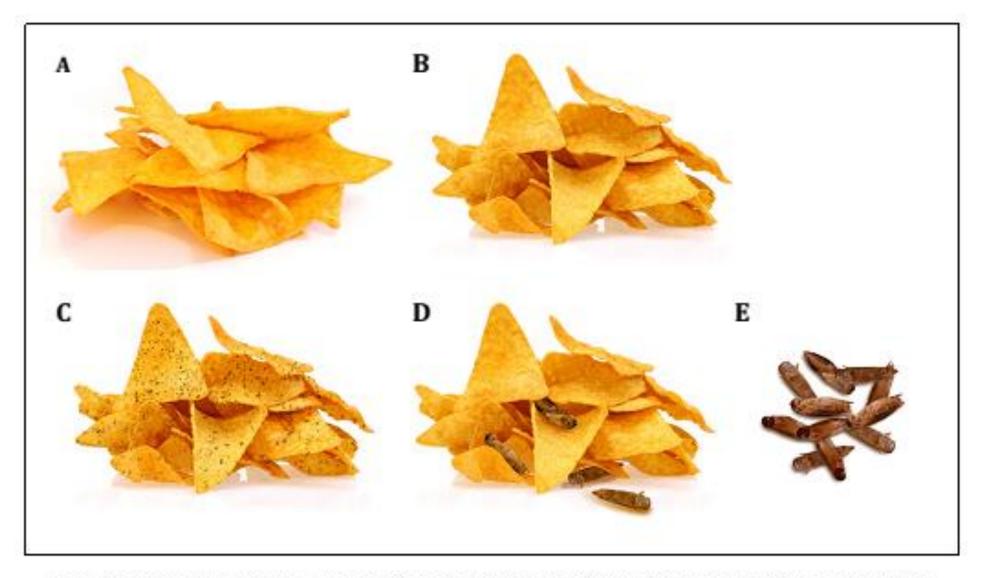


Fig. 1. Stimuli material used in the study: (A) "reference," (B) "flour," (C) "bits," (D) "mix," and (E) "crickets" products.



CHÍRPS

BUGS YOU



OF PROTEIN

PER BAG (*4g per 1 oz serving)



SEA SALT



CRICKET CHIPS



NET WT 5 OZ (140g)















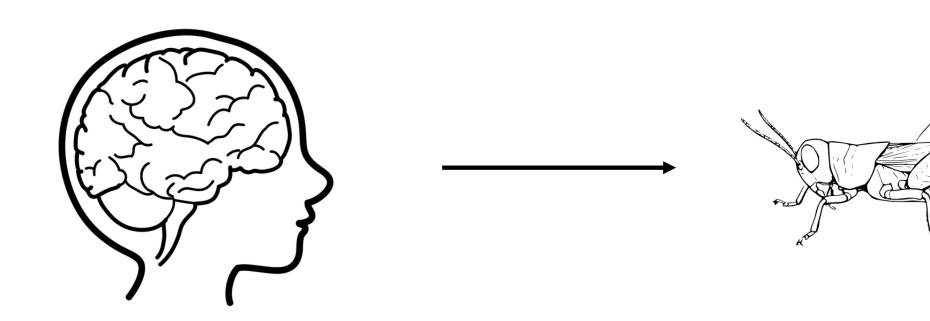
OZ (140g)

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The European and American rejection of insects as food has little to do with insects as disease carriers or their association with dirt and filth. The reason we don't eat them is not that they are dirty and loathsome; rather, they are dirty and loathsome because we don't eat them.





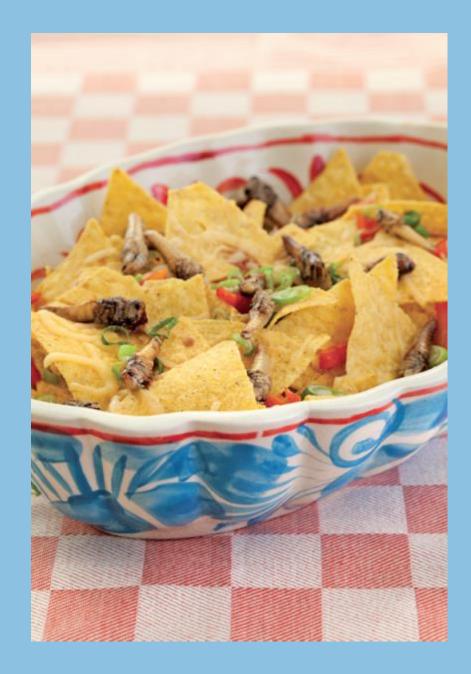




HET INSECTENKOOKBOEK



ARNOLD VAN HUIS - HENK VAN GURP - MARCEL DICKE







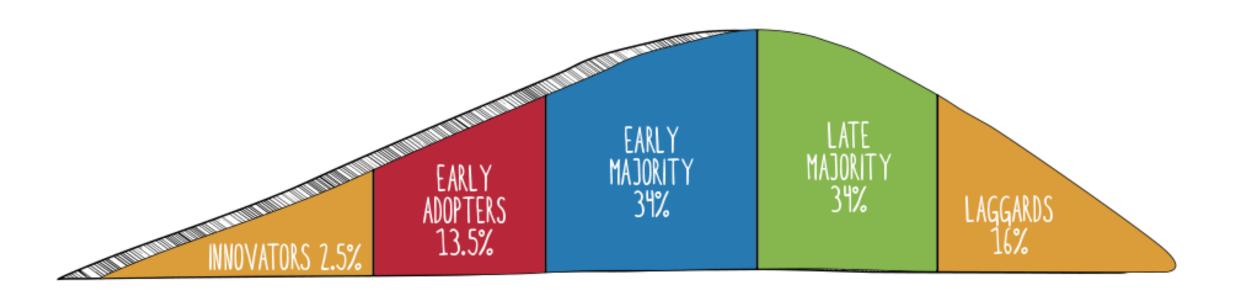








DIFFUSION OF INNOVATION MODEL



Potential short-term consumer profile: 'the conscious consumer'

- Medium to high educational level
- Medium to high **socioeconomic** status
- Lives in more **urbanized** residential areas
- Food neophilic
- Convenience orientation [?]



Key values

- Sustainability (climate, environment, social, ethics), storytelling, healthy local/regional produce, values prioritised over money
- 'Ism' driven nutritionism, environmentalism.
 Good karma feeling good about food, kind to themselves and the environment
- Intergenerational passing along healthy and sustainable foods to their children





Feed

- More research needed (ideally in context)
- Surveys are not a reliable guide
- Price likely to be crucial

Food

- Do <u>not</u> focus on negatives (e.g. cultural barrier)
- <u>Do</u> focus on positives (e.g. tasty, novel, distinctive foods)
- Cuisine may be key
- Early adopters should be the target

Thanks!

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