

Breeding for your Success

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HEN ATIONAL

Breeding Farms

Single Cages



Group Cages



Floor System





Data Recording

Field Testing – Commercial Farms

Group Cages



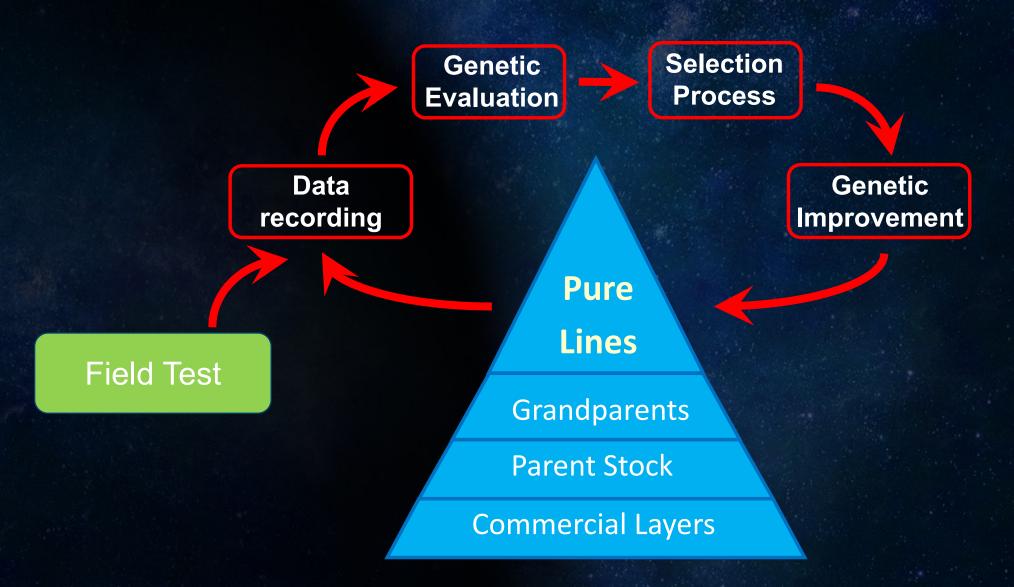


Free Range



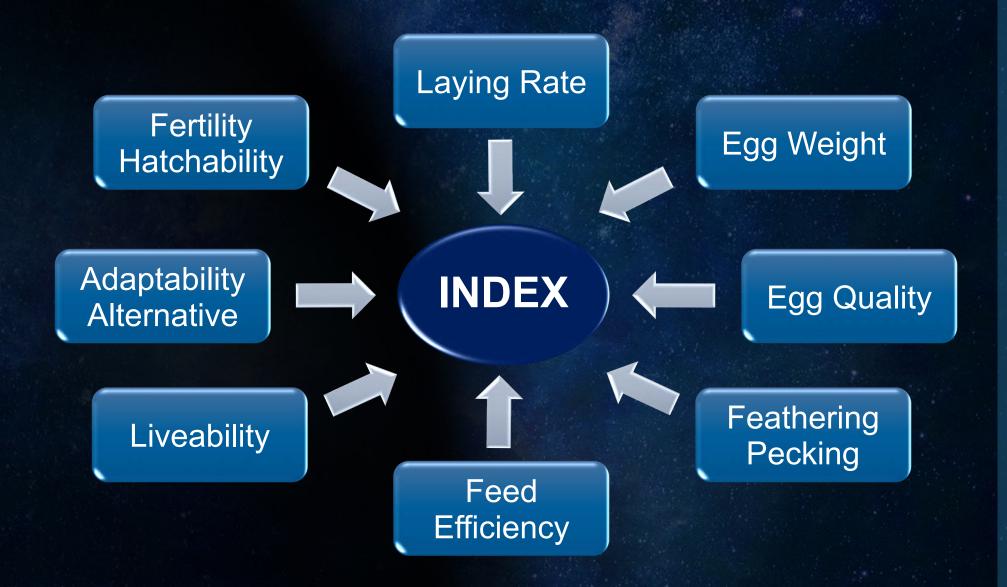






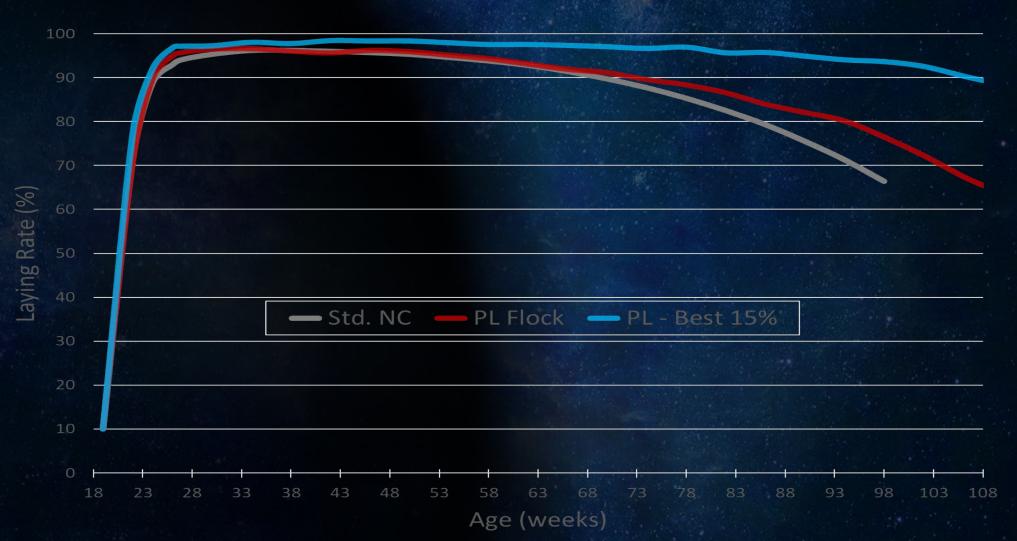








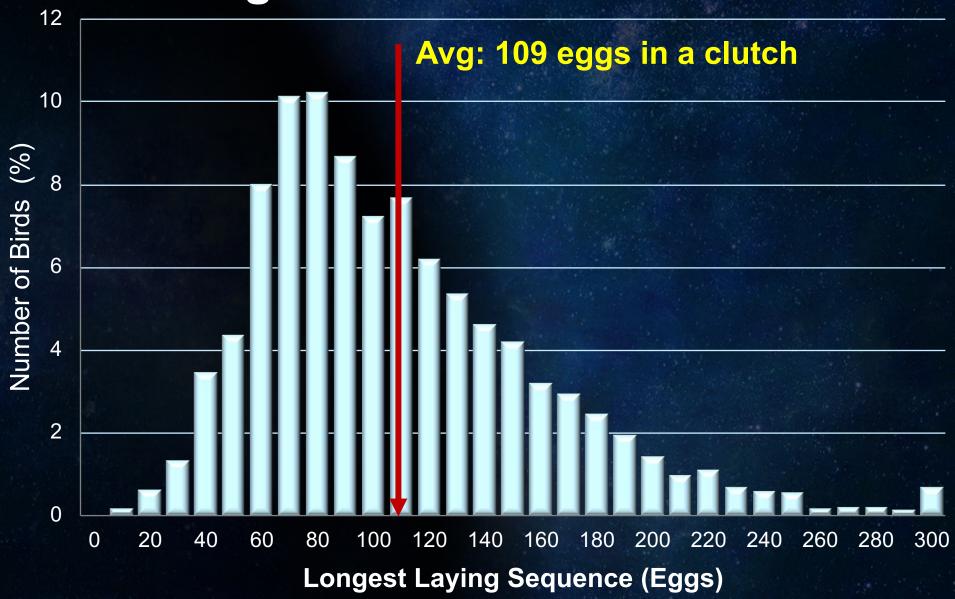
White Pure Line





Clutch length

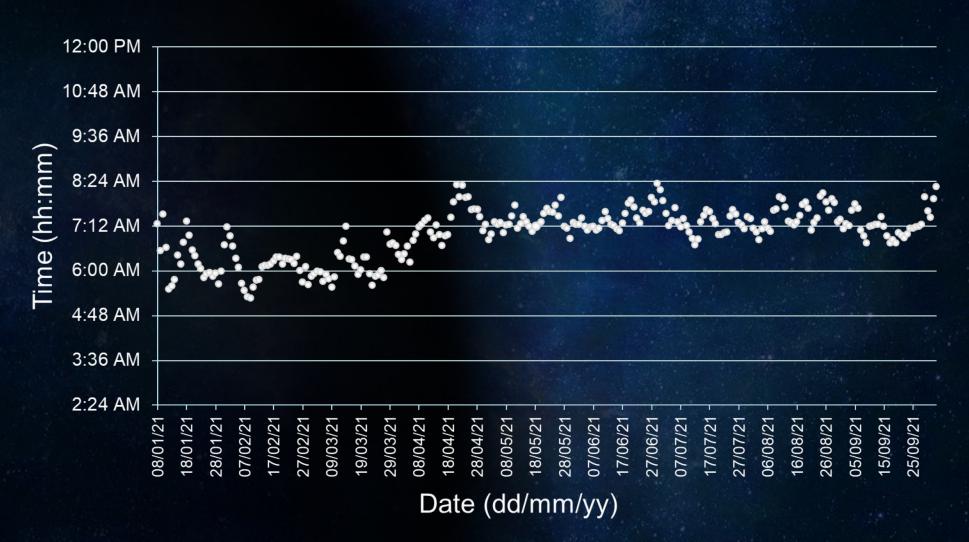






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White egg hen – 269 Eggs in 269 production days (100%)



Eggshell Strength

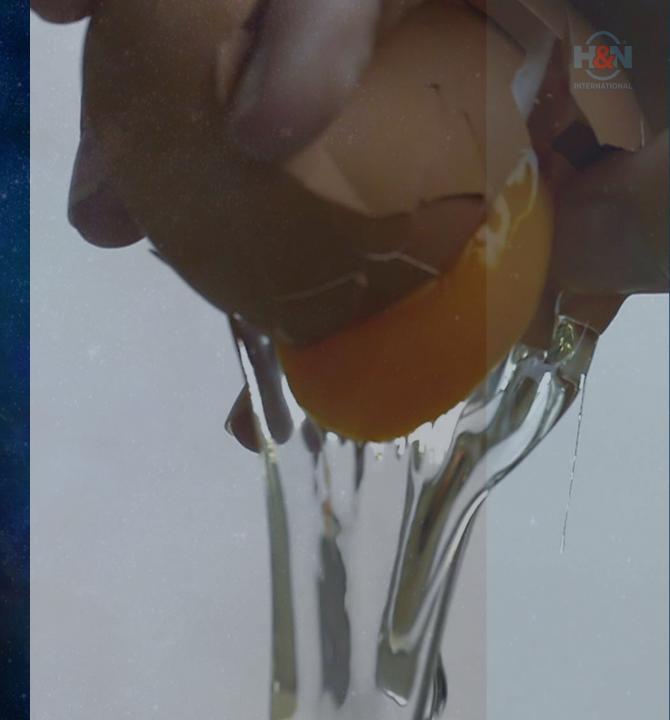
Eggs breaks at the right time!

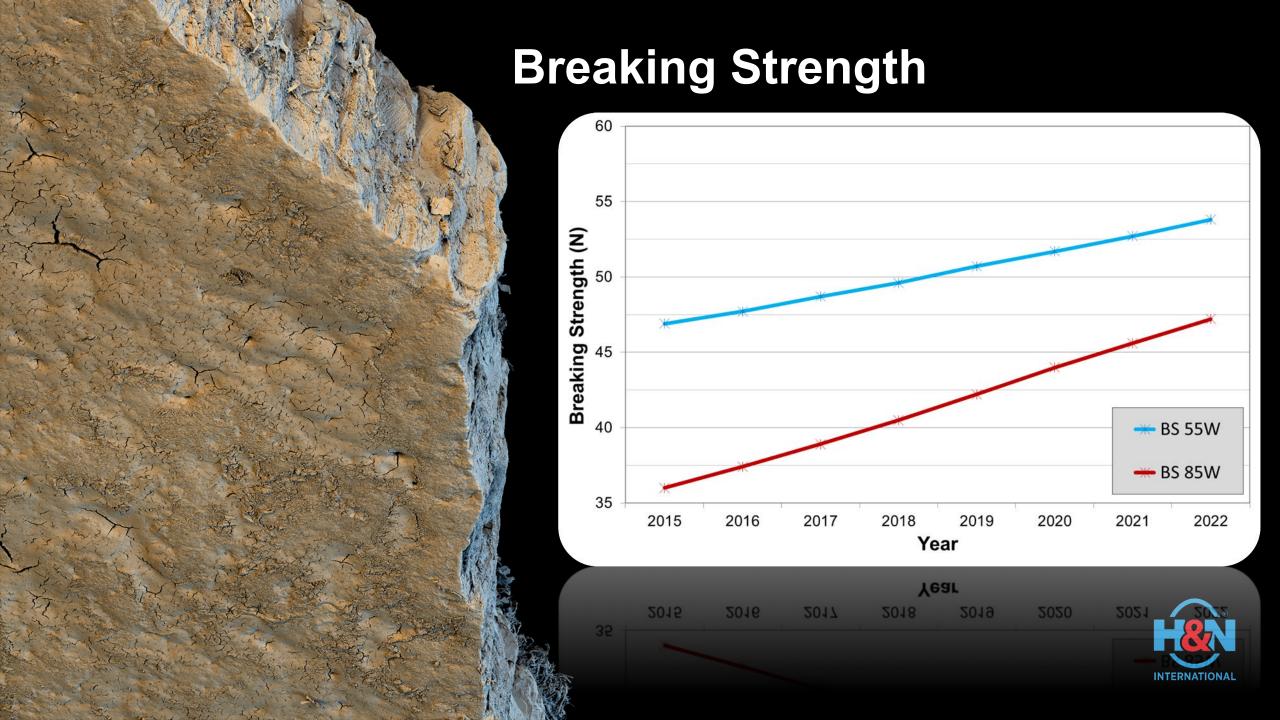




Selecting for a better eggshell:

- ✓ Reduce waste
- ✓ Decrease contamination risk
- Extend flock production life





Egg Weight



Influencing Factors:

- Light stimulation, Body Weight, Feed
- \triangleright Genetic $h^2 \sim 0.6$



Goals:

- Max. N. eggs in desired class.
- Fast EW increase at the beginning
- Flat EW curve after 60 weeks





Not only Costs! - BW & Uniformity: The key for success!

Good Immune System

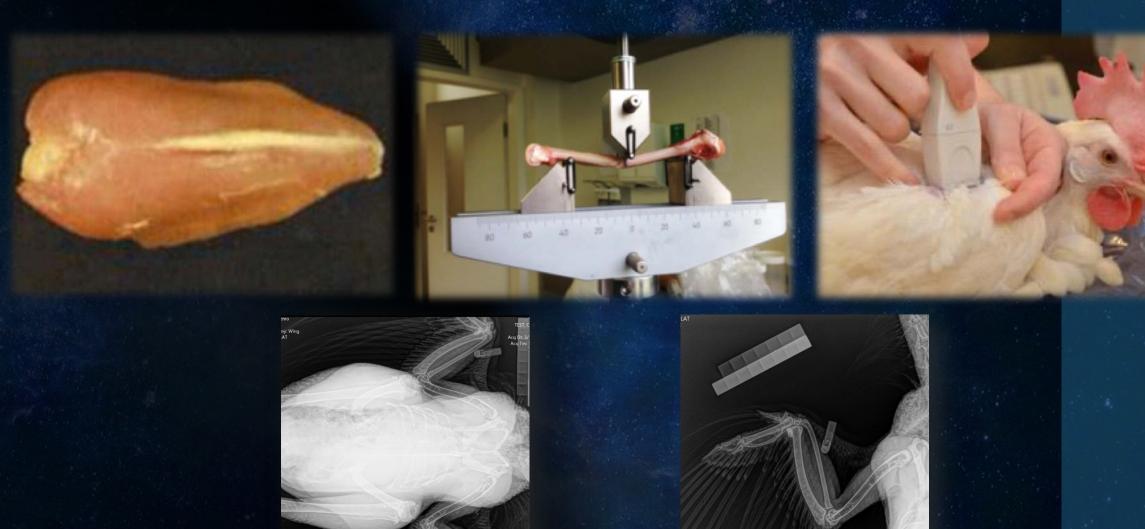


Feed
Intake
Capacity



Improve Bone Stability

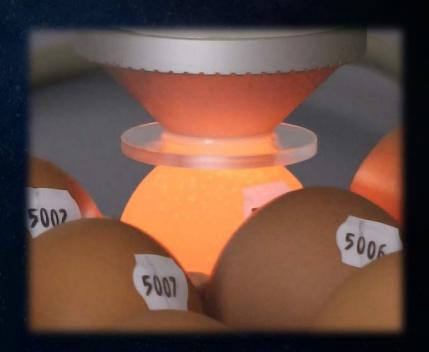






Selection for good eggshell colour

An attractive and uniform brown/cream/white shell colour Good shell colour until the end of production





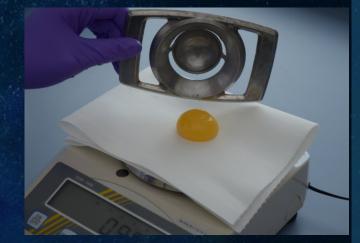












H.U.: maintain the aesthetic appearance of a fresh egg

Blood & meat spots: decrease number & size

Yolk %: increase the % solids





Selection for low mortality, calmness & good feather cover







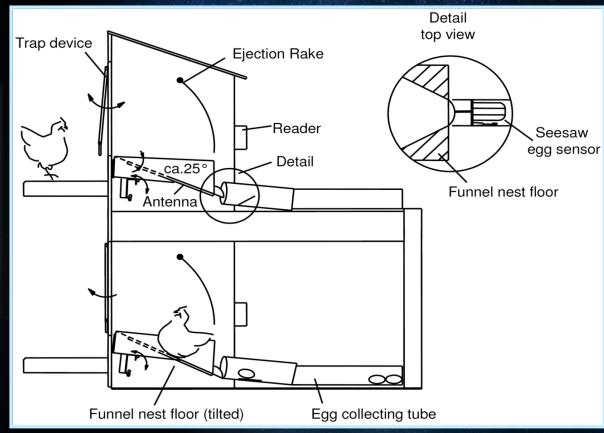
Automatic Trap Nesting

INTERNATIONAL

Increase of Saleable Nest Eggs



No more!





Transponder

























INTERNATIONAL

Birds tested in several continents



Performance Testing:

- ✓ Egg Production
- ✓ Egg Quality
- Livability
- ✓ Plumage Condition
- √ Feather Pecking





Use of Challenge Feed

Diluted feed - Lower E, Vit., CP, aa

Breeding Farm: separate silos for group cages

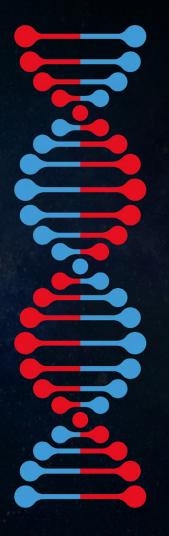
Field Test: Use of two different feeds



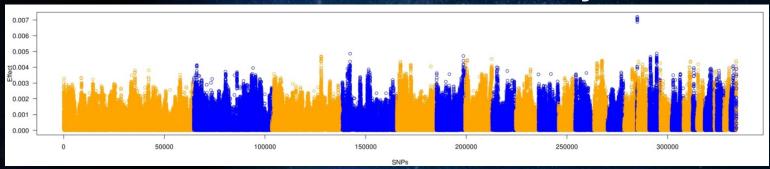








Effects for all markers simultaneously estimated

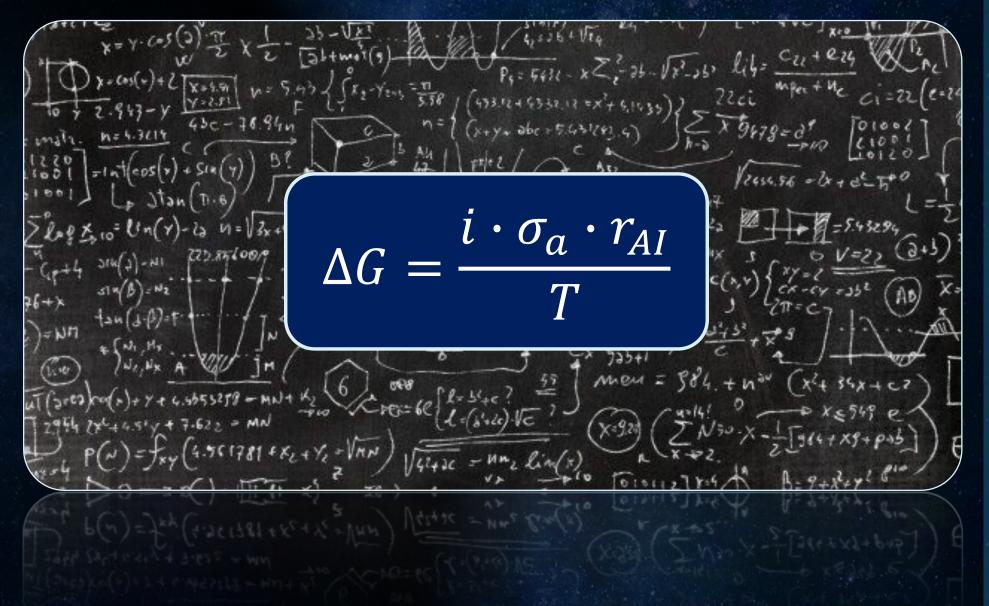


- MD 50k SNP-Array
- By-product: Pedigree check
- Better use of genetic variation

More Genetic Progress!























- Automatic data collection
- Transform data to information:
 - Tracking the animal
 - Activity
 - Behaviour
 - ✓ Fitness





Sustainability of the Egg Industry



More Production





Better Liveability

Higher Efficiency





Greater Adaptability





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