



Stakeholder Involvement and Ethics in Conservation of AnGR in Gene Banks

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Overview

- ➤ Introduction to H2020IMAGE
- Stakeholder Involvement of IMAGE
 - Knowledge on and understanding of Gene banks (2016)
 - Sanitary Regulations (2017)
 - Economics of conservation (2018)
 - Access and Benefit Sharing (2019)
- Survey on Innovations and Ethical Issues

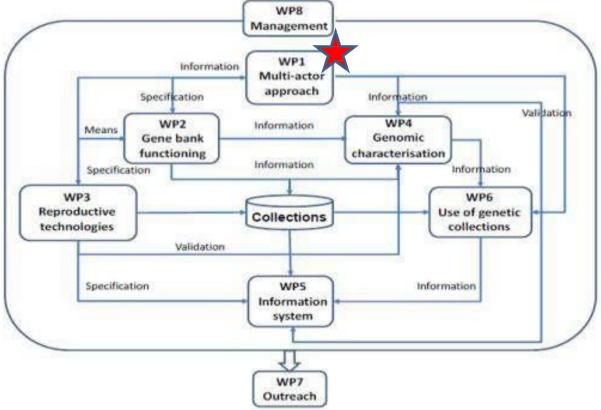




IMAGE

Innovative Management of Animal Genetic Resources: http://imageh2020.eu/ 28 partners / 7 Workpackages

(WPs) / 7 M€ / 2016-2020





European Project n° 677353

Multi Actor Participation / Knowledge Exchange

- Address different interest groups:
 - Science
 Public Bodies
 Commercial Breeders
 NGOs
- Identify needs, attitudes, and preferences of Stakeholders
- Promote cross-links, collaboration





Multi Actor Participation / Knowledge Exchange Approach

- > Research, Analysis, Rules and Stakeholders
- Surveys on different issues
- Dialogue Forum



Knowledge on and Understanding of Gene Banks (2016)

- Exchange of knowledge and options
 - international common access to genetic resources and data
 - standardization of gene bank management practices

conservation actions















Sanitary Regulations (2017)

- identify and list exceptions for the needs of gene banks
- start using PCRtest to guarantee safety (freedom from zoonosis)
- generally make rules and regulations clearer
- promote the European gene bank network (EUGENA)
- collect and publish success stories (e.g. countries with national derogations)
- raise awareness for the issues of gene bank management in the European Commission, responsible national ministries, stakeholders and general public





Economics of Conservation (2018)

Role of Economics in the Value Debate of GenRes: In-situ and exsitu conservation were contrasted

- In situ: economic value has to include the direct Values (private goods) and indirect values (public goods)
- Exsitu: Genebanks maintain future breeding opportunities (and R&D)
 - gap in harmonisation of ex situ livestock collections
 - Which breed under which conditions for cryoconservation





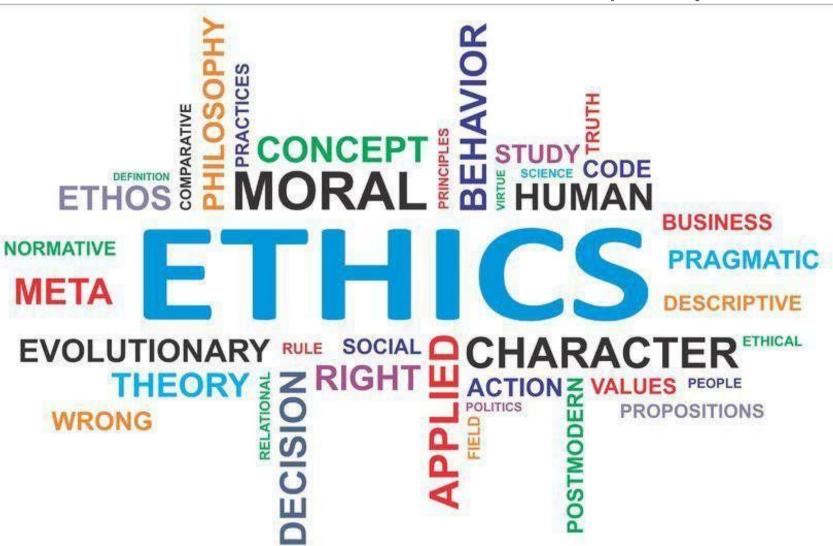
Economics of Conservation

- > Genebank and public preferences and trends
- How to optimise the benefit of gene banks for breeding
- ➤ Incentives for conservation: Helpful or Hindrance?
- > Pan European resource bank or national ones?





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Innovations and ethical issues for the cryoconservation of animal genetic resources

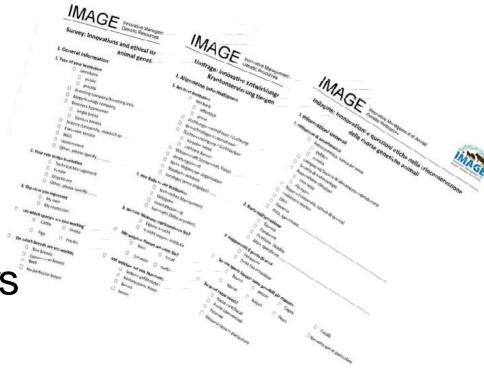
- ➤ Important H2020 requirement
- > General questions on Conservation:
 - > what are the criteria
 - ➤ Who should pay
 - Cryoconservation Methods





Approach

- Short
- Clearly
- Anonymous
- single check answers
- Personal instruction





Consultation

- WG Ex Situ(ERFP)
- Side event / ITWG-AnGR (FAO)
- > SAVE Meeting
- 3rd Dialogue Forum IMAGE
- WUR Post Graduate course
- AQUAGAMETE
- On-line french questionnaire
- Italian questionnaire for It. NGOs (2019)►
- ➤ It/EN/DE/ to single breeders of Arca-Net (2019)

- > Answers from
- > 81 Research organisations or University
- > 35 Breeders associations
- > 22 Government representatives
- 12 NGO
- > 2 Breeding companies
 - 2 Biotech companies

7 events, 159 answers (2018)





Outcomes (2018) European Project n° 677353

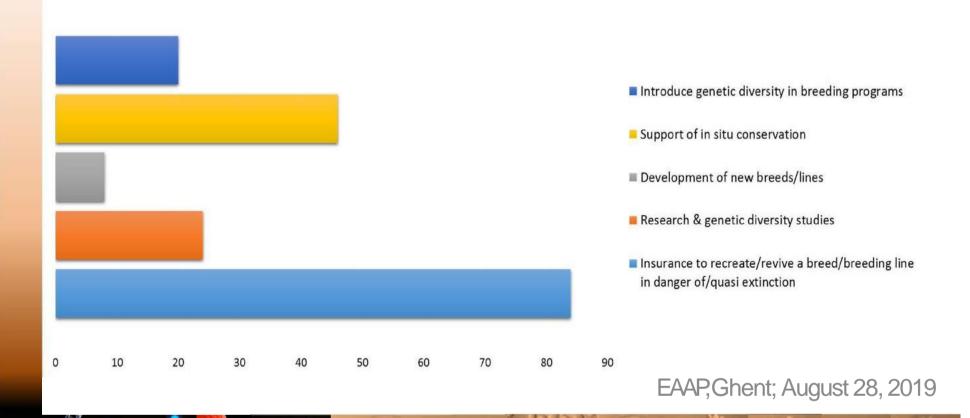
E.Charvolin-Lemaire - D.Laloe - INRA GABI





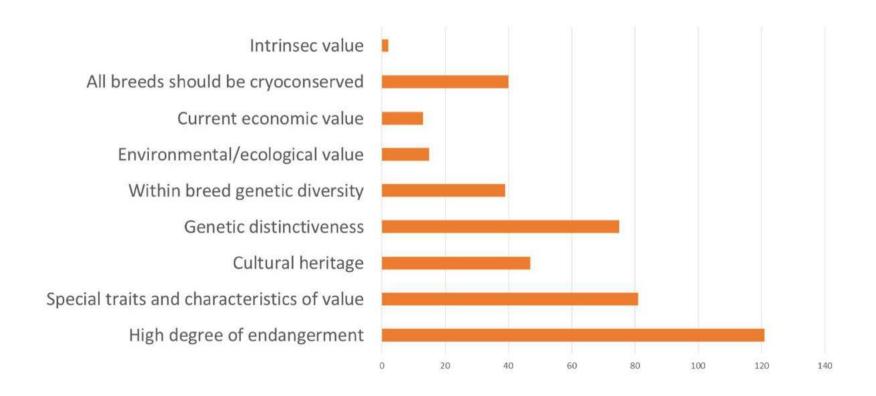


Objectives of Cryoconservation





European Project n° 67735 Which Breed for Cryoconservation?

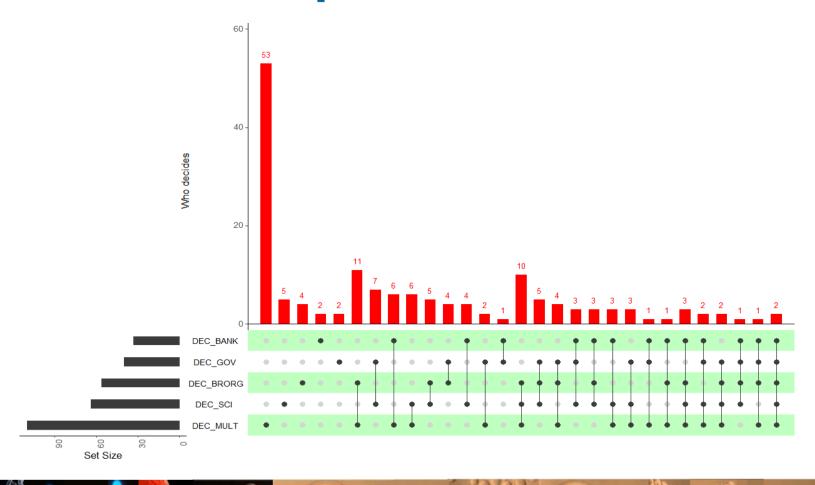






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Who shall prioritize and decide



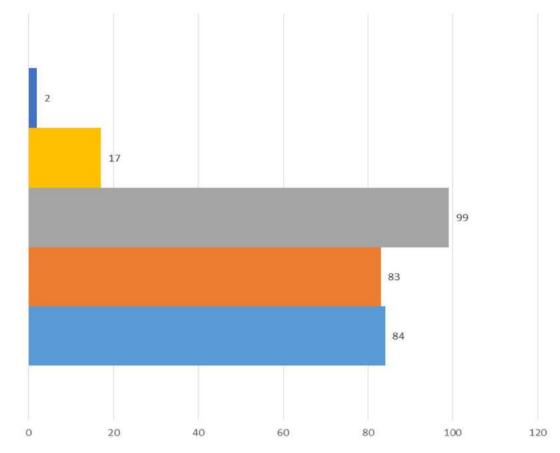


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Impact on in situ Conservation



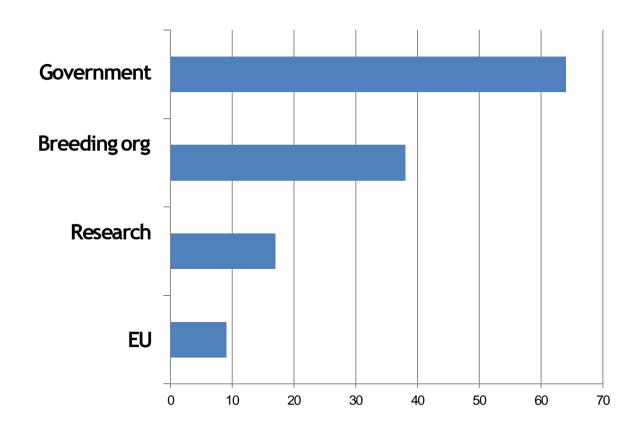
- Negative effect on support/subsidies for in situ conservation
- Conservation of withinbreed genetic diversity
- Collaboration of conservation breeders and research
- Revitalizing blood lines





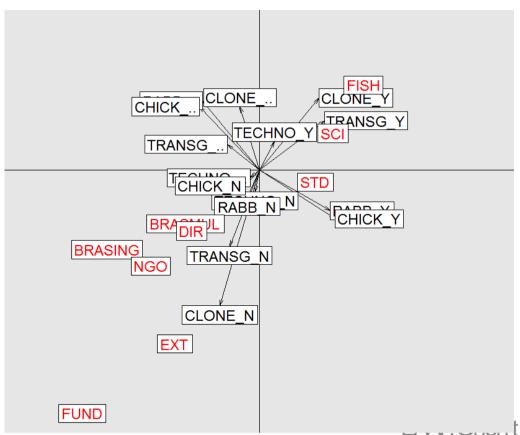


Who schould pay



HORLZ N 2020

Innovations in bio banking and 677353 trades off



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Conclusion

- Stakeholders show various profiles
- > answers depend on profile
- Gene banks = kind of insurance
- Choice of breeds: mainly endangered
- Decision making: Multi Actor Board
- Payment: Governments
- > Subsidies: 11% = negative effect on in situ
- > Technology and Ethics:
 - Generally positive except cloning



THANK YOU VERY MUCH



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