

A stylized blue silhouette of a pig, shown in profile facing right. The pig is composed of various shades of blue, with a darker blue for the head and neck, and lighter blues for the body and legs. The background behind the pig consists of vertical grey bars of varying heights, suggesting a fence or a stylized landscape.

VIV ASIA 2017

MARCH 15 - 17, BANGKOK, THAILAND

INTERNATIONAL PLATFORM
FROM FEED TO FOOD

Genetics; A Key success factor for successful swine production

VIV Master Class Vietnam

Mr. Abe Huisman, Director R&D, Hypor



A Hendrix Genetics Company

WWW.VIV.NET

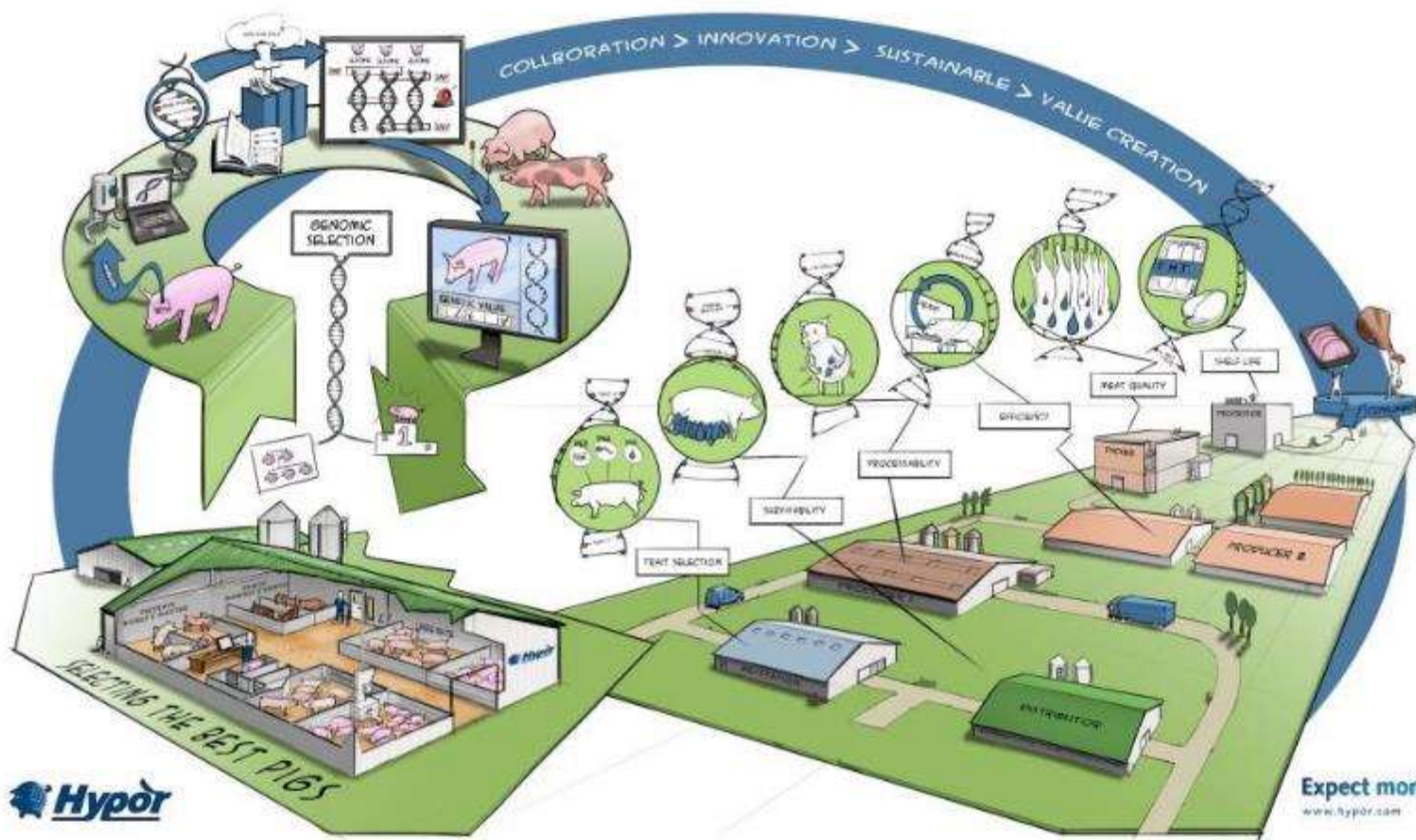


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Hypor

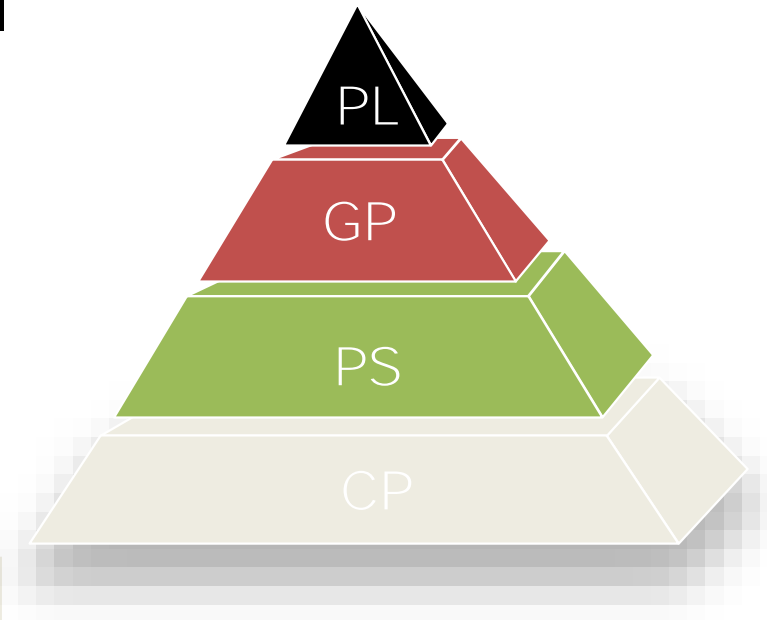
Expect more
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Multiplication Factors



			
Pure line ♀	1	1	1
Grand Parent	80	40	15
Parent stock	6.400	1600	263
Commercial products	550.000	128.000	18.375
Output	180.000.000 eggs	1.750.000 kg. turkey	1.727.250 kg. pork



Based on lifetime production



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Genetics Hold The Key



- Increasing offspring and output per animal
- Minimizing losses due to disease or environment
- Maximizing energy utilization in production
- Minimizing impact on environment
- Producing animals in a socially responsible way
- Adding value to food produced



Developments in breeding goal



Phenotyping remains key:

- Advanced/detailed novel phenotypes
- Towards focus at market level (Parent Stock/Final Product)

– Tendencies:

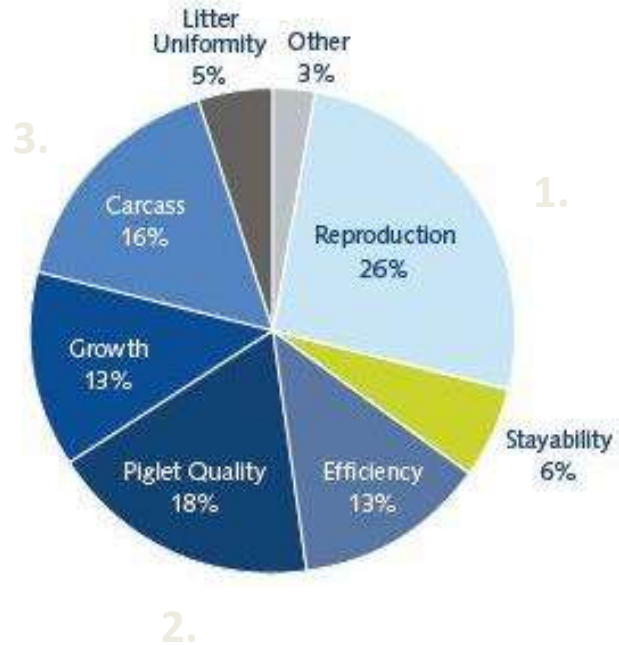
- Focus on both optimizing total chain and parts of the chain
- From single trait technical focus to full chain 'Meat per feed'
- Attention for sustainability: Balanced breeding program, new trends in welfare regulations, antibiotics free, ecological footprint



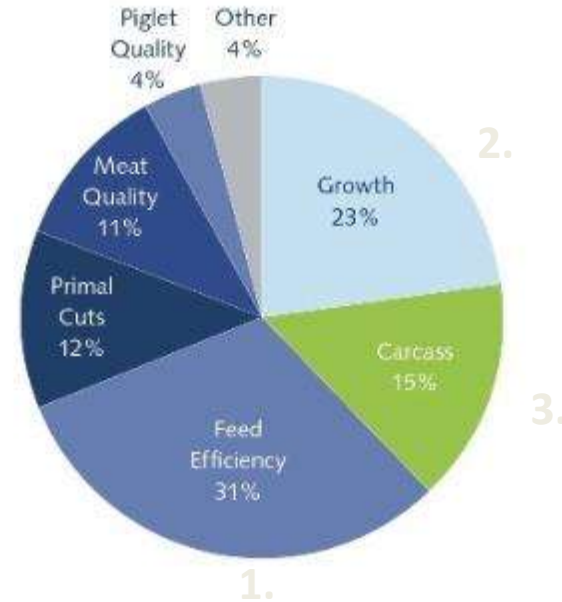
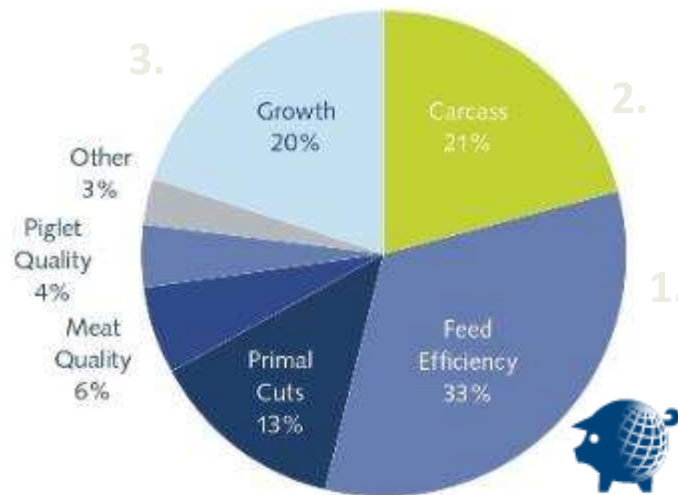
Hypor Magnus Line Selection Index



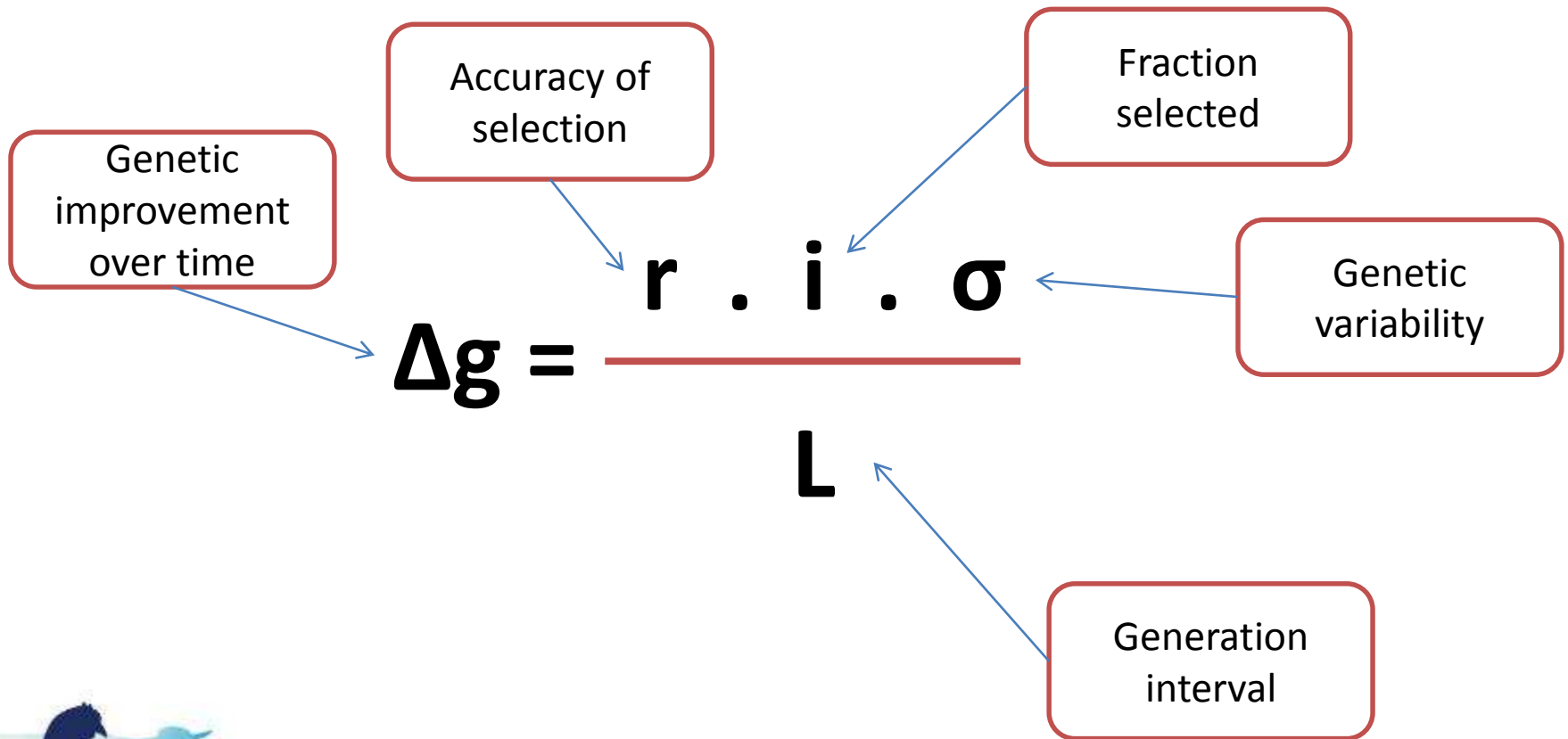
Hypor Dam Line Selection Index



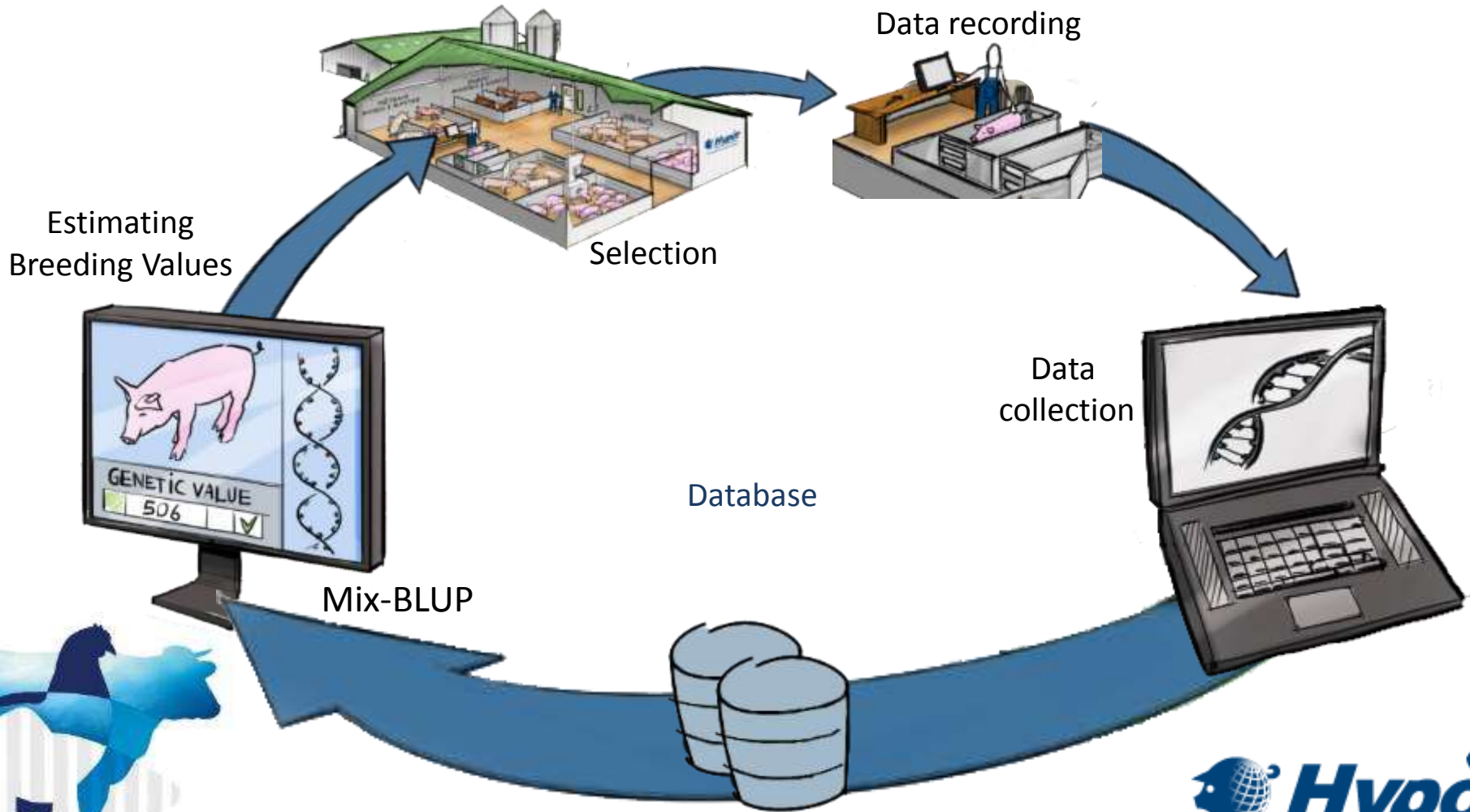
Hypor Maxter Line Selection Index



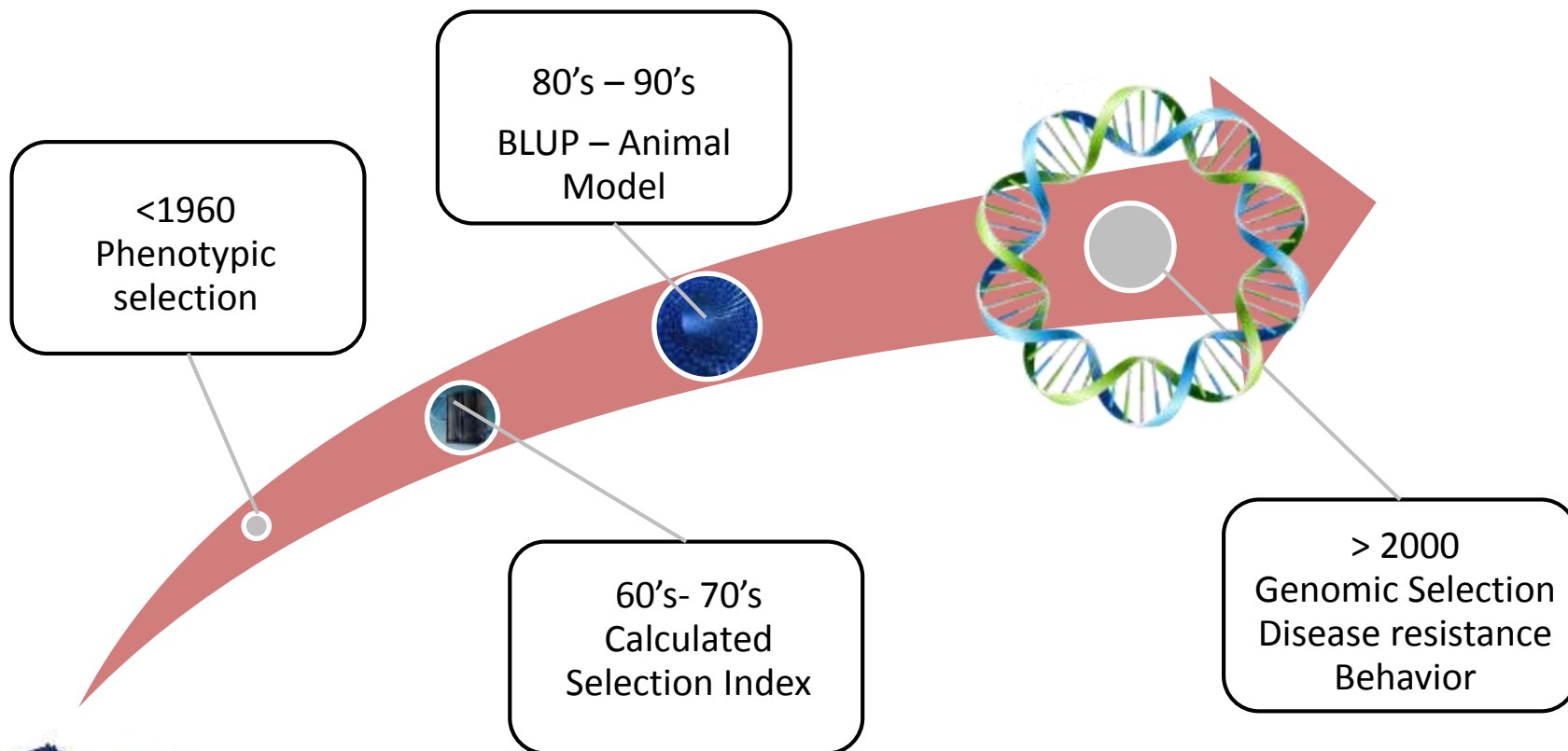
The Basics



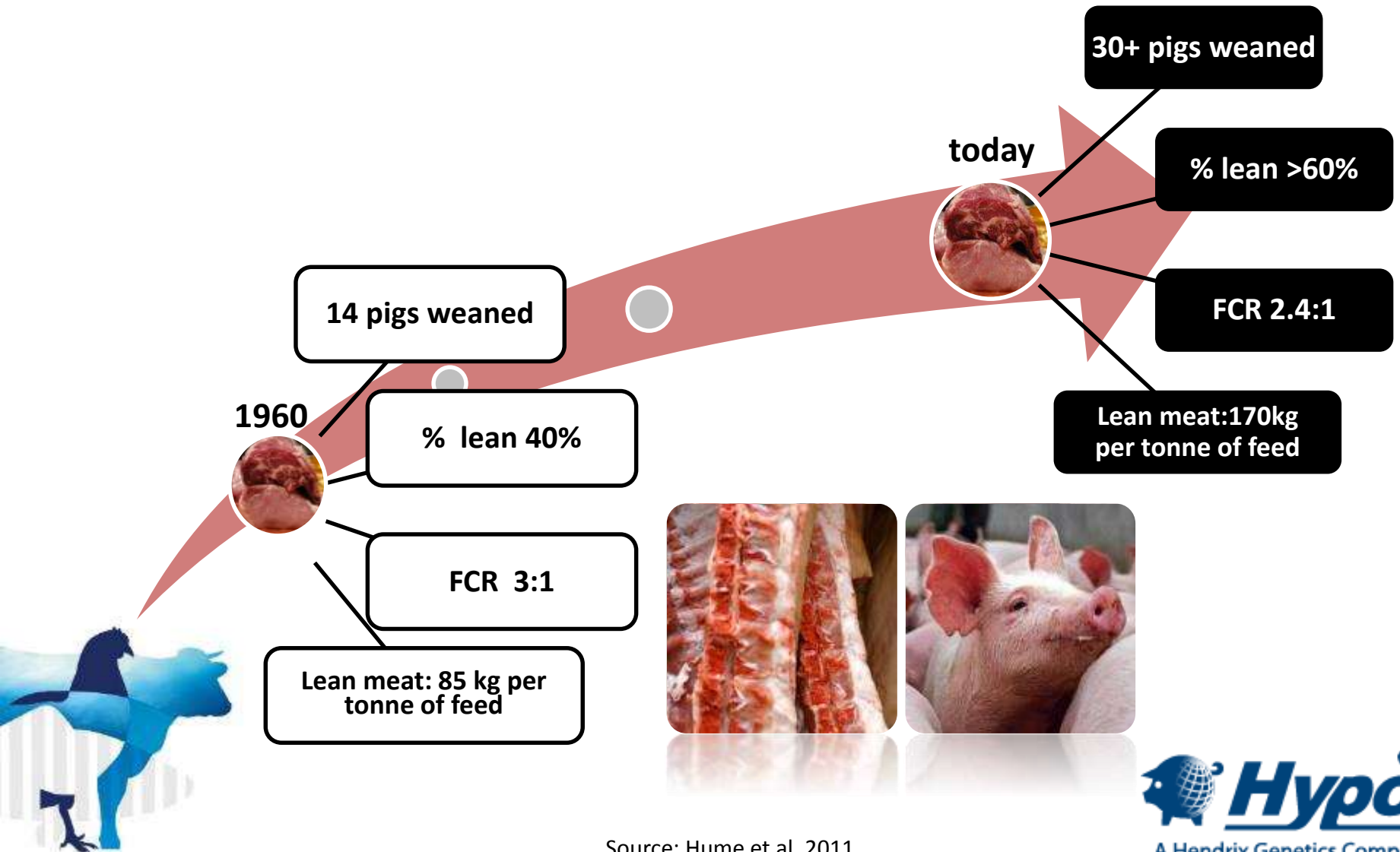
Breeding Value Estimation



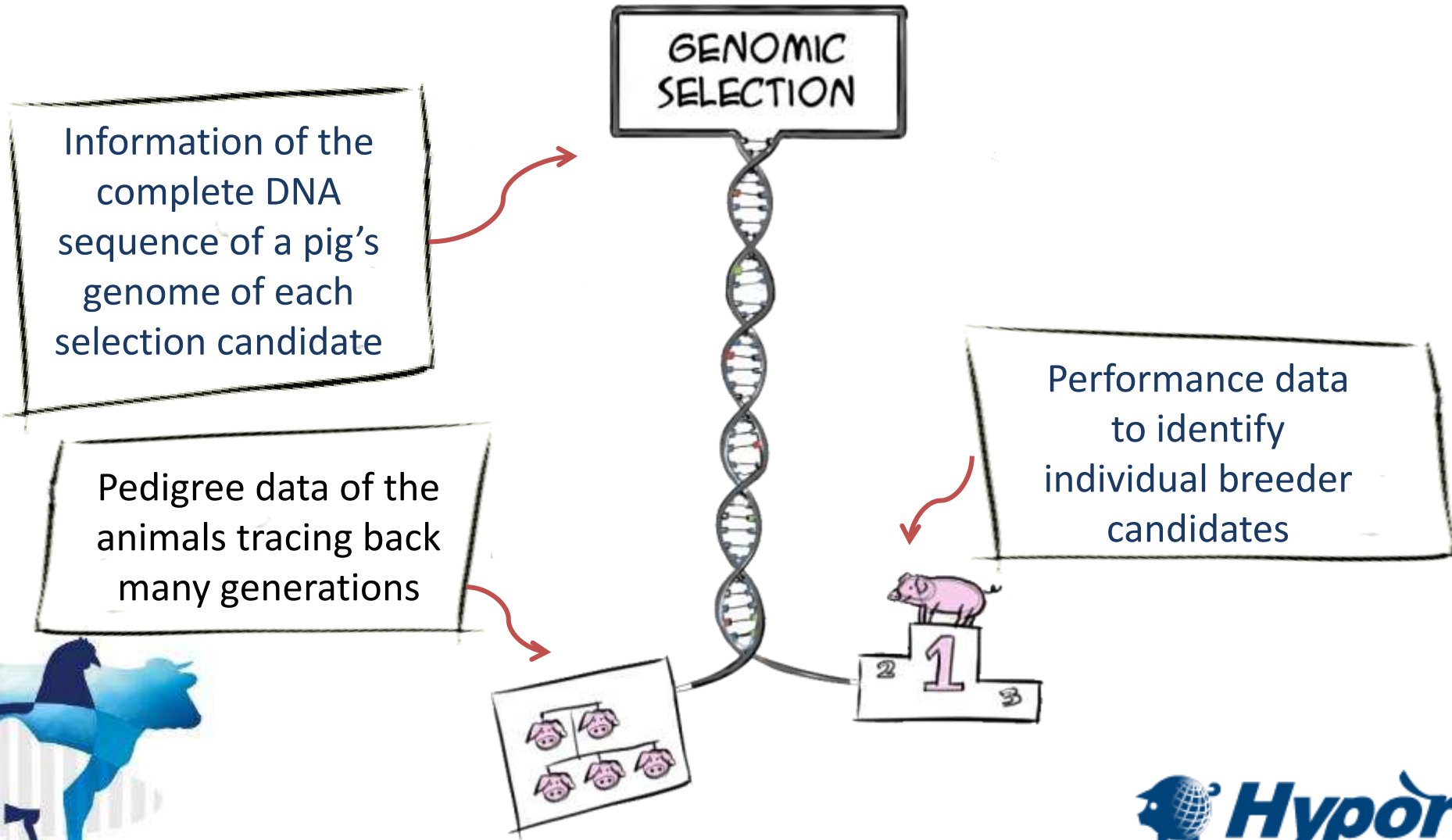
Revolution in Genetics



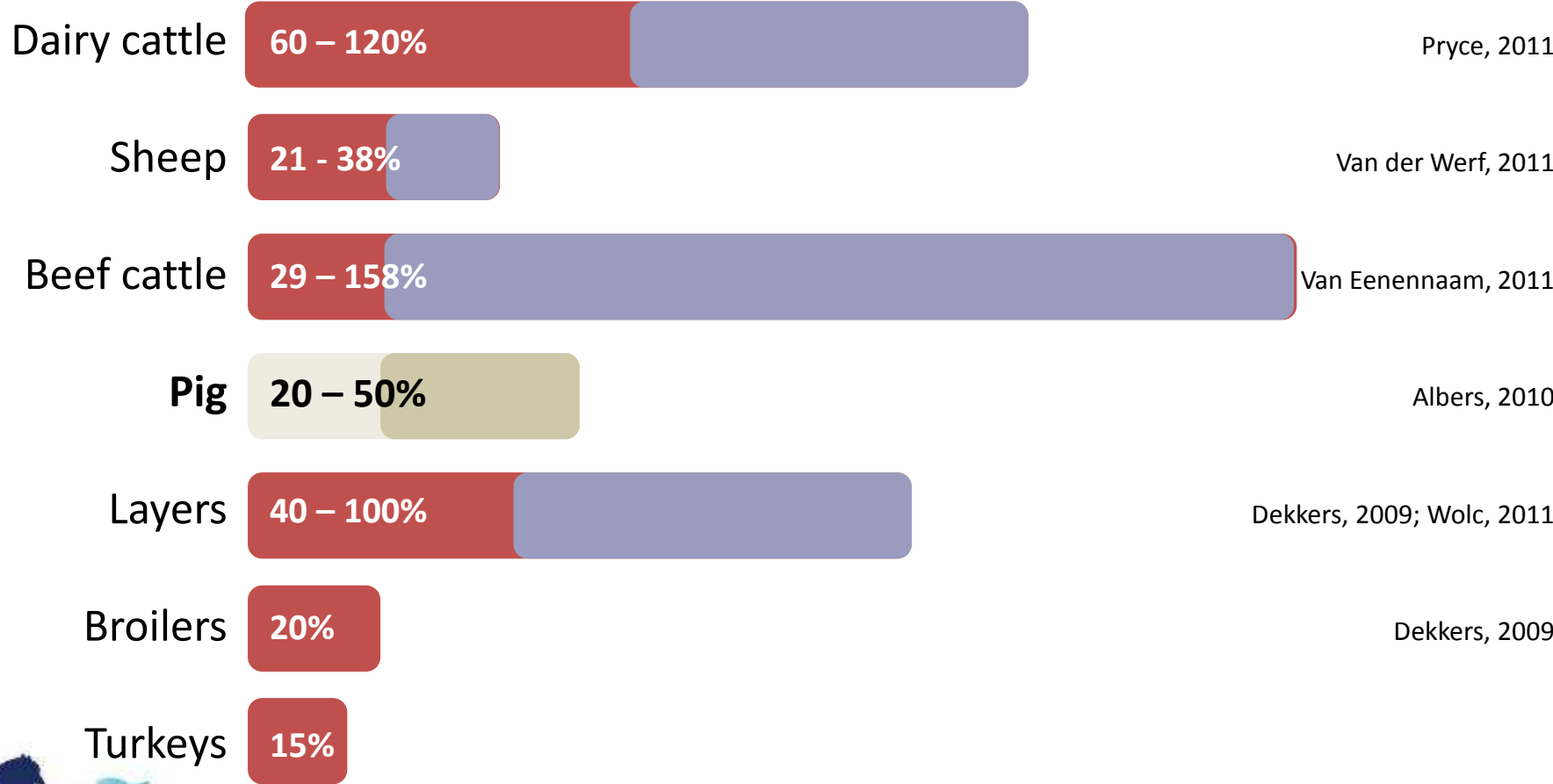
Genetic Progress in Pigs

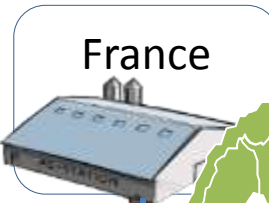
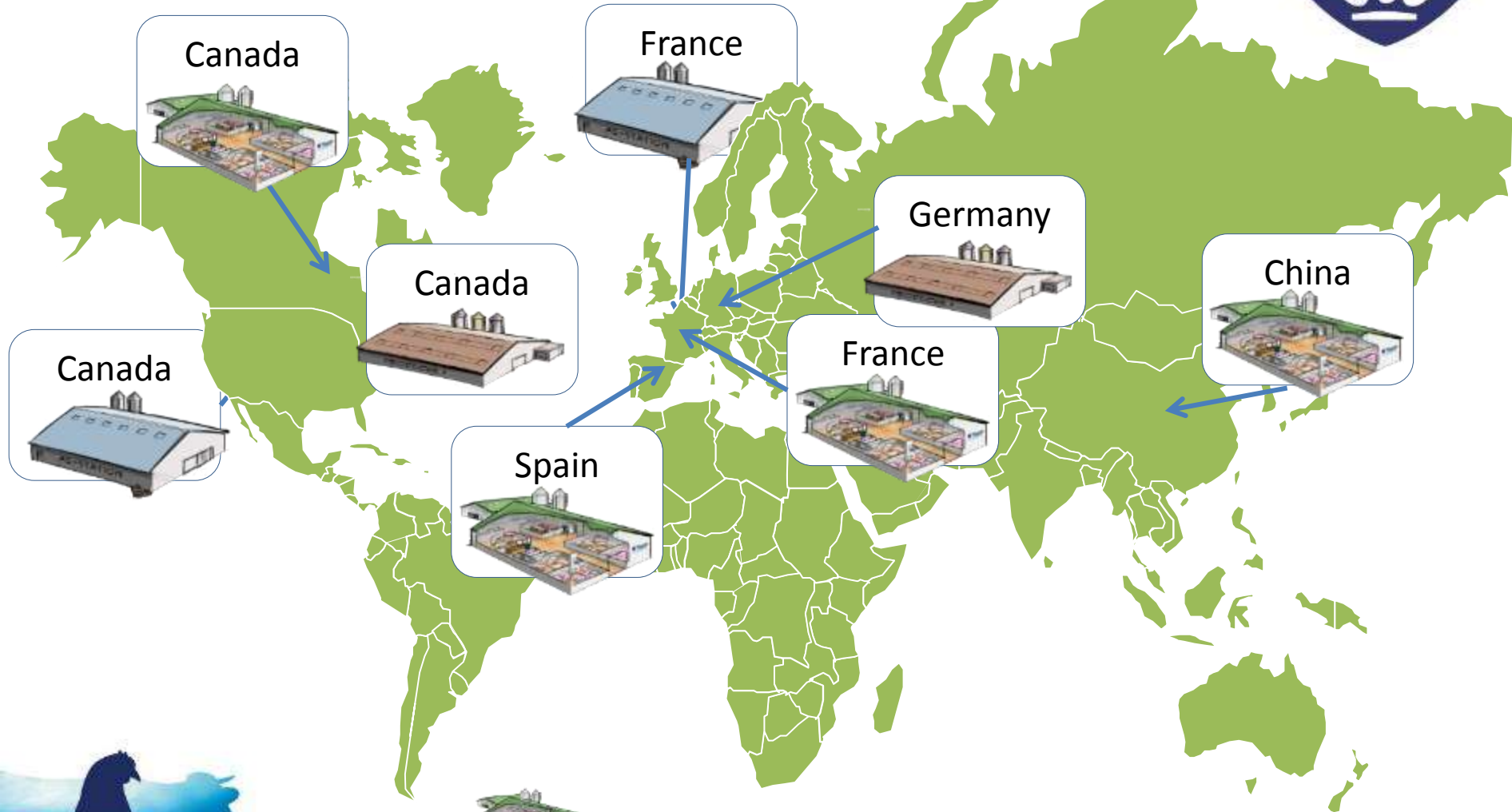





Genomic Breeding based on:



Predicted additional genetic progress





-  **Nucleus**
-  **AI**
-  **CCPS**

Individual piglet weights



Identification



Individual birth weights



Individual 14 day weights



Developments in measurement techniques carcass and feed efficiency



Approx. 100.000 animals ultrasound tested every year



Approx. 10.000 animals with individual feed tested records every year



Approx. 15.000 carcasses evaluated annually through Autofom



Technical Results Hypor Libra

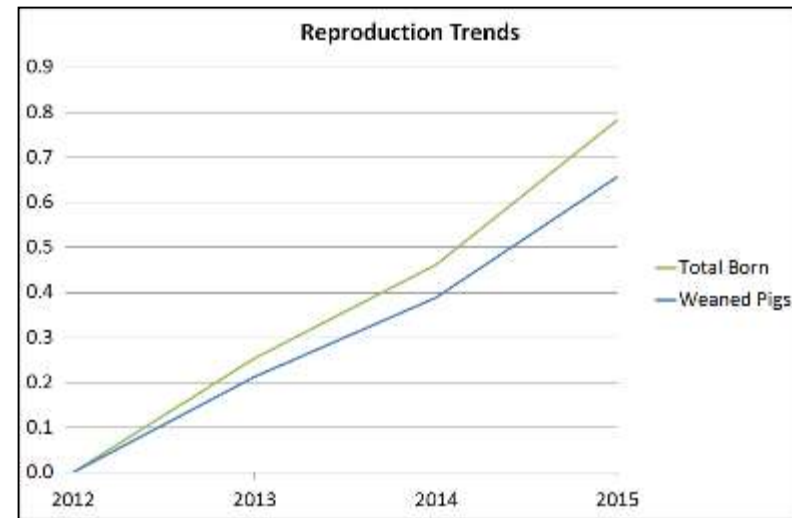
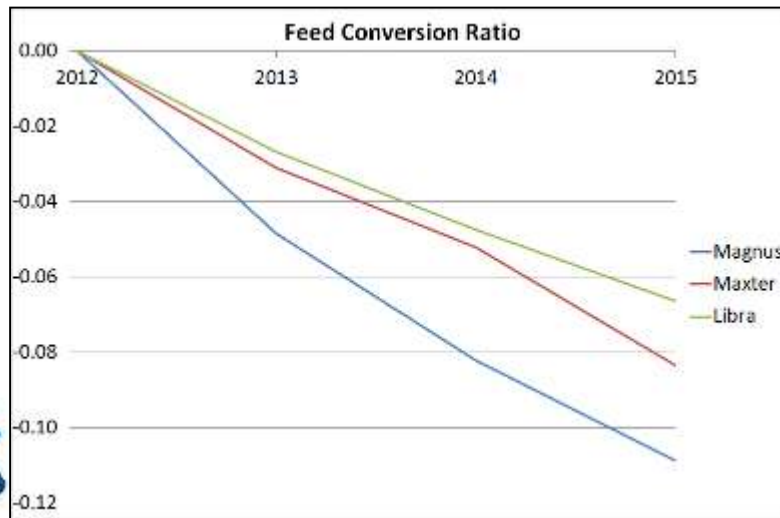
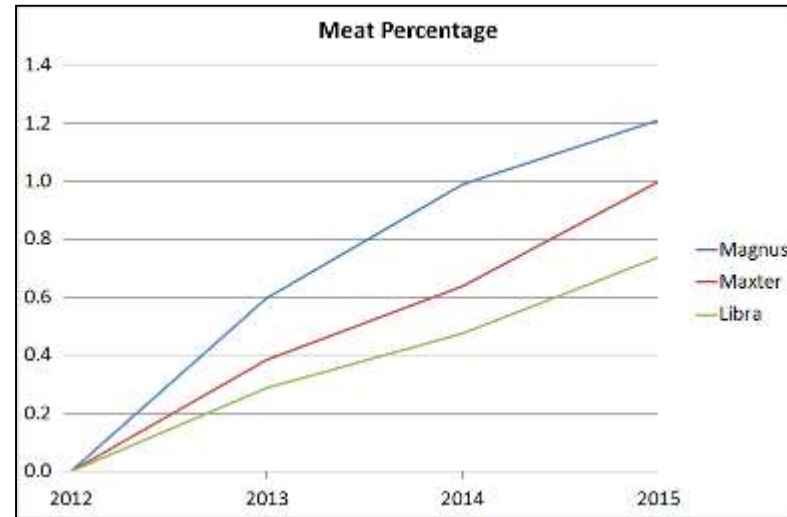
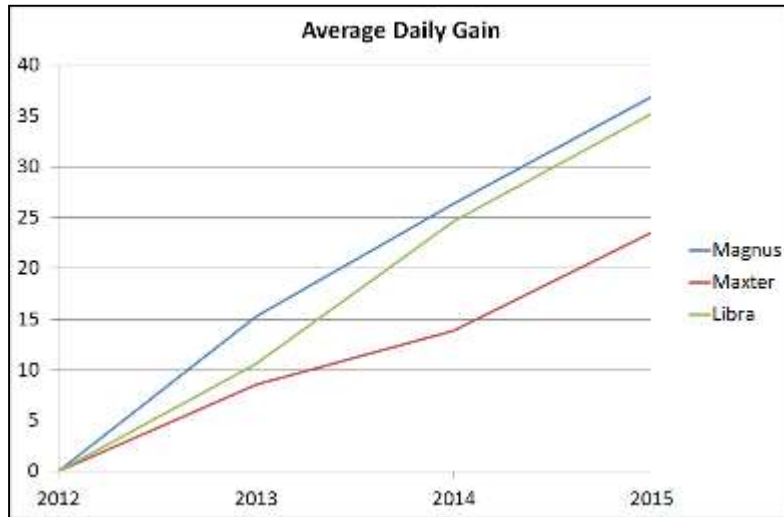


North West Europe

	Top 20%	
	2010	2014
Live born/litter	13.3	14.4
Weaned per litter	12.0	12.7
Weaned/present sow/year	30.1	31.9



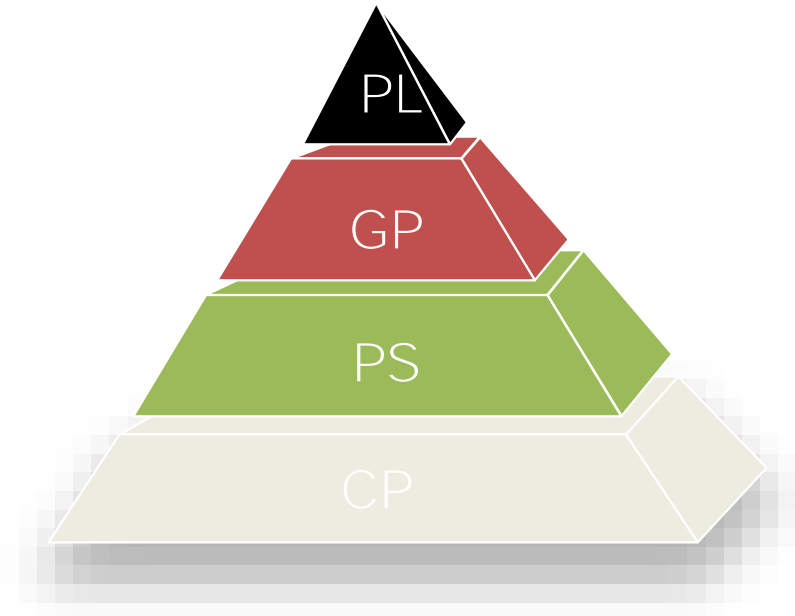
Genetic trends



YES, Genetics is a Key success factor!!



	10 YEARS AGO	TODAY
Pure line ♀	1	1
Grand Parent	14	15
Parent stock	224	263
Commercial products	14,112	18,375
Output	1,199,520 kg pork	1,727,250 kg pork



Based on lifetime production

- \$3 per pig/year or \$ 0.033/kg pork
- An annual cost saving of at least \$ 90.000 on a 1200 sow unit
- A **Return on Investment of 33%** assuming an investment in genetics of \$ 1,-/pig or \$ 30.000 on the 1200 sow system. **NOT MANY INVESTMENTS HAVE THIS KIND OF RETURN!!!**





Thank you

