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Hybrid feed - Concept

Transition feed for transition phase

Nutrients		
ME	Kcal / kg	2,700
Dig Lis	%	0.80
Dig Met	%	0.40
Dig M+C	%	0.72
Dig Thr	%	0.56
Dig Trp	%	0.18
Ca	%	3.8
Av. P	%	0.44

→ Low energy

High amino acids

- Enough to lay on egg
- Sufficient to preserve bone medullary
 - 60% carbonate in coarse particle form

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Inside of the medullary bone

Excessive use of pre-lay diet (2.5% Ca)
Limited feed intake at the onset of egg production
Insufficient bones calcium reserve

Feed intake	100g	100g	100g	100g	100g	100g
Calcium	2.5g	2.5g	2.5g	2.5g	2.5g	2.5g
4g Ca	✓	✓	✓	✗	✗	✓
Output OM	1.5g	1.5g	1.5g	0g	0g	1.5g
Ca OM	+0.5g	-1g	-2.5g	-0.5g	+2.5g	+1g

Peak persistence compromised

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Inside of the medullary bone

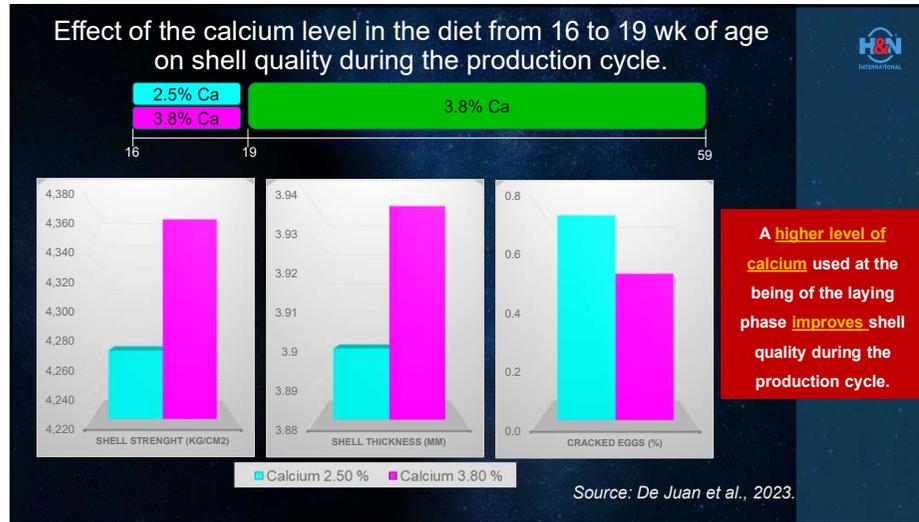
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4g Ca	✓	✓	✓	✗	✗	✓
Output OM	1.5g	1.5g	1.5g	1.5g	1.5g	1.5g
Ca OM	+0.5g	-1g	-2.5g	-4g	-5.5g	-7g

Medullary bone
Trabecular bone
Cortical bone

- Decalcification (acute/chronic)
- Mortality
- Egg production
- Shell quality

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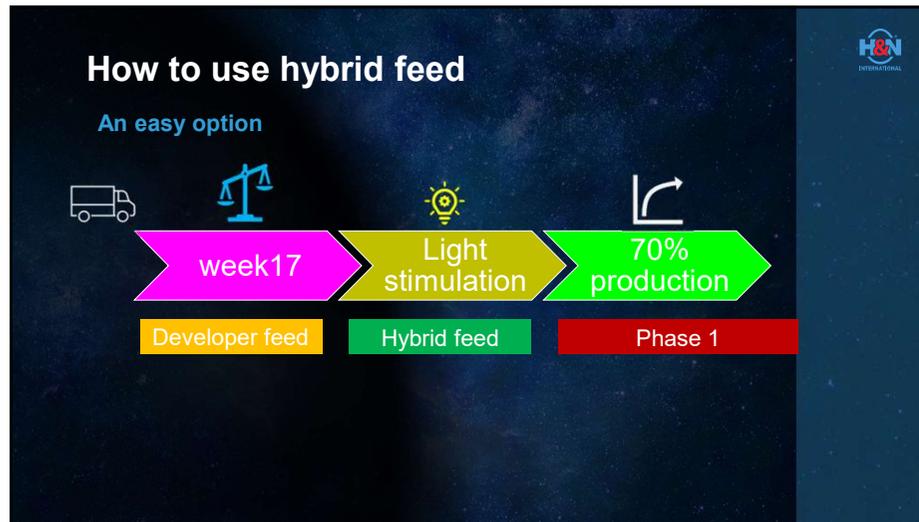
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Dig M+C	%	0.72
Dig Thr	%	0.56
Dig Trp	%	0.18
Ca	%	3.8
Av. P	%	0.44
Crude Fibre	%	3.5-4.0
Salt	%	0.28

- Low energy
- High amino acids
 - Enough to lay on egg
 - Sufficient to preserve bone medullary
 - 60% carbonate in coarse particle form
- Keep the feed intake development
- Stimulate feed intake

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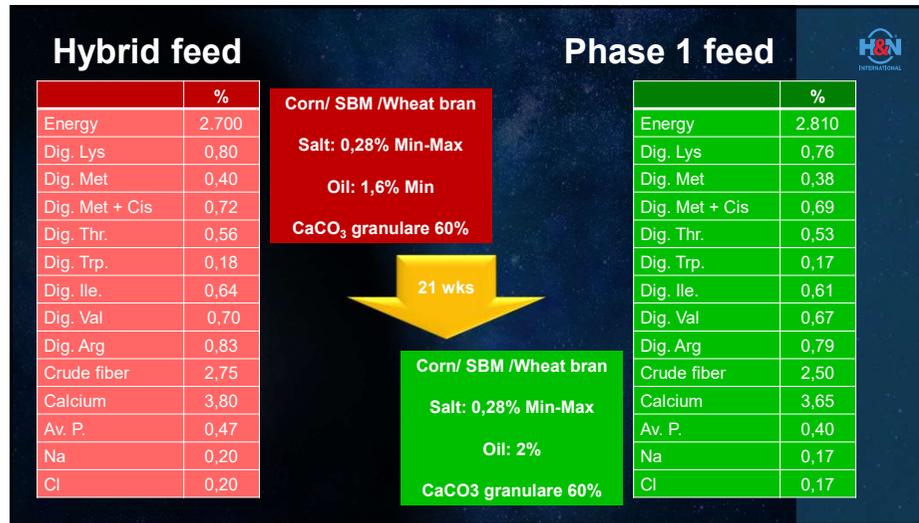
Nick chick and egg size

Start in October 2023 – part 1

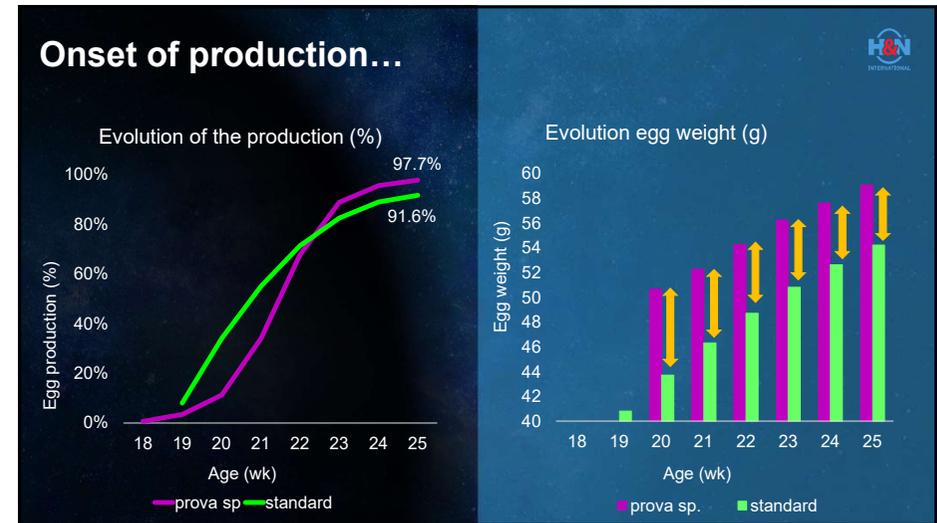
- Housing
 - Number cages: 144
 - Number of birds: 720
 - Feeder space: 9.6 cm / bird (3.78 in)
- Feeding
 - Arrival: **developer feed.**
 - At light stimulation: **Hybrid feed**
 - At 21 weeks changed to **layer 1**
 - At 25 weeks start the **treatments**
- Treatments
 - Energy: 2810 kcal / kg
 - Amino acids (Lys mg): 590 / 670 / 750 / 830

Light stimulation at: 1250 grams
Light hours at rearing: 12 hours
Stimulation: +2+1+1 / week

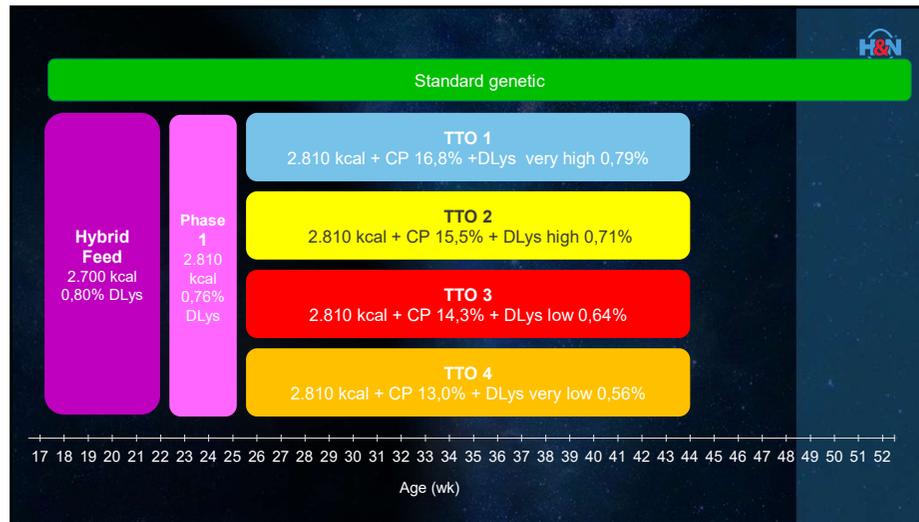
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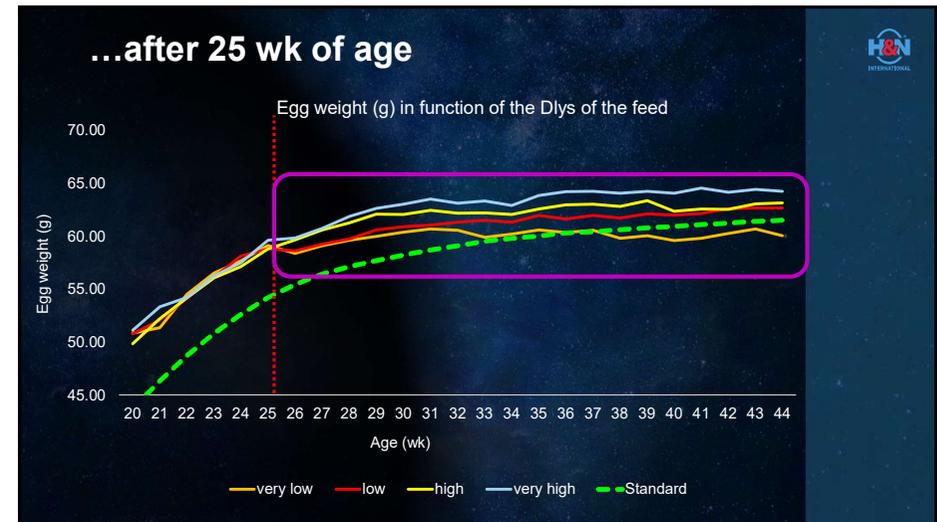
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Summary – Hybrid feed and egg weight control



1. **Transition phase** is a critical period of the bird's life and requires **specific nutritional attention**
2. **Hybrid feed is a nutritional strategy** efficacy for:
 - ✓ **Managing in a simple way** a very complicated phase of the bird's life, like the start of laying
 - ✓ Covering the requirements of the birds, essential **to promote an optimal start of egg production**
 - ✓ **Promoting a good bone quality**, a key factor to achieve long egg production cycles
3. An appropriate **managing of the amino acids** in the diet is key for:
 - ✓ Achieving to produce eggs with **the desired egg weight**
 - ✓ Reducing of feed costs, **increasing the company's competitiveness**

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