



CONSUMER AWARENESS ABOUT AQUACULTURE IN EUROPE//

A COMMUNICATION CAMPAIGN IN THE FUTUREEUAQUA PROJECT.

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Duration: Oct 2018 - Sep 2022 (+C19 extension)

Coordinator: Nofima, Åsa Maria O. Espmark

"Investigate future fish farming through the value chain, in various production systems and with various species, from the genetics to processing and packaging, including societal and economic aspects."

Partners:

SalmoBreed AS, Akvaforsk Genetics Center AS, Danish Salmon, SalMar Farming, Sveriges
Lantbruksuniversitet, Danmarks Tekniske Universitet, Aller Aqua A/S, Stichting Wageningen Research,
COISPA Tecnologia & Ricerca Scarl, Alma Mater Studiorum – Universita Di Bologna, Universita
Politecnica Delle Marche, Instituto Zooprofilattico Sperimentale Delle Venezie, Economia del mare di
Casali Roberto, Alintel SrIPP Srl, AlmaPlasma, Tagliapietra e Figli Srl, University of Thessaly, Hellenic
Centre for Marine Research, Galaxidi Marine Farm AE, Irida AE-Products for Animal ProductionServices, Nireus Aquaculture SA, Kefalonia Fisheries Industrial and Commercial Company AE, Cibo e
Salute Srl, Marin Biogas, Federation of European Aquaculture Producers, University of Haifa, Cambden
BRI Magyarország Nonprofit Korlatolt Felelossegu Tarsasag, Piraeus University of Applied Science, Vork
Dambrug, Osland Stamfisk AS, International federation of organic agriculture movements European
Union Regional Group

WORK PLANS

FutureEUAqua will promote innovations in the whole value chain, including:



SUSTAINABLE BREEDING

Assessing, validating and demonstrating the level of the ability of the current breeding programs, breeding goals and methodologies.



INGREDIENTS & FEED

Ensuring sustainable and resilient production by focusing on high fish performance, health and product quality.



PRODUCTION SYSTEMS

Documenting tailor-made fish perform in future cost-effective production systems that function optimally.



QUALITY & SAFETY

Developing innovative high quality minimally processed fish products and related packaging conditions, in order to valorise aquaculture raw materials.



MONITORING TECHNOLOGIES

Monitoring the impact of housing environments and innovative diets on the fish health and welfare.



CONSUMER AWARENESS

Improving consumer awareness, perception and acceptance of European aquaculture products and methods.





THE EXPERIMENT



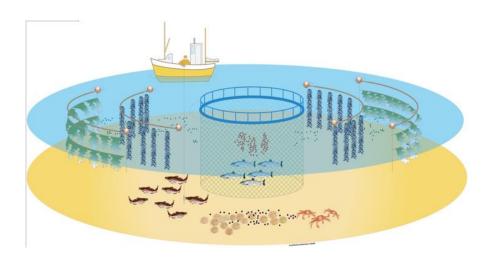


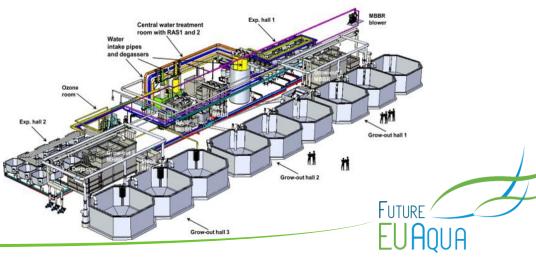
Experimental conditions



Condition 1 (factual + photo)

Sustainable aquaculture in Europe is growing in full control of new feed sources and water quality to deliver high quality fish





Experimental conditions



Condition 2 (emotional + photo)

Sustainable aquaculture in Europe is making sure that we and our children can enjoy tasty and healthy fish in the future



Experimental conditions



Condition 3 (factual)

Sustainable aquaculture in Europe is growing in full control of new feed sources and water quality to deliver high quality fish

Condition 4 (emotional)

Sustainable aquaculture in Europe is making sure that we and our children can enjoy tasty and healthy fish in the future

Condition 5 (Control)

Sustainable aquaculture in Europe is growing with focus on new feed sources, water quality, fish quality and welfare



Experimental measurements



Please imagine that the information above has been posted on twitter and Instagram. Please pay attention to the image and text and reply to the questions below:

- This post was easy to understand
- I like this post
- I would forward this post on my twitter and Instagram

...and 3 open ended questions

- I like this post because...
- I dislike this post because...
- This post is not interesting because...

Descriptives

- Consumption frequency (wild, farmed)
- Education
- Occupation
- Household income
- Number of children in household
- City size
- Marital status
- Use of social media



Field work



Sample population

- Recruited by YouGov
- Seafood consumers
- At least partly responsible for the shopping and preparation of food in their household
- 500 per country, 2500 total

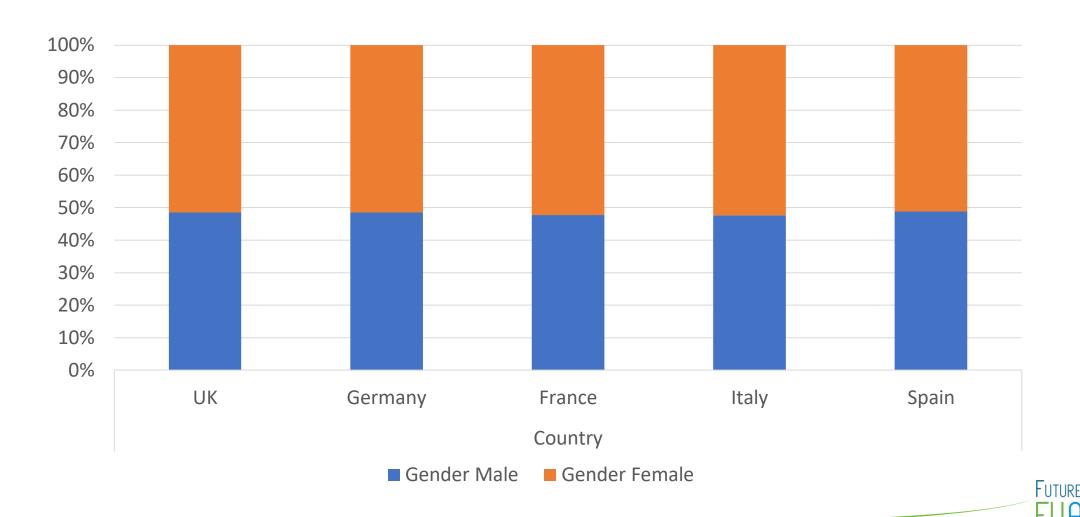
Countries

- UK
- France
- Germany
- Spain
- Italy



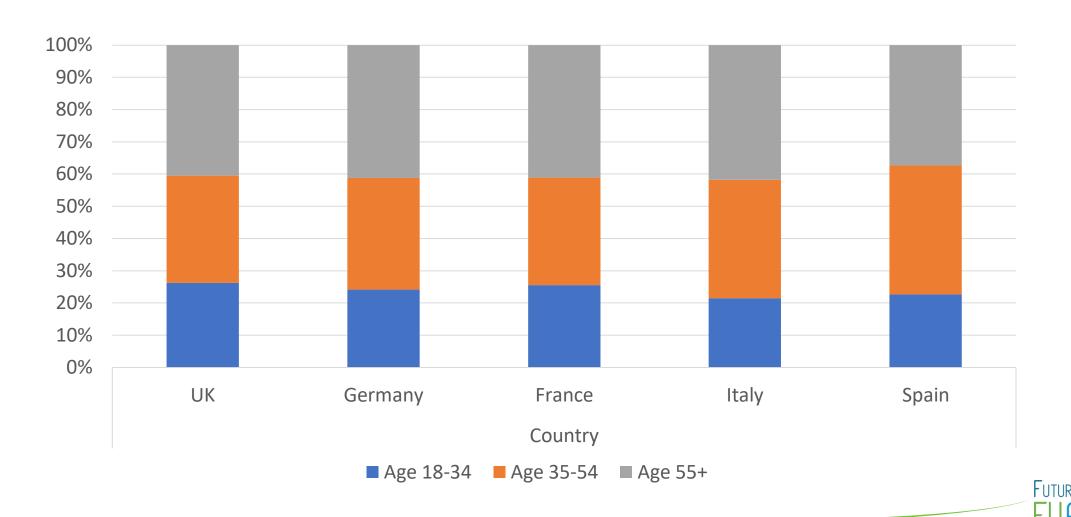
Sample description





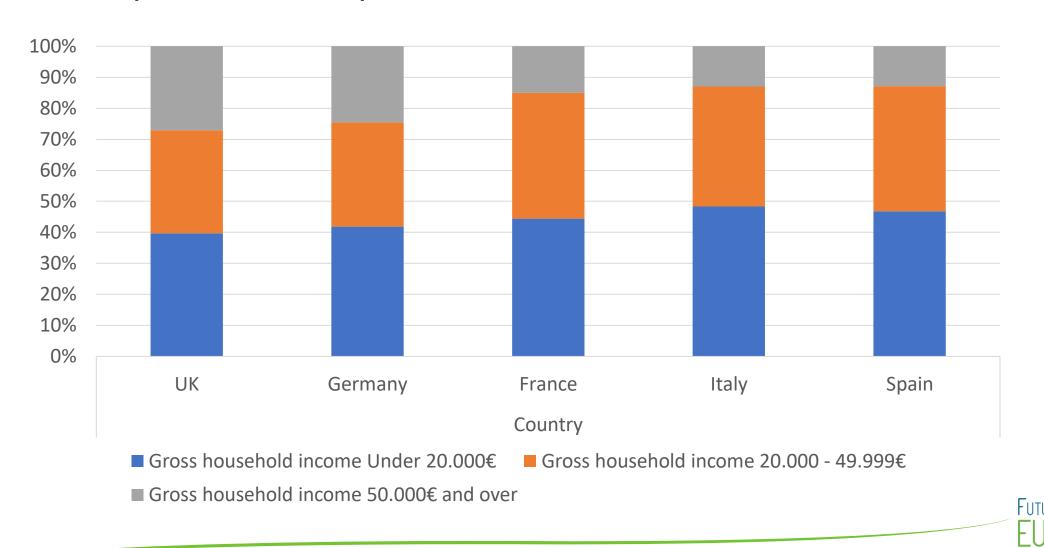
Sample description: Age





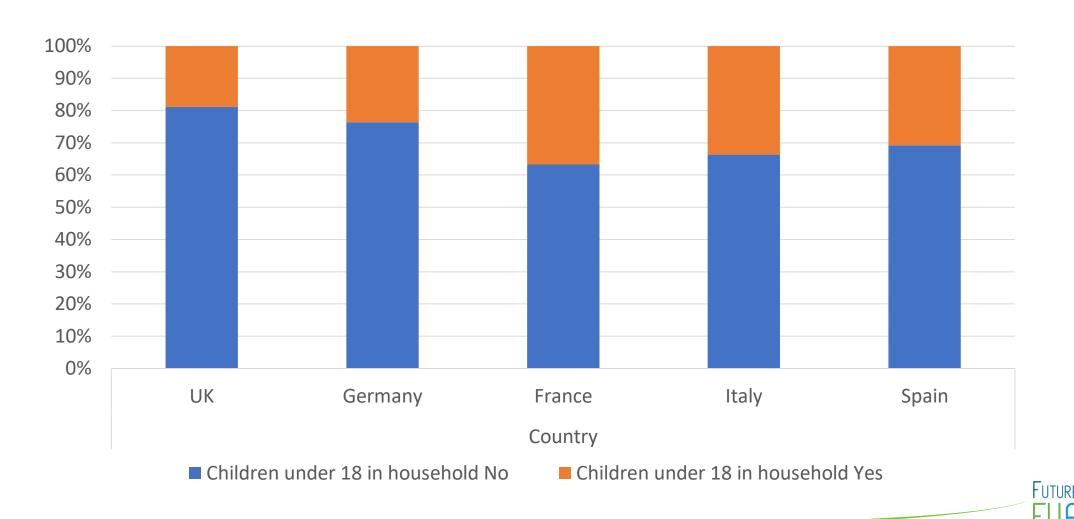
Sample description: Household income





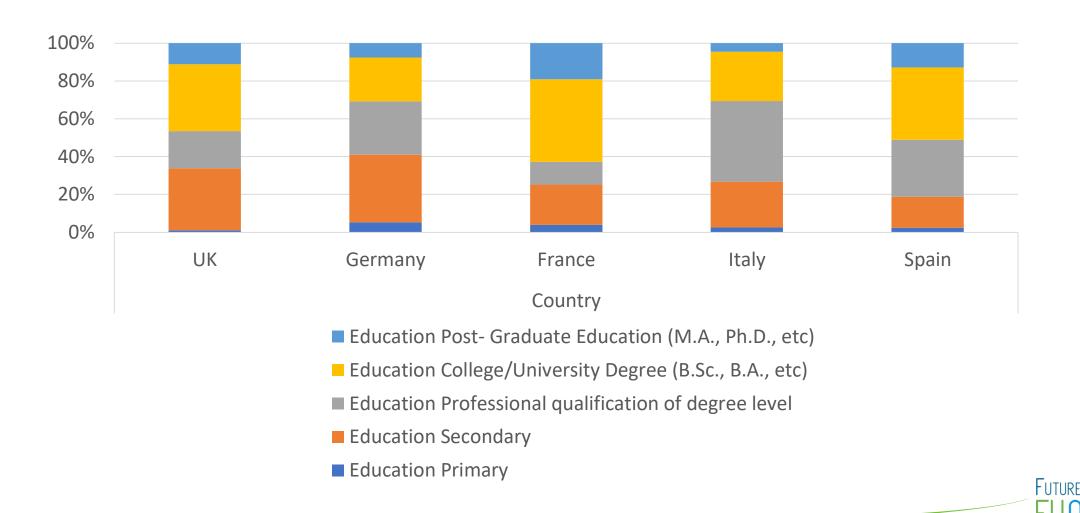
Sample description: Children





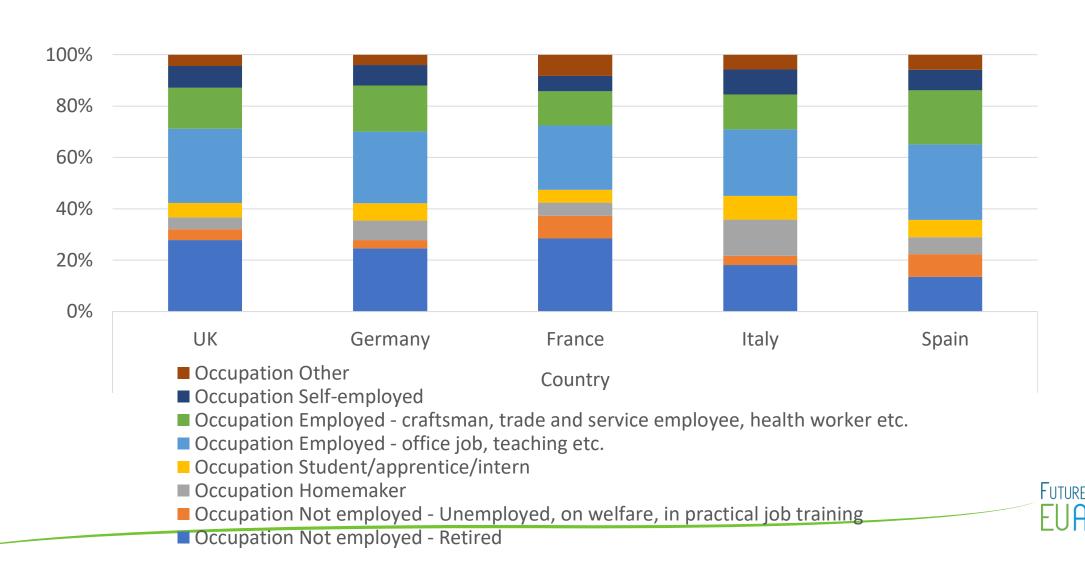
Sample description: Education





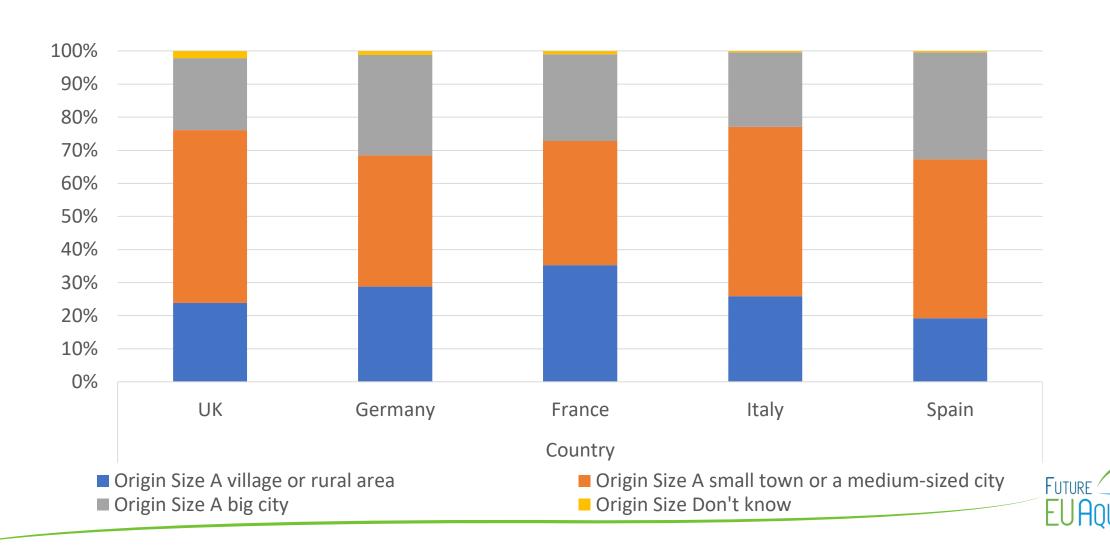
Sample description: Occupation





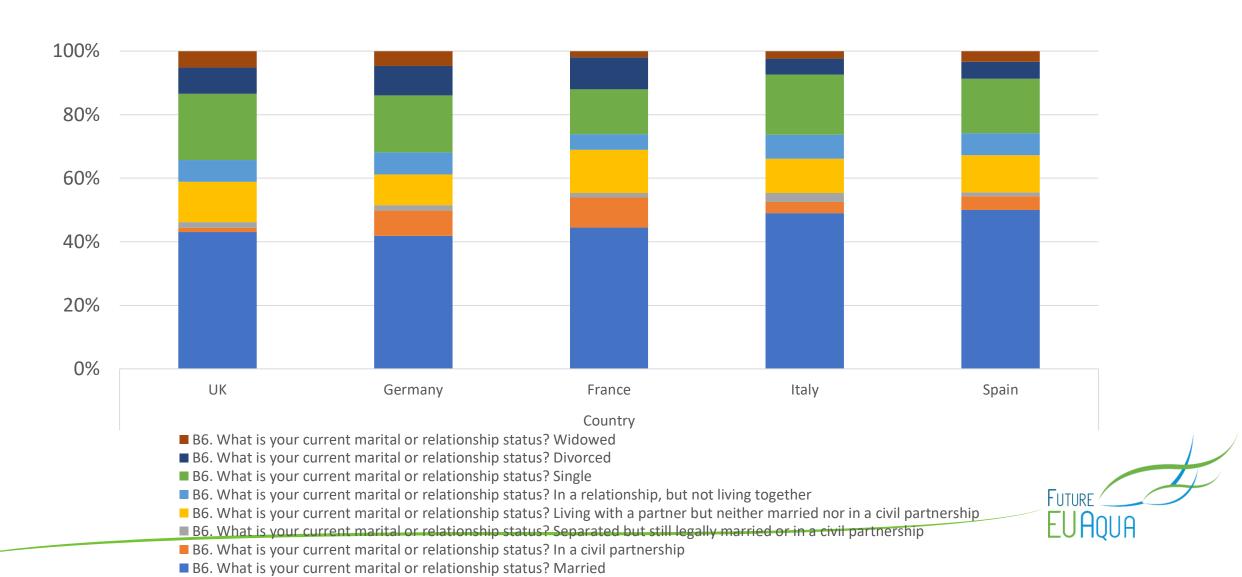
Sample description: Living area





Sample description: Marital status



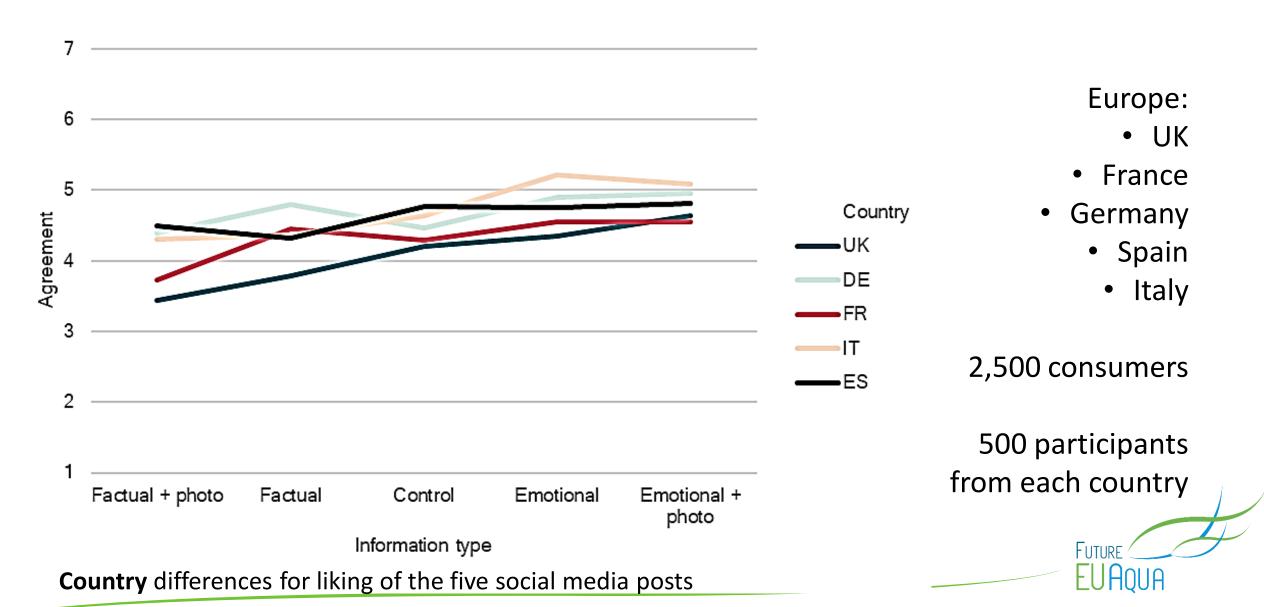


GLM of experimental conditions, central independent variables and covariates

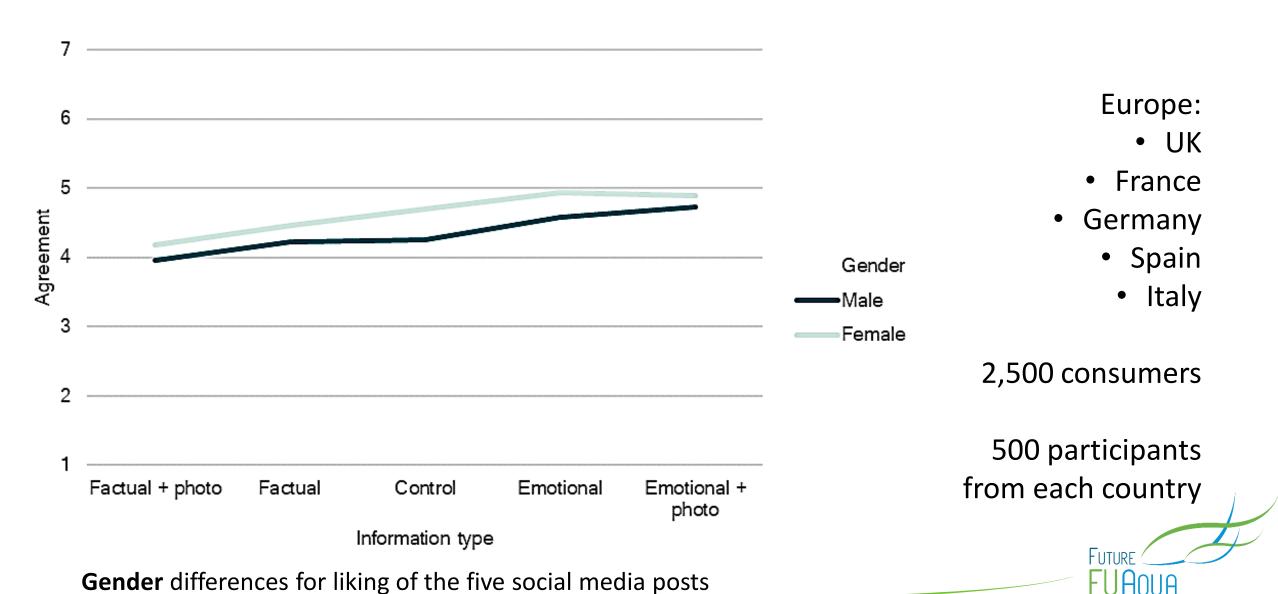
Independent Variable	Dependent Variable	Sig.
Experimental condition	This post was easy to understand	<0.001
	I like this post	<0.001
	I would forward this post on my twitter and Instagram	0.015
Country	This post was easy to understand	<0.001
	I like this post	<0.001
	I would forward this post on my twitter and Instagram	<0.001
Gender	This post was easy to understand	0.016
	I like this post	<0.001
	I would forward this post on my twitter and Instagram	0.018
Age category	This post was easy to understand	0.538
	I like this post	0.339
	I would forward this post on my twitter and Instagram	0.088



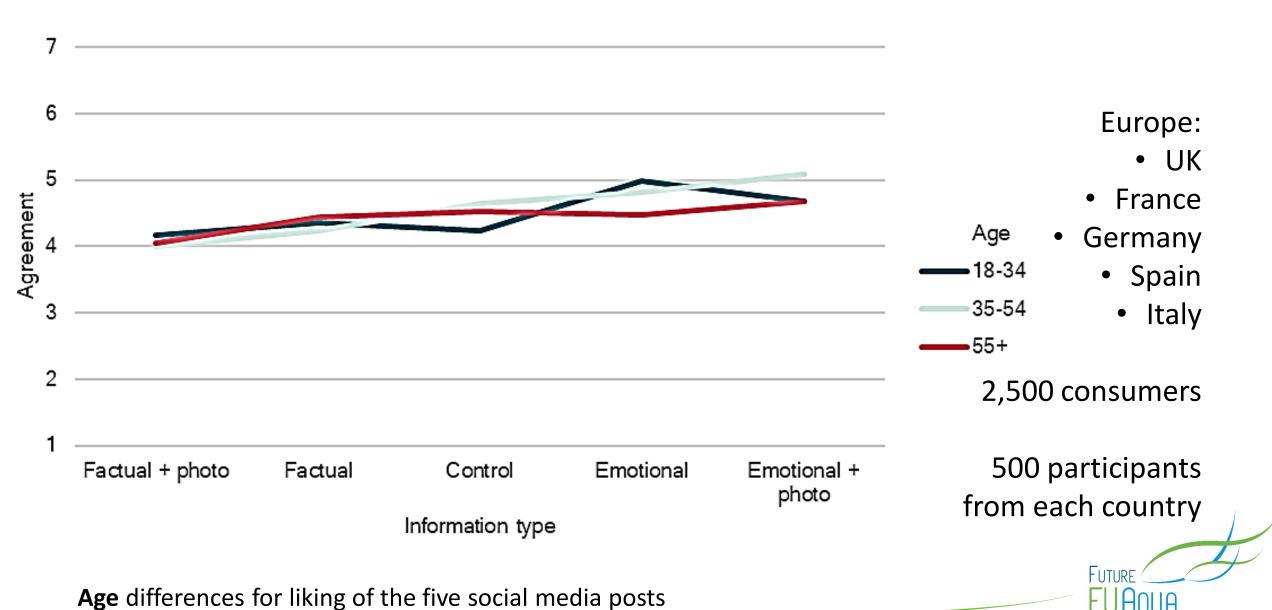














Explanations

results from UK

Condition 2 (emotional + photo)

Sustainable aquaculture in Europe is making sure that we and our children can enjoy tasty and healthy fish in the future #EUaquaculture #futureEUaqua #sustainability



I like this post because...

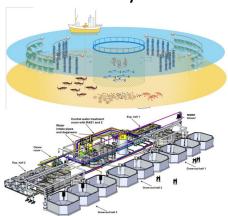


Explanations

results from UK

Condition 1 (factual + photo)

Sustainable aquaculture in Europe is growing in full control of new feed sources and water quality to deliver high quality fish #EUaquaculture #futureEUaqua #sustainability



I dislike this post because...





RECOMMENDATIONS FOR A COMMUNICATION STRATEGY



The main aim of this communication strategy is:

Increase consumer awareness, perception, and acceptance of European aquaculture.

Recommendations based on:

- Scientific literature
- Evaluations of the effectiveness of previous and current communication campaigns
- The consumer survey results from earlier tasks
- Experimental testing of the types of social media messages that consumers prefer







- Previous tasks & project OrAqua →
 - raise awareness through a communication campaign
- Previous campaigns →
 - Avoid a general approach to aquaculture and sustainability
 - Begin by providing general information
 - then adding more specific details on production systems (e.g., organic) and effects on the environment (e.g., carbon footprint).



- maximize the possibility to understand, like, and sympathize with the message
- Add matching image →
 - amplify consumers' emotions





- UK and France are the most sceptical
- Italian and Spanish are the most positive
- German liked factual posts without an image more than participants from other countries, yet, their highest liking was for emotional posts.
- Emotional messaging should be used
- Female consumers more positively → target them as influencers.
- Younger participants are less positive about pictures with emotional messages → target without pictures as part of the campaign.





Willingness to repost generally low → motivate people to repost





- Facebook is most frequently used
- Campaign focus on Instagram and Twitter, + repost/forward Facebook
- Younger consumers through Instagram
- 35- to 55-year-old through **Twitter**
- Three social media platforms are used by all → no extreme differentiations



Emotional messaging **liked** because:

- Simple and informative
- Pleasant colours
- Pictures of food
- Nice and tasty looking fish

Factual messaging disliked because:

- Complicated
- Confusing
- Overly detailed
- Unclear
- Cluttered
- Difficult to interpret





- Economic benefits of aquaculture for local communities → challenging but positive
- Animal and fish welfare →
- Environmental pollution →
 - sensitive issues →
 - should be avoided

Familiar & specific environmental issues (e.g., CO2 footprint) →
 effective (EUMOFA 2017).







Social media communication strategy targeting specific groups:

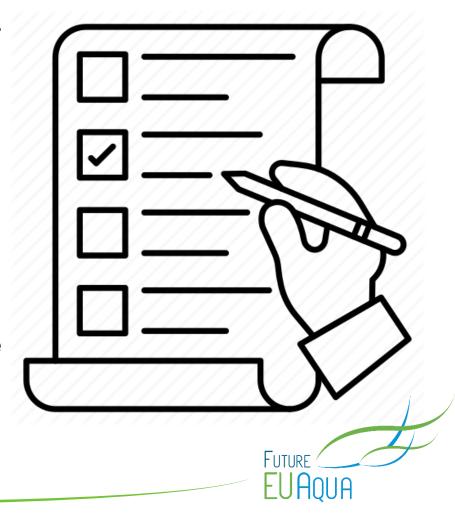
- Policy makers → tweets, more technical language. Carefully directed towards a specific group.
- Young adults and teenagers → no reference to children. Focus on the protection of nature for everyone
- The industry → adding labelling advice from eye-tracking studies in FutureEUaqua
- Visual elements (e.g. emoji) added to increase
 effectiveness per target group



Action plan for a communication strategy:

- □ Detailed plan of specific social media posts developed in accordance with increasing awareness of aquaculture in Europe.
- □ FEAP → dissemination: reports, infographics, videos and pictures → attract the attention of consumers
- □ FEAP/Nofima's media communication experts → content of social media posts
- □ Sources → literature, recent and current communication campaigns and the FutureEUAqua surveys and experiments
- ☐ Communication material: start with a broad focus on aquaculture
 → focus specifically on current and relevant information →
 production methods, environmental effects, benefits and

challenges.







CONCLUDING ONE-PAGER



Communication strategy for increased consumer awareness about aquaculture in Europe

Goal:

Inform consumers that are interested in details

Action: Knowledge available

Info type: Balanced information about

improvements in aquaculture

production methods

Source: Science

Platform: FutureEUAqua

website

Who: FutureEUAqua partners

<u>Current</u> consumer awareness about aquaculture in Europe

Goal:

Attract consumers to balanced information

Action: Weekly social media

post waves

Info type: Easy and

emotionally charged posts

Source: Media

communication experts

Platform: Instagram, Twitter

and Facebook

Who: FEAP/Nofima

Action: Forwarded weekly social media post waves **Info type**: Forwarded posts

Source: Consortium network,

sister projects and allied

campaigns

Platform: Instagram, Twitter

and Facebook

Who: Consortium network

Goal:

Expand the campaign reach and visibility

High consumer awareness about aquaculture in Europe

Action: Smart tags

Info type: Tags of key

influencers in Europe; i.e.

chefs, politicians, social media

influencers, bloggers, etc.

Source: Network and current

news

Platform: Social media

Who: FEAP/Nofima

Goal:

Amplify the campaign reach and notability



