





Stakeholders' perception of pig and chicken local breeds - a broad survey by the H2020 GERoNIMO project

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What?




To provide pig and chicken breeders with
new knowledge and tools

which promote the use of **innovative genome and epigenome-enabled selection methods**

for **efficient livestock production (ELP) traits**



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Who?

21 partners from 11 countries

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GeroNIMO objectives

Identify underlying biological mechanisms affecting trait variation **WP1&2**

More details S. Lagarrigue EAAP session 41

WP3 Map G and epiG diversity of local breeds and propose strategies to optimize the conservation of genetic and epigenetic diversity

WP4 Develop and validate methods to improve selection strategies integrating functional information and non-genetic components

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WP3 Main objectives

3 tasks focusing on local breeds (LB)

Characterise management programs

- Survey

Implement breeding programs

- Genotyping: 60K (RYR1) / assignment tool
- Phenotyping: NIRS
- OCS

Study diversity layers

- Genotyping: 60K / 10K
- Epigenotyping: GBS-MeDIP

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Case studies

Association pour la sauvegarde et la valorisation de la poule Noire de Challans

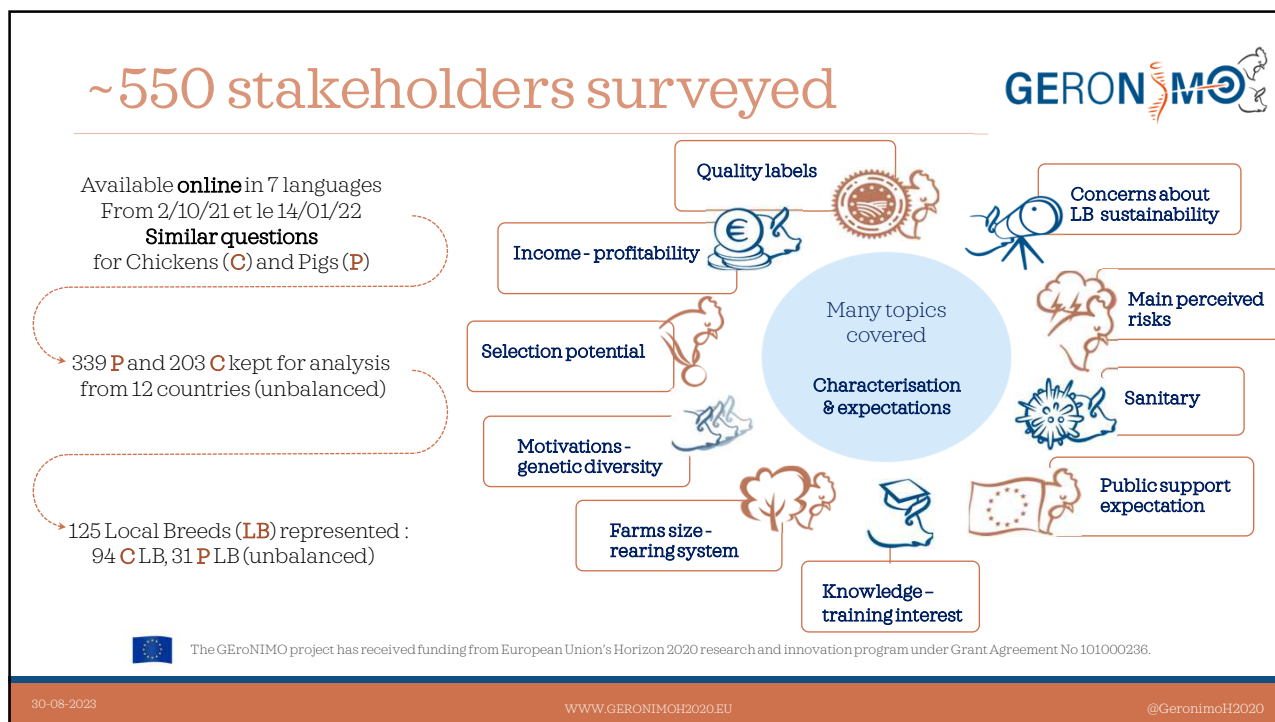
Krškopolje pig

Nustrale

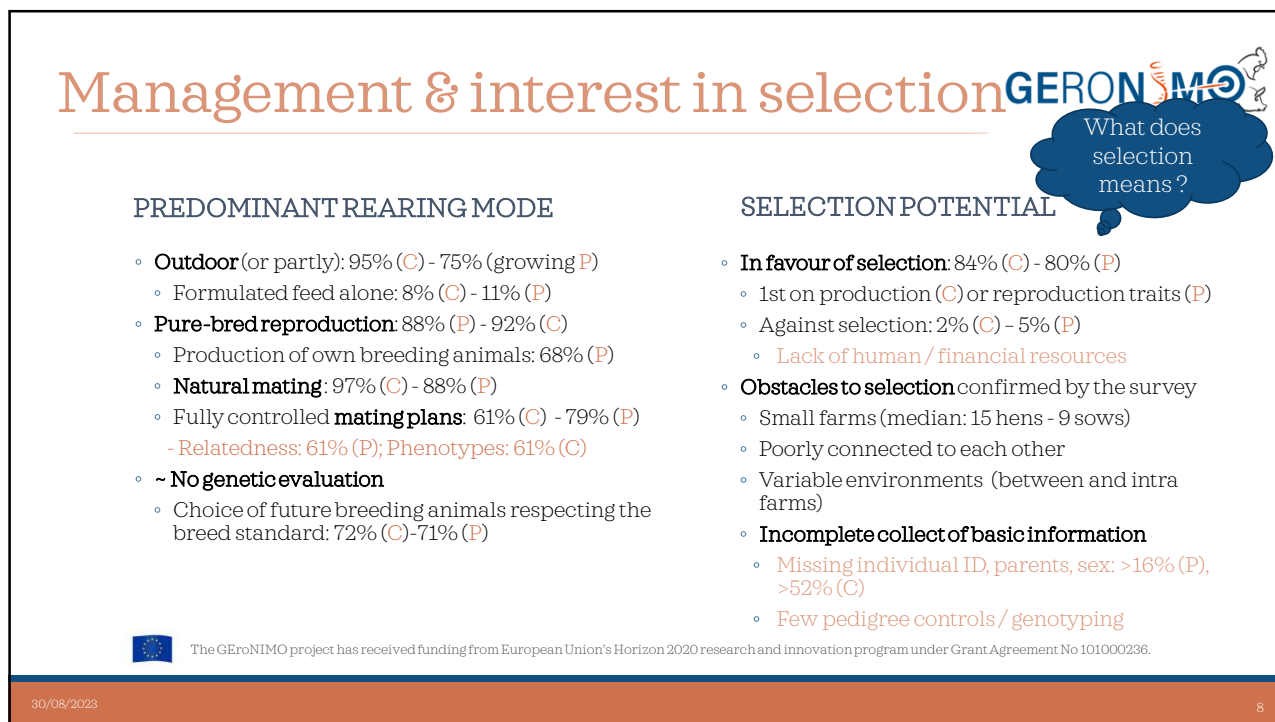
Gascon

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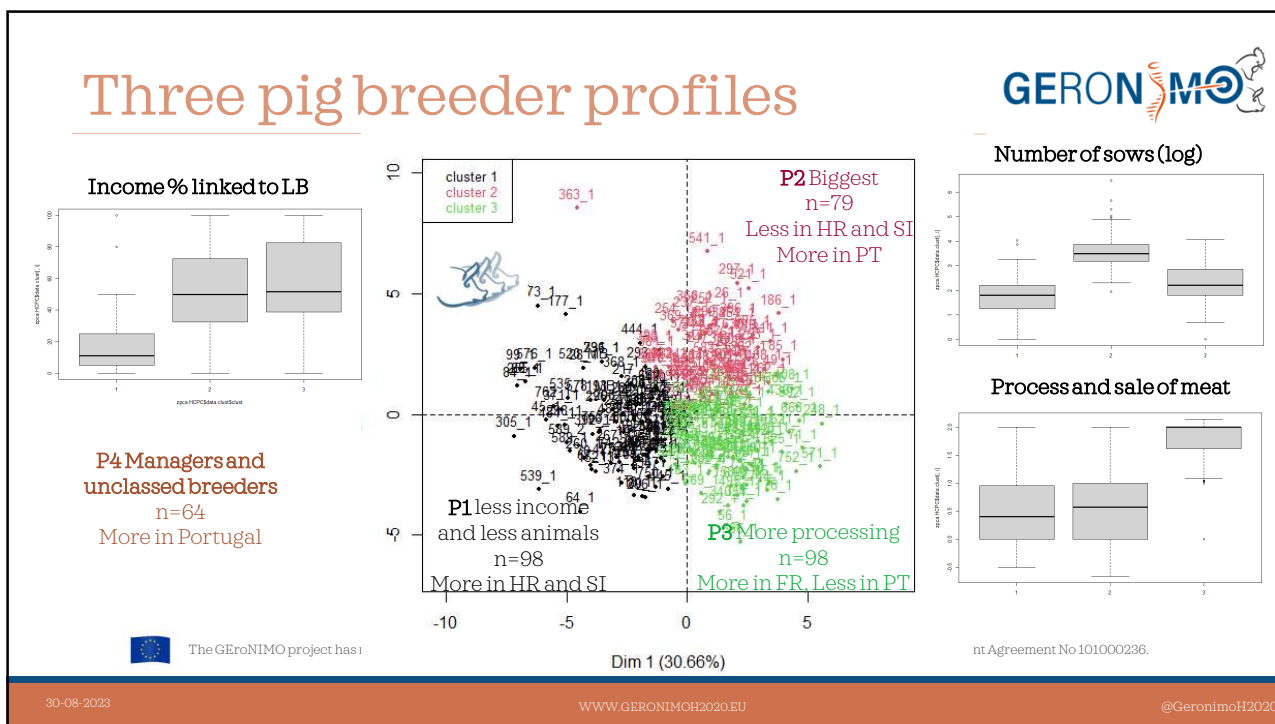
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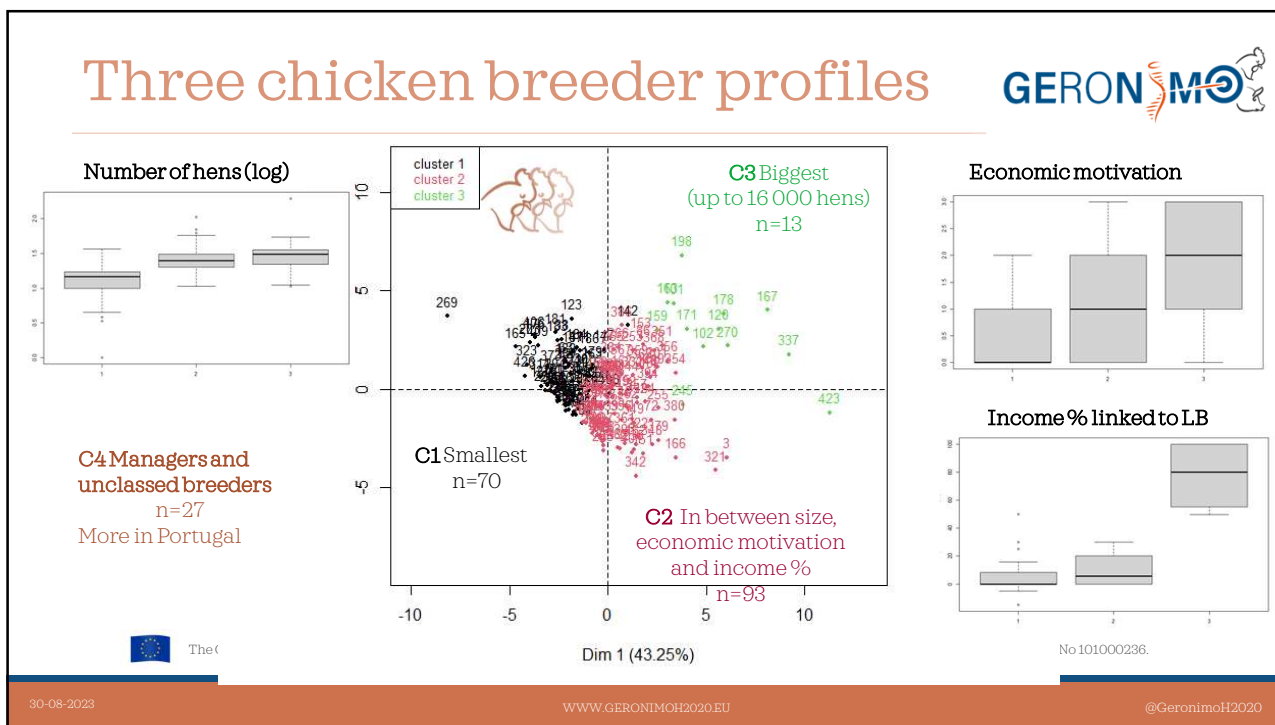
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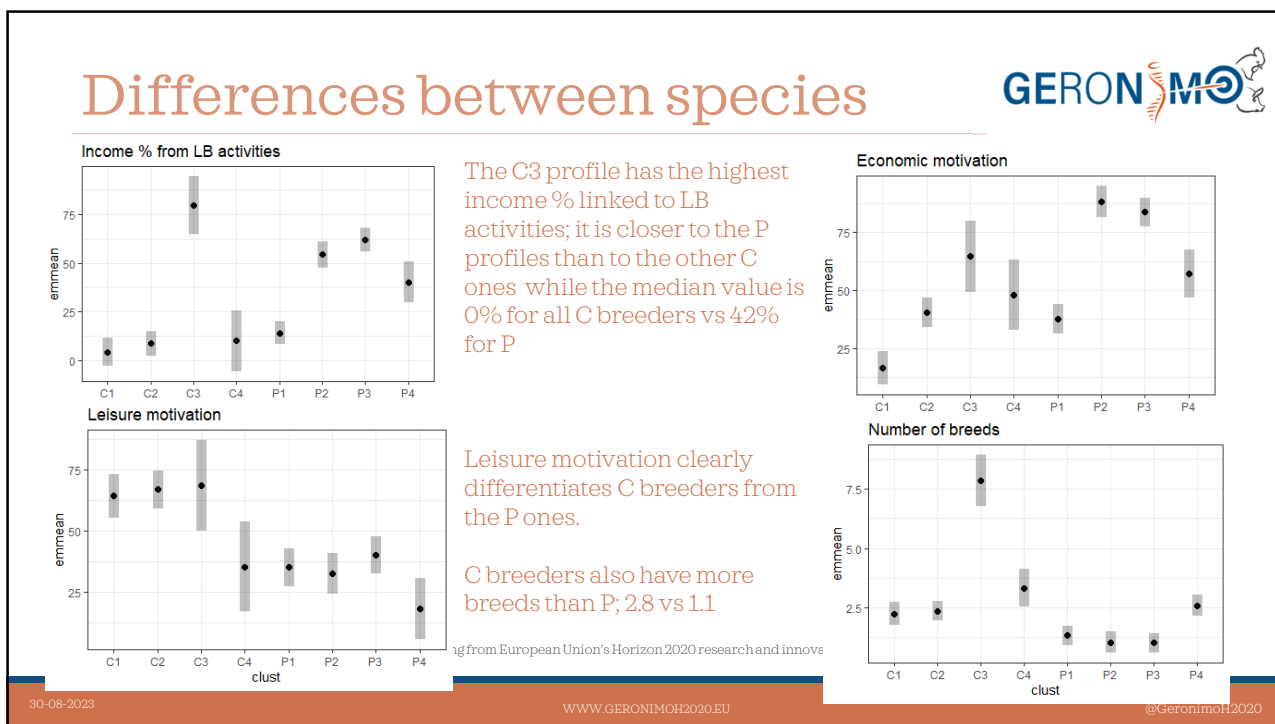
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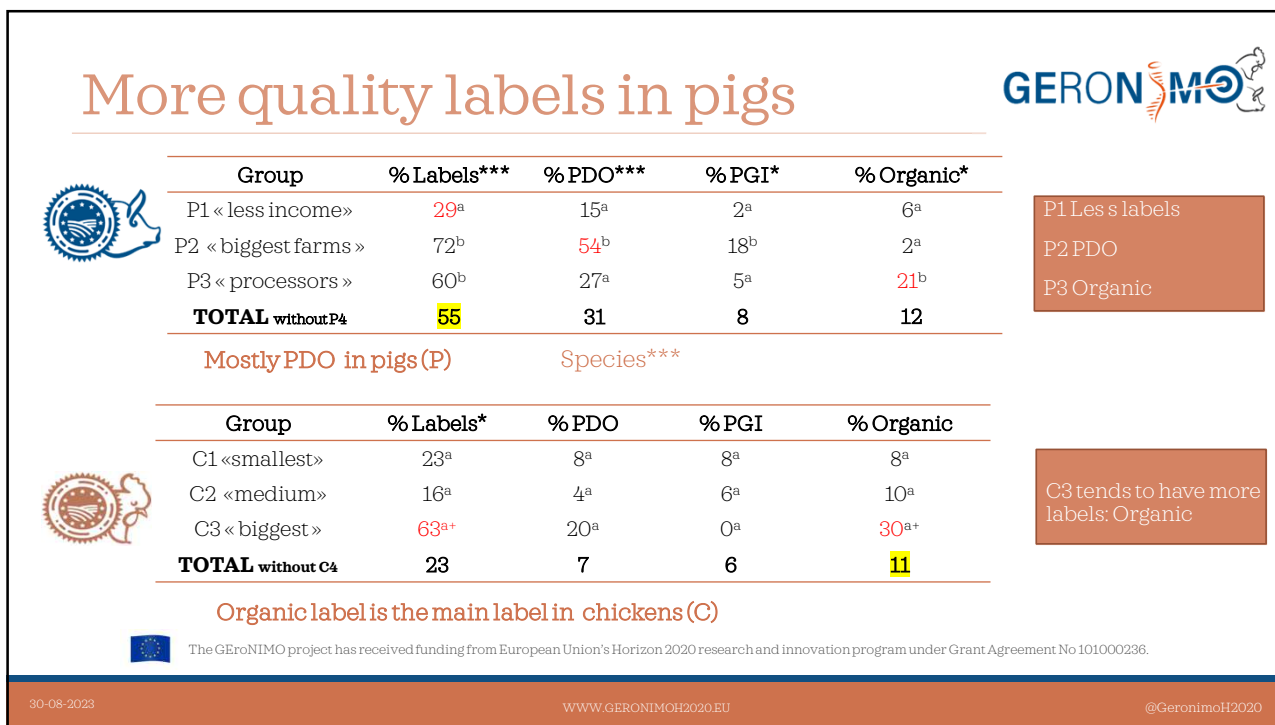
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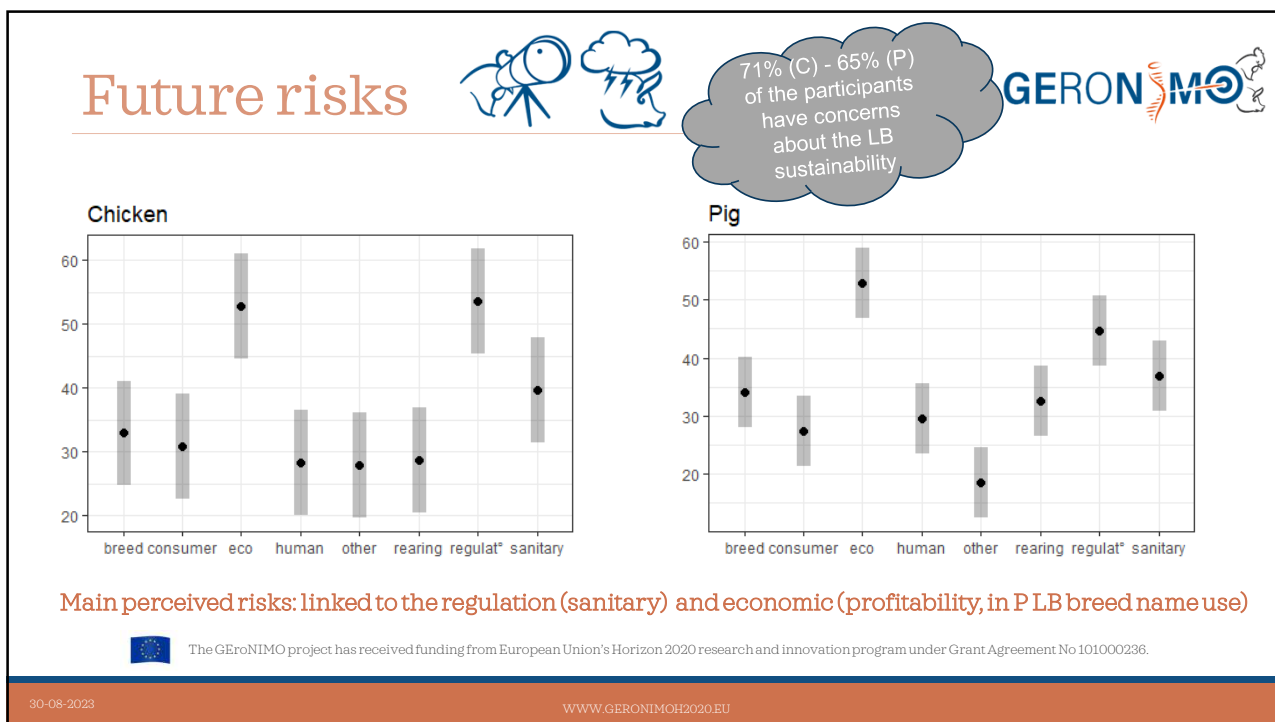
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Support expectations




71% (C) - 68% (P) of the participants expect more public support



	Profile (C)	More expressed by	Species
1) Research	NS		Significant
2) Human means	Significant	Mainly C4 but also C3-C2	Significant
3) Selection	NS		Significant
4) Incentive productivity	NS		NS

The main expectations are shared between profiles within a species but differ from the expectations of the other species. Except incitation to productivity which is shared between C and P stakeholders


	Profile (P)	More expressed by	Species
1) Incentive productivity	NS		NS
2) Abusive LB name use	NS		Significant
3) Close slaughterhouses	Significant	P3 and P4	Significant
4) Farm sanitary protection	NS		Significant

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Summary



Quality labels
56% (1st PDO) / 24% (1st organic)

Concerns about breeds sustainability:
65% to 71%

Median income % linked to local breed activities:
42% (33% deficit) / 0% (40% deficit activity)

1st Economic risks
2nd Risk linked to the regulation

~no selection but interest to select on reproduction or production but obstacles

Veterinary follow up: 98% / 56%
Serological monitoring: 75% / 14%

Main motivation: genetic diversity
2nd Economic / leisure

More public support expected
Incent productivity, protect breed names use
Subsidies for research programs

Very small farms
Outdoor or partly outdoor

74% to 79% want to be part of the GeroNIMO's communities (training..)

Many topics covered
Characterisation & expectations

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Full report available on the website



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