ELPHA

European Live Poultry and Hatching Egg Association

NO CULLING OF MALES-DOC IN LAYER BUSINESS

23rd November 2022

ELPHA - EPB

ELPHA represents the interest of the entire ´live poultry´ sector which ranges **from the selection of the breeds to the placing of the birds in the farm for the production of poultry meat and/or (hatching) eggs.**

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AGENDA

1. **CONTEXT**

2. **AVAILABLE STRATEGIES**
   a) IN OVO sexing
   b) Rearing males for meat production
   c) Dual purpose breed

3. **CONCLUSION**

CONTEXT

ELPHA POSITION

ELPHA members have recognized this issue for a long time.

ELPHA supports the need to find a suitable and sustainable solution in order to address this topic.

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LAYER BUSINESS AT A GLANCE

1 2 3 4 years

Breeding company

Choice of breeds (Selection lines, compilation breeds)

Pure lines

Grand Parents

Farm 1

Rearing until fertile age

0-17 weeks

Farm 2

Production of hatching eggs

18-70 weeks

Hatchery

Incubation and hatching

21 days

Farm 3

Production of table eggs

18-90 weeks

Processing

Packing and Processing

Parents

LAYER BUSINESS AT A GLANCE

Hatch Layers

50% Females

50% Males

Reared for layers

Euthanasia for animal feed

MARKET

- Cost efficient market
- Awareness & willingness consumers to pay additional measures
- Level playing field
- Import consumption eggs outside Europe
- Export layers outside Europe

AVAILABLE STRATEGIES

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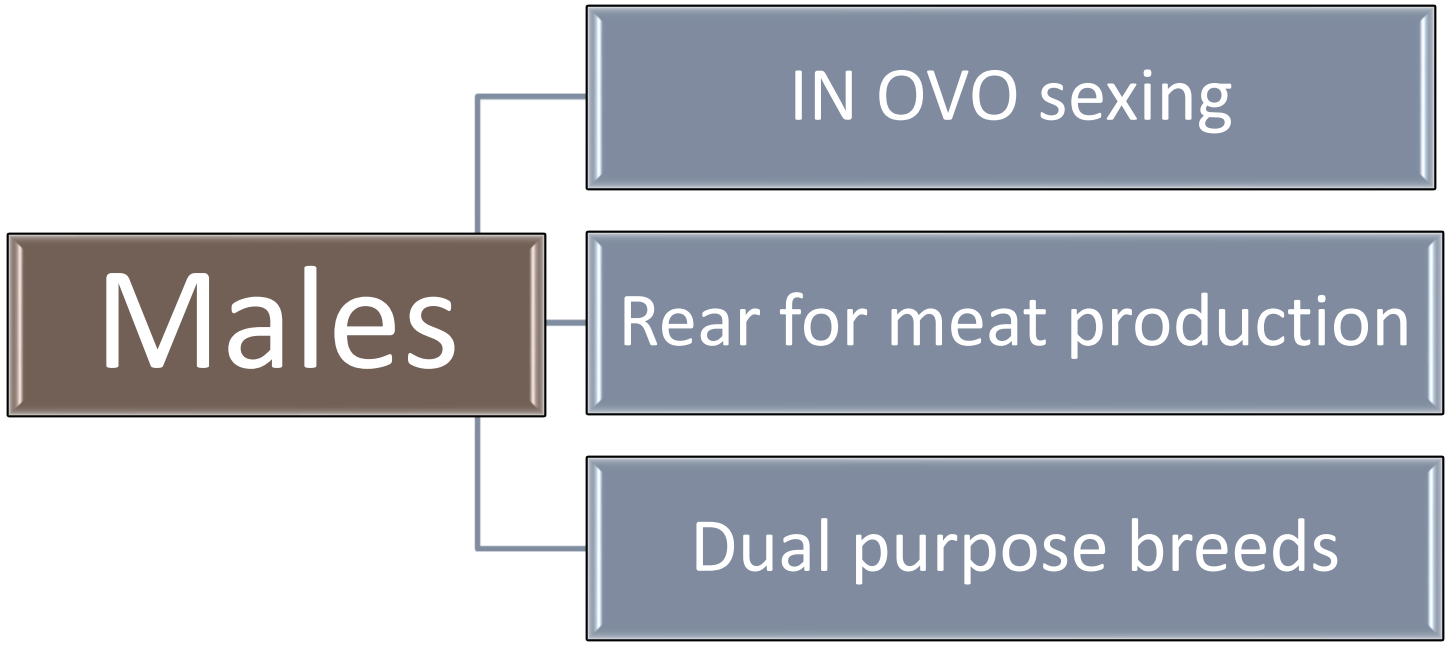
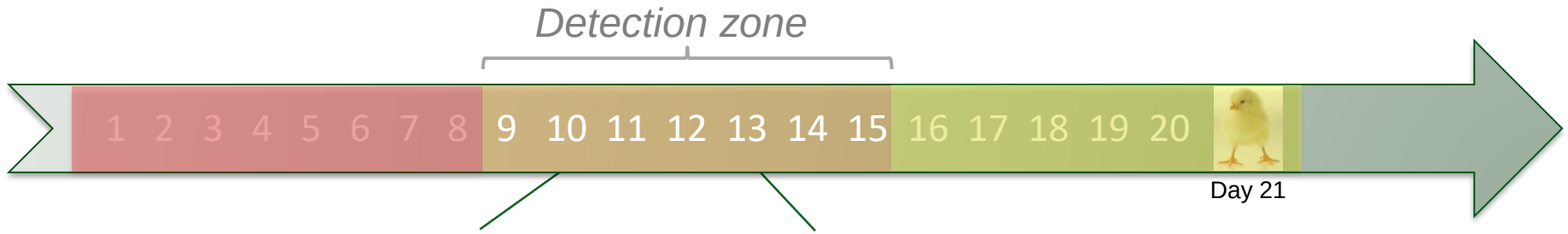


AVAILABLE STRATEGIES



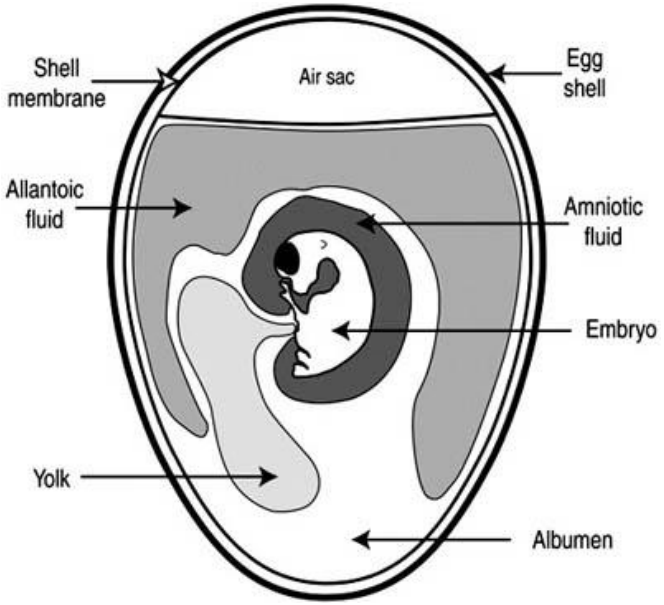
Invasive (sampling allantoic fluid) **Measurement out of the egg**			**Non-invasive** (optical analysis) **Measurement inside the egg**	**Growing of the males**
				
SELEGGT responsible solutions	IN OVO	PLANTegg	AAT GmbH EW GROUP COMPANY	
started 06/2018	11/2020	11/2020	12/2019	
3.3 – 3.5 €/DOC			1.2 €/DOC	~4 – 5 €/DOC

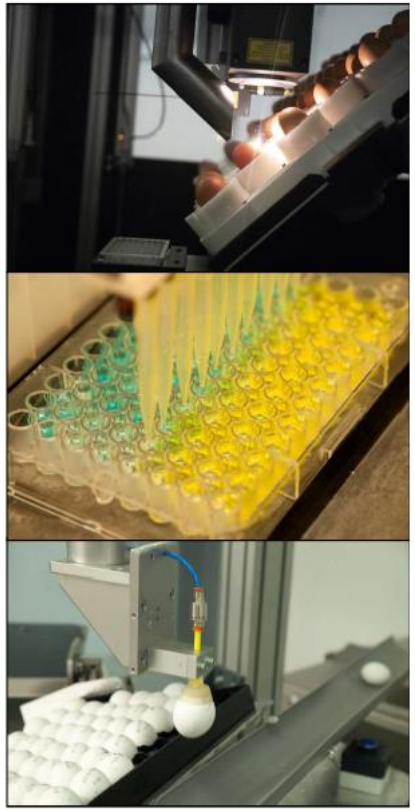
IN OVO SEXING

In practical use today…

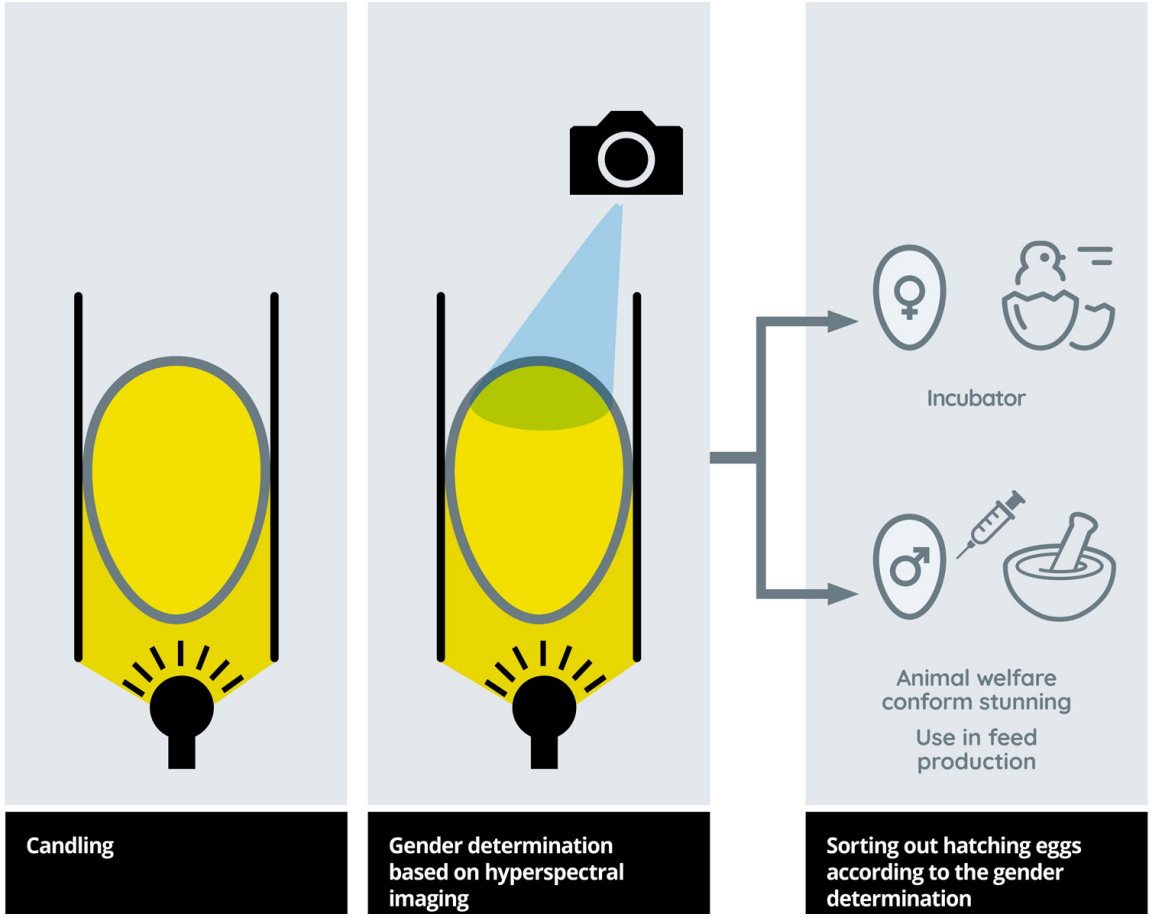
FLUID BASED GENDER DETERMINATION

- Collect liquid samples from every egg
- Gender determination by analysing allantoic fluid





GENDER DETERMINATION - HYPERSPECTRAL



PROS and CONS

POSITIVE

- Almost no hatch of males
- Development techniques are going fast

NEGATIVE

- Capacity far too low today
- Impact on hatchability and fluctuating results
- Prime flocks
- Cost effectiveness
- More hatching eggs needed

REARING OF MALES

REARING OF MALES FOR MEAT PRODUCTION

BROILER

- 35 days – 2.5 kg
- Evisceration 75%
- FCR 1.6
- CO2 footprint 100%

LAYER MALE

- 84 days – 1.4 kg
- Evisceration 58 %
- FCR 4.3
- CO2 footprint 250%

PROS and CONS

POSITIVE

- Purpose for males

NEGATIVE

- Not efficient
- High CO2 footprint
- High cost
- Not sustainable

DUAL PURPOSE BREED

DUAL PURPOSE BREED

- Females breed for production laying eggs
- Males breed for meat production

PROS and CONS

POSITIVE

- Purpose for males

NEGATIVE

- No efficient egg production
- No efficient meat production
- Highest CO2 footprint from all strategies
- Ethical impact

CONCLUSION

CONCLUSION

We support finding a sustainable solution

We need time (to fine tune the techniques)

We need an impact assessment

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We are part of the solution!