

PRELIMINARY RESULTS

YEAR ENDED 30 JUNE 2023

SOLID PERFORMANCE AND GOOD STRATEGIC PROGRESS

DISCLAIMER

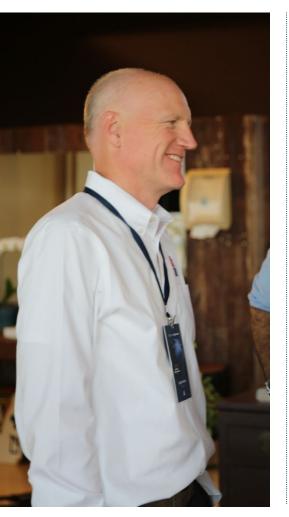
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NEW CEO: JORGEN KOKKE



INTRODUCTION

30

Years experience in the food and agriculture industries

14

Years with Ingredion Incorporated (INGR: NYSE), most recently as Executive Vice President & President, Americas

Global

Strategy and business leadership roles for MNCs across 4 continents. Led \$6 billion business delivering strong top and bottomline growth

WHY GENUS



The Genus vision of 'Pioneering animal genetic improvement to help nourish the world'



Technology platform for growth enabled by investments made in innovation and supply chain

FIRST IMPRESSIONS



Special company with very professional and passionate people driven to create value for customers in a sustainable way



Growth vectors: Exciting R&D pipeline (PRRSv), continued growth in porcine, drive value from bovine and further leverage our R&D platform

BUSINESS & STRATEGIC UPDATE

STEPHEN WILSON RETIRING CEO



FY23 HEADLINES



FINANCIAL PERFORMANCE¹

REVENUE

£689.7m

(+16%)

ADJ. PROFIT BEFORE TAX

£71.5m

ADJ. OPERATING PROFIT

£85.8m

(+10%)

FULL YEAR DIVIDEND MAINTAINED

32p

SOLID PERFORMANCE AND GOOD STRATEGIC PROGRESS

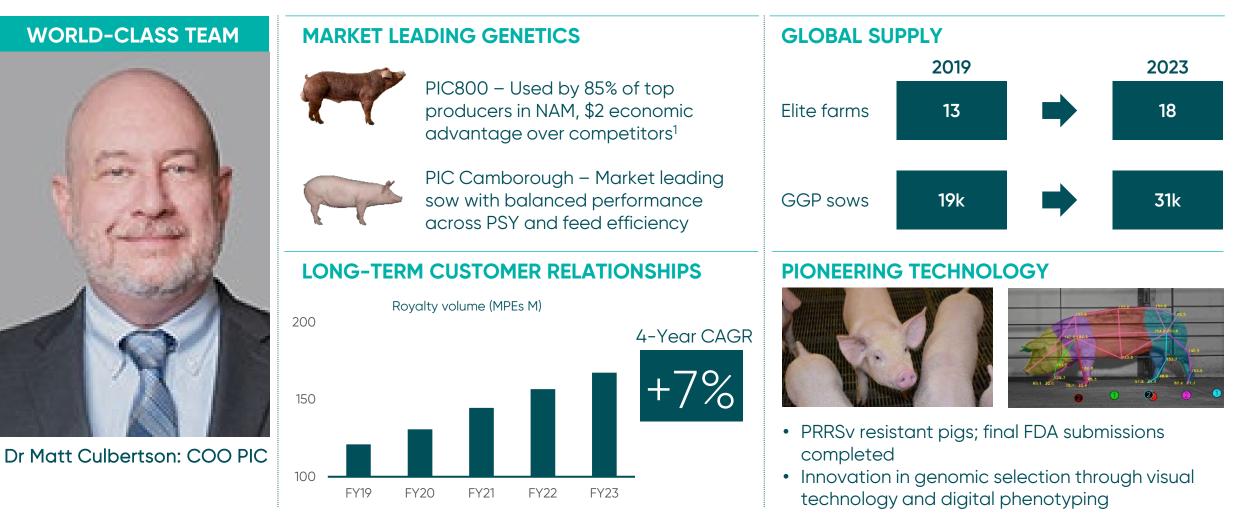
- Growing share in challenging markets through leading genetics, global supply and talented people
- PRRSv submissions completed ahead of schedule
- Investments made position business for growth
- Strong progress on sustainability

MARKET CONTEXT CHALLENGING ENVIRONMENT FOR ANIMAL PROTEIN PRODUCERS

	FEB 2023	CURRENT	En la	FEB 2023	CURRENT	
NORTH AMERICA		•	Low producer profitability, driving herd size reduction; soft domestic demand. Exports remain strong			Declining milk price outpacing input cost decrease, high interest rates limiting capex. Beef herd contracted to 50 year low due to drought, beef prices climbing to new records
LATIN AMERICA		+	Brazil, producers now profitable due to lower input costs, exports strengthening. Mexico, producers profitable on higher prices and lower input cost	•		Reduced domestic beef demand only partially offset by stronger exports. Increased milk production, lower domestic demand
EMEA	•		Higher prices due to fast declining herd size and lower input costs support improved producer margins. Tight supply resulting in lower consumption and lower exports to Asia		-	Weak consumer demand driving lower milk price, labour shortages a concern for future growth. Beef prices declining on higher slaughter volumes
CHINA / ASIA	•		Weak demand and ample supply kept prices low. Mild price recovery expected in Q3; top producers moving back above break-even level		0	Weak demand, high inventory and lower milk price in China challenging producers. Higher costs and disease hampering growth in India

MARKET CONDITIONS: Challenging Stable Positive

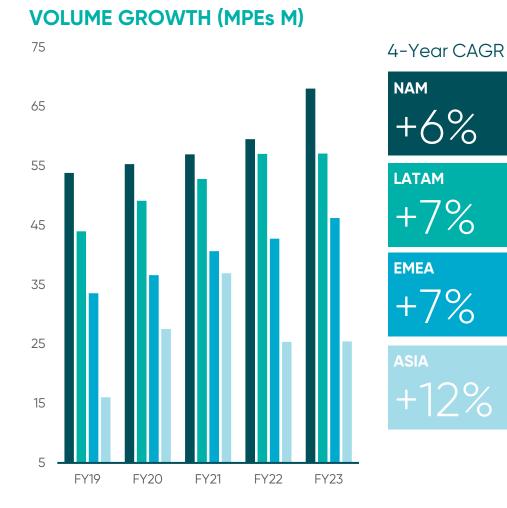
PIC: STRONG STRATEGIC PLATFORM FOR GROWTH



(1) Based on trials against 5 competitor Durocs in North America

Entr

CONSISTENTLY GAINING SHARE



CASE STUDY 2: GROV

CRANSW

Great British Taste

CASE STUDY 1: GROWING WITH A KEY ACCOUNT

- Brenneman Pork are a 50k sow producer on royalty model; PIC's influence in the herd increased by 16k sows in FY23
- 1.7k boar gene transfer center. In FY23 PIC increased its share of wallet by 30% to 90%+
- PIC and customer collaborating on an on-site research project to drive continued KPI improvement

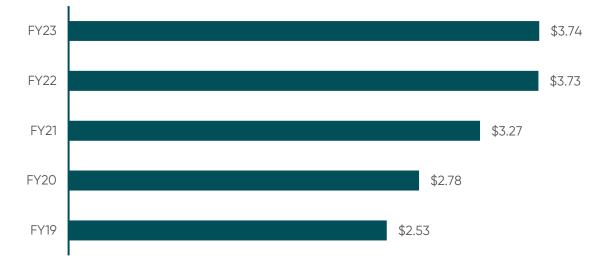
CASE STUDY 2: GROWING WITH A LARGE NEW CUSTOMER

- Major UK integrated producer; ~70k sows
- Built a 1.1k GGP nucleus farm; stocked with PIC maternal lines in FY23 to disseminate PIC genetics through their system on a royalty basis
- Drawn to PIC's established market position and leading genetics portfolio
- Good prospects for continued growth as PIC
 maternal genetics roll through their system



MARKET LEADING GENETICS

STRONG GENETIC IMPROVEMENT EVERY YEAR



PORCINE GENETIC IMPROVEMENT PER ANNUM (US\$)¹

- Strong annual improvement in economic value of PIC genetics every year. Cumulative gain of ~\$11 over 3 years
- Genetic improvement drives reduction of 6.5 kg of $\rm CO_{2e}/\rm MPE$ over the last 3 years

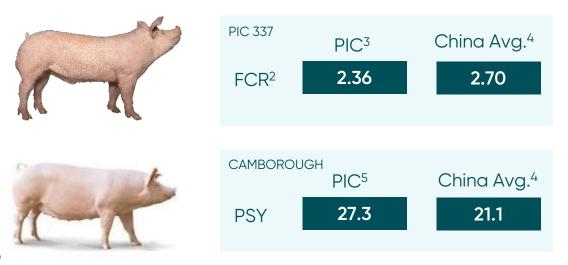
The index measures the marginal improvement in customers' US\$ profitability, per commercial pig per year, on a rolling three-year average Feed conversion ratio

-) PIC 337 commercial pigs growth trial
- (4) PIC China analysis

PIC customer data from 49 farms and over 400k reproduction events

DRIVING GENETIC PROGRESS IN CHINA

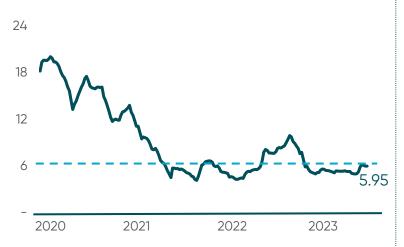
- PIC investing in China based genetic improvement program:
 - Established a China genetic index; creating value for entire pork value chain
 - Leveraging investment in 3 elite farms to generate local genetic gain
 - Ongoing trial with large China pork processor; validating economic advantage of PIC genetics on carcass value versus competitors





CHINA: BUILDING A PREDICTABLE BUSINESS

PIG PRICE TO CORN PRICE RATIO¹



- Market Recovered to RMB ~17/kg in August 2023
- Top producers profitable at current level, smaller less technified producers remain below break-even
- Expansion of royalty model key to reduce impact of market volatility

CHINA VOLUME (MPEs M) 30 25 Royalty MPEs Non-royalty MPEs





CASE STUDY 1: GROWING WITH LEADING PRODUCER

- 130k sow producer (FY21: 81k sows)
- World-class production standards; comparable to NAM
- 95% share across the female and male line
- Customer developing new farms; supporting PIC growth

CASE STUDY 2: NEW BUSINESS WITH SOE

- Won 60k sow SOE³ account connected to high value Hong Kong market, discussions began in FY22
- Share of wallet currently 80%; initially upfront sales, transitioning to royalty revenue over time
- Technical services supporting customer growth

) Market analysts and policymakers in China often view 6:1 as a "normal" level for the pig price to corn price ratio. Higher values are considered an indicator of profitability 2) Genus analysis 3) Sate owned enterprise

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PRRSV RESISTANCE PROGRAMME ADVANCING GLOBAL REGULATORY APPROVAL

SUBMISSIONS COMPLETED; AWAITIN	OTHER MARKETS		
2021			
Phase I - Product Claim and Methods			
1. Product Definition	Submitted and accepted	 Submitted regulatory approval packages in Brazil 	
2. Molecular Characterisation of Altered DNA	Submitted and accepted	and Columbia ²	
2022			
Phase II - Molecular Characterisation	Commenced engagement with regulator,		
3. Molecular Characterisation of Edited Animals	Submitted and accepted	progress linked to FDA approval and LATAM peer	
2023			
Phase III - Animal Characterisation		 Regulatory submissions in Canada and Japan; 2023 	
4. Phenotypic Characterisation	Submitted		
5. Phenotypic Durability	Submitted	 Regulatory environment developing; regulations o 	
6. Genotypic Durability	Submitted	gene-edited animals published	
	Submitted	 Obtained approval for import of PRRSv resistant 	

Anticipated FDA approval

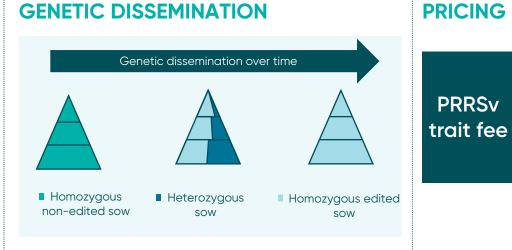
- United States Food & Drug Administration
 In Columbia the process starts with regulatory determination
- Note: Timeline represents calendar years
- Note: PRRSv relates to Porcine Reproductive and Respiratory Syndrome virus

PRRSv: PREPARING TO GO-TO-MARKET

MARKET ACCEPTANCE STRATEGY



- Engaging entire pork value chain on market acceptance
- Strategy focussed on People, Pig, Planet and Profit
- Demonstrates impact of PRRSv resistant pigs on global pork value chain
- Highlights key benefits. Animal welfare, economic and sustainability improvement; lower emissions and water/land use



- PRRSv immunity is achieved when an animal is homozygous with the edited gene
- Attaining a largely homozygous customer herd takes time; however, producers start to realise value earlier in the process

 Mechanism to gradually increase PRRSv trait fee as dissemination progresses

Usage

model

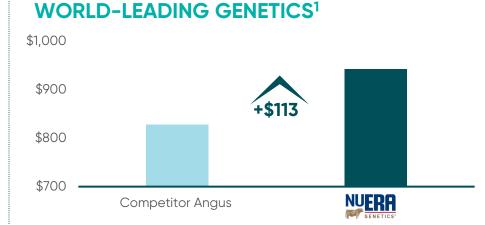
 Additional fee per pig to access the PRRSv trait

Incremental above

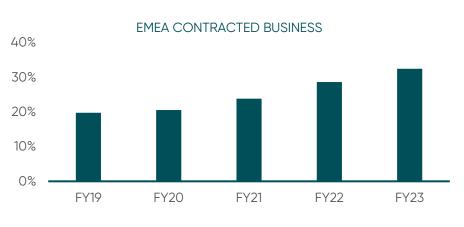
existing royalty fees

ABS: STRONG STRATEGIC PLATFORM การใ FOR GROWTH





LONG-TERM CUSTOMER RELATIONSHIPS



GLOBAL SUPPLY





PIONEERING TECHNOLOGY



Profit is defined as total value minus total expense. Considering the total value created and expenses incurred during the trial, the Beef InFocus cattle increased returns by \$113 per head over the Angus-sired cattle when compared head-to-head. 150 total head of cattle in the trial, 90 competitor animals and 60 NuEra animals

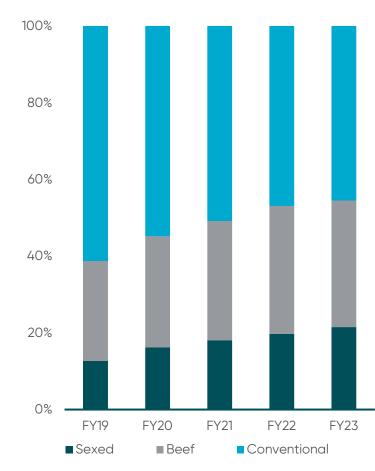
Excludes facilities that have been decommissioned. Facilities age range moved from 1-55 years in 2019 to 1-9 years in 2023

(3) Sexed volume consists of Sexcel and IntelliGen 3rd party units (4)

Includes IntelliGen 3rd party processing sites

GAINING SHARE BY DRIVING CUSTOMER PERFORMANCE

ABS: GLOBAL SALES VOLUME



CASE STUDY 1: SUPERIOR GENETICS AND SERVICE DRIVING CUSTOMER WIN



- Large US dairy, 10k dairy cows
- Customer was experiencing poor reproduction outcomes
- Won 100% share of wallet from major global competitor
- ABS supplying sexed, beef on dairy and reproductive service; customer's pregnancy rate improved 8% over 2 years

CASE STUDY 2: GENEADVANCE ENABLING CUSTOMER SUCCESS



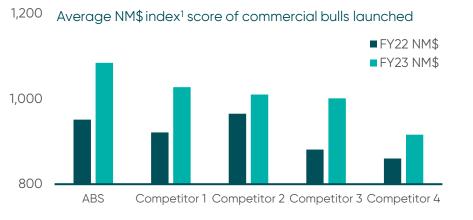
- Large Italian dairy, 1k dairy cows
- Won 100% share of wallet and introduced to GeneAdvance in 2020. Customer sought strong KPI improvement.
- ABS has delivered significant progress, through effective technical and genetic support
 - Number of cows: +620
 - Pregnancy rate: +16%



GENETIC PROGRESS DRIVING SUSTAINABILITY

DAIRY

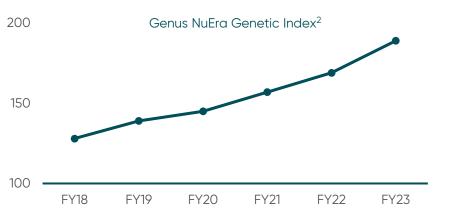


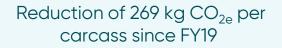


Reduction of 665 kg CO_{2e} per cow sired by ABS bulls since FY19

BEEF

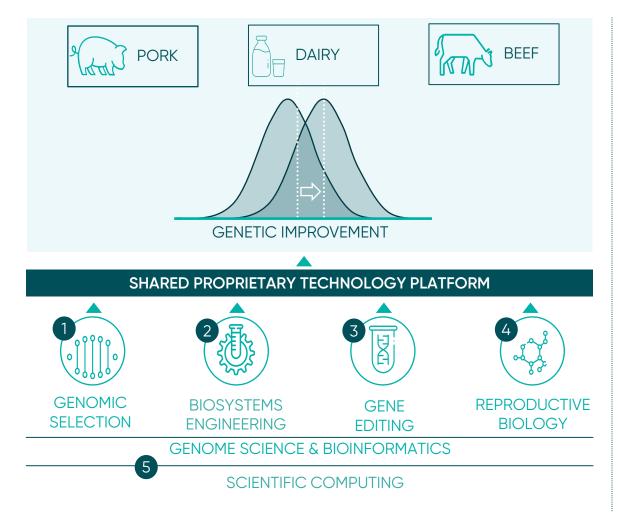






(1) The NM\$ index is an independent industry measure which considers multiple factors related to the efficiency of milk production and sustainability
 (2) NuEra genetic index for Genus proprietary T14 line

STRONG R&D PLATFORM FOR GROWTH



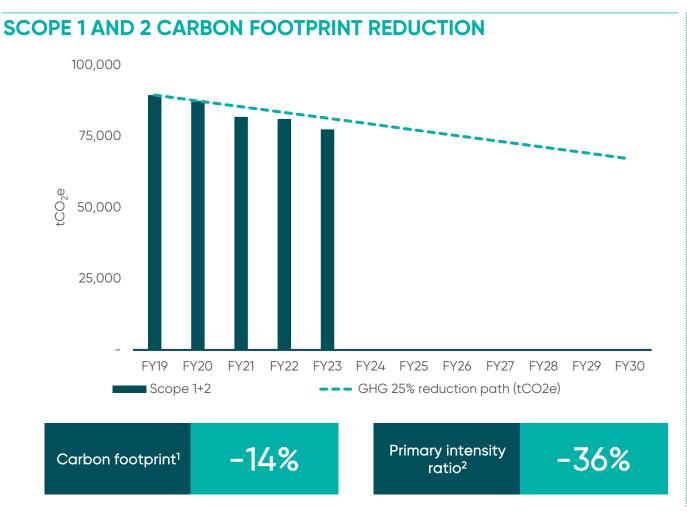
KEY ACTIVITIES AND OUTCOMES

- 1
 - Better breeding outcomes through enhanced analysis of individual animal genomes, phenotypes, reproduction outcomes, and farm management data
- 2
- Increased sexed semen quality and production efficiency through hardware and software upgrades and integration of real-time advanced data analytics
- 3 Br
 - Bringing PRRSv resistant pigs to market and exploring other porcine diseases
- 4
- Enhancing embryo quality and viability. Exploring how ESCs¹ could enhance genetic gain and accelerate trait dissemination



Enhancing genome science and data analytics capabilities and embedding across the business

SUSTAINABILITY PROGRESS AHEAD OF PLAN



CLIMATE SMART BEEF GENETICS PROJECT

PARTNERS

Awarded £3m funding by Innovate UK

Project seeks to select cattle with a microbiome that emits less methane



MEADOW QUALITY



DAIRY PRODUCTIVITY IN EAST AFRICA

PARTNERS

3 year \$10m co-funded by the Gates foundation

ABS working in partnership with Land O'Lakes - Venture37

Accelerating adoption of sexed dairy genetics to improve dairy productivity





BILL& MELINDA GATES foundation



The total amount of greenhouse gases (Scope 1 and 2) that are generated by our operations The primary intensity ratio is a measure of the Group's Scope 1 and 2 emissions per tonne of animal weight

FINANCIAL RESULTS

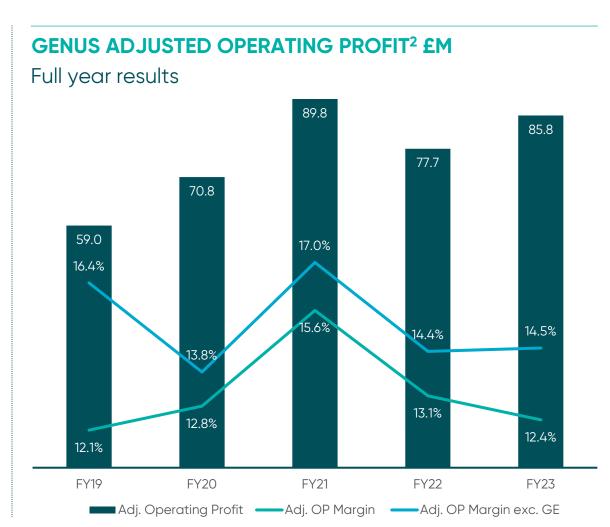
ALISON HENRIKSEN CHIEF FINANCIAL OFFICER



GENUS ADJUSTED PROFIT PERFORMANCE

19

£M	FY23	FY22	% Change actual	% Change constant ¹
Genus PIC	145.3	121.2	20%	11%
Genus ABS	43.6	40.5	8%	5%
Operating units	188.9	161.7	17%	9%
R&D	(86.3)	(67.1)	(29)%	(19)%
Central	(16.8)	(16.9)	1%	1%
Adj. operating profit ²	85.8	77.7	10%	3%
Adj. operating profit ex. gene editing ³	100.1	85.6	17%	9%
Adj. profit before tax	71.5	71.5	0%	(8)%

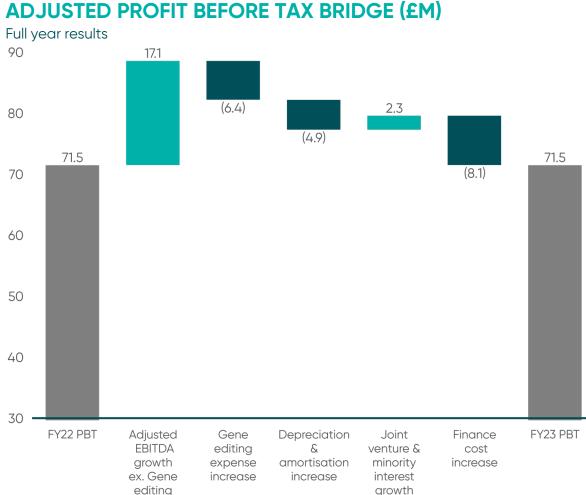


Constant currency percentage movements in this presentation are calculated by restating the results for the year ended 30 June 2023 at the average exchange rates applied to adjusted operating profit for the year ended 30 June 2022 Operating profit and operating margin represents adjusted operating results including joint ventures Gene additing costs relating to PRRSvresistance programme and other gene additing initiatives

(2) (3)

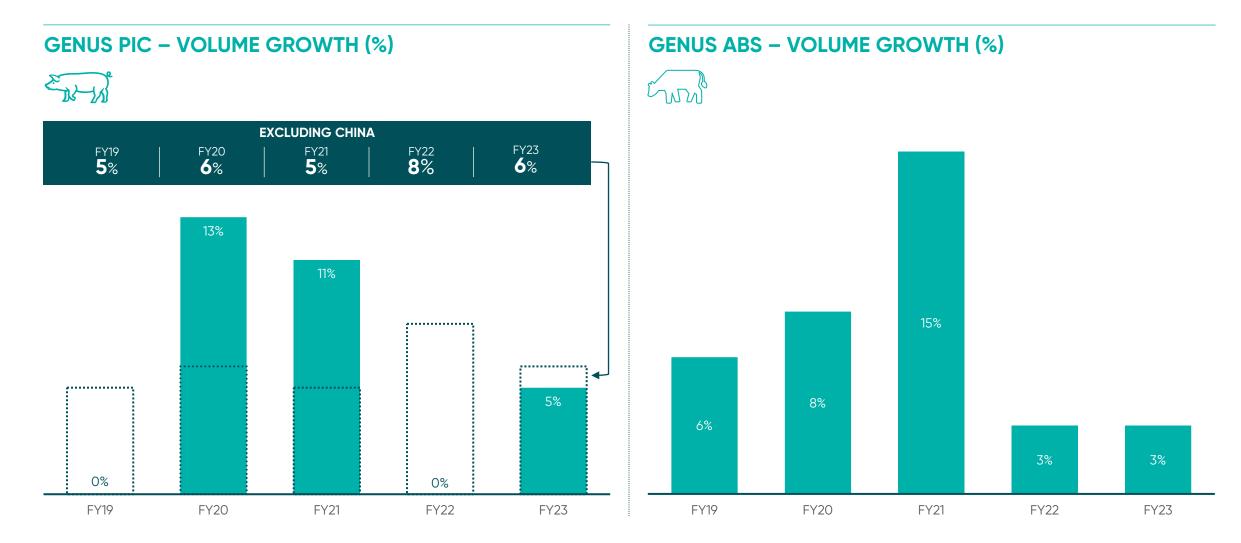
DRIVERS OF PROFIT

ADJ. OPERATING PROFIT¹ EX. GENE EDITING (£M) **PIC CHINA SHOWN SEPARATELY** 90 Full year results 9.4 80 90.7 5.6 33.4 +13% 80.0 70 21.3 64.0 60 54.7 14.2% 13.8% 12.3% 50 10.7% 40 30 FY20 FY21 FY22 FY23 PIC China Adj. Operating Profit Adj. Operating Profit ex. PIC China, ex. Gene Editing Adj. Operating Margin ex. PIC China, ex. Gene Editing



(1) Operating profit and operating margin represents adjusted operating results including joint ventures

VOLUME GROWTH YEAR ENDED 30 JUNE 2023





GENUS PIC





NORTH AMERICA

- +9%
- Royalty revenue growth of 8%
- Further market share gains in damline and sireline
- Olymel's AlphaGene programme contributing growth

LATIN AMERICA



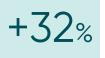
- Royalty revenue growth 12%
- Double digit profit growth across all trading countries
- Agroceres JV in Brazil up 14%

EMEA



- Volume growth 8%, Royalty revenue growth 9%
- Continued growth in Spain, up 10%
 against a very strong comparison

ASIA

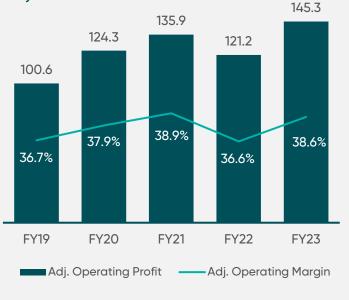


- Strong royalty revenue growth 20%
- Decline in H2 pig prices impacted China. Royalty revenue up 26% as we build a more predicable business
- Continued strong profit growth in Philippines, up a further 12%

ROYALTY REVENUE



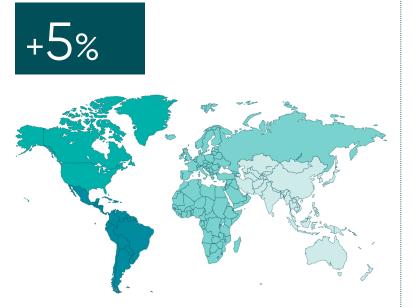
GENUS PIC ADJ. OPERATING PROFIT £M Full year results¹





GENUS ABS





NORTH AMERICA

- +17%
- Strong sexed volume growth 25%
 - Robust price increases
 - Continued success of IntelliGen third party business





- Market share gains in Brazil, in a weak market environment, volume up 3%
- Dairy down 5%, beef stable
- Strong sexed volume growth 14%

EMEA

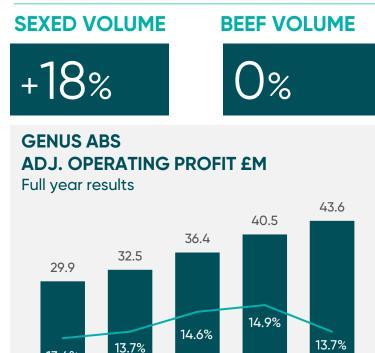


- Total volume up 1%; challenging trading landscape in the region
- Strong growth in sexed volumes 15%
- Robust price increases •
- Continued double-digit growth in IntelliGen third party business

ASIA



- Double digit growth in Australia 44% and India 17% supported by strong sexed volume growth
- Continued success with Government of India contract
- China saw market slowdown in H2

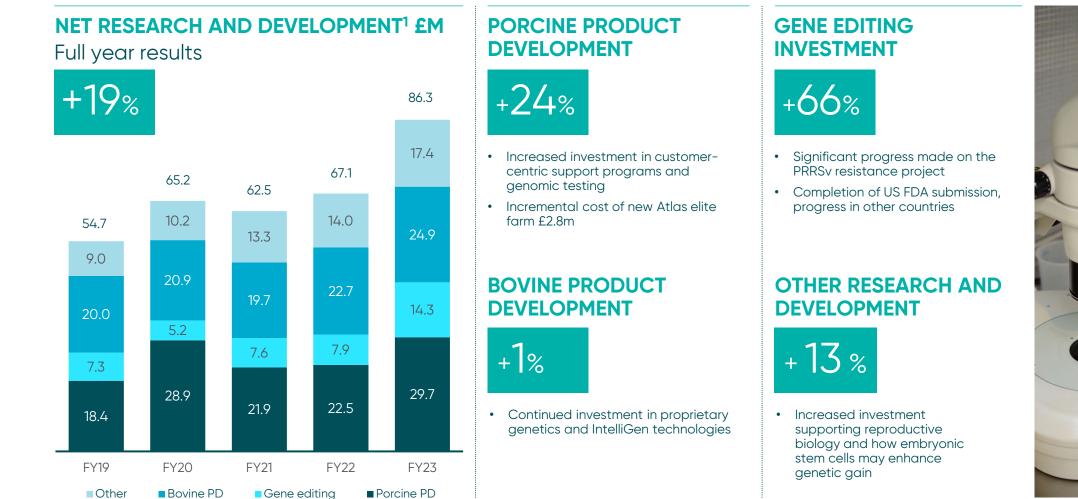




23



GENUS R&D





(1) Less non-controlling Interest Note: All % changes are in constant currency and positive percentages indicate increased investment expense

STATUTORY INCOME

	FY23 £m	FY22 £m	Change £m
Adjusted operating profit	74.6	68.8	5.8
Net IAS 41 valuation movement on bio assets	(16.9)	(5.4)	(11.5)
Amortisation of acquired intangible assets	(7.7)	(8.3)	0.6
Share-based payments	(6.0)	(3.7)	(2.3)
Exceptional items	(3.5)	(2.0)	(1.5)
Operating profit	40.5	49.4	(8.9)
Share of post-tax profit of JVs and associates and other gains and losses	13.2	5.2	8.0
Net finance costs	(14.3)	(6.2)	(8.1)
Profit before tax	39.4	48.4	(9.0)
Taxation	(7.6)	(11.7)	4.1
Profit after tax	31.8	36.7	(4.9)

statutory profit before tax £39.4m (FY22: £48.4m)

Non-cash impacts

- £16.9m current period decrease in net IAS 41 biological assets (FY22: £5.4m decrease)
- Higher share-based expenses of £6.0m (FY22: £3.7m)

Exceptional items

• £5.4m legal expense, £0.9m credit for a part legal settlement that was agreed in the year and a £1.7m credit relating to the sale of our Canadian ABS facilities

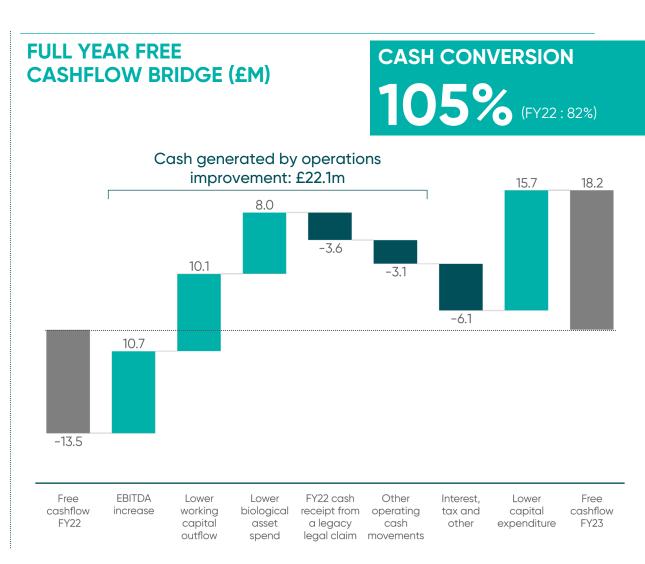
Taxation

- Adjusted tax rate of 22.2% (FY22: 24.3%); down due to deferred tax assets net of UK and foreign tax increases
- Statutory tax rate of 26.6% (FY22: 28.0%)

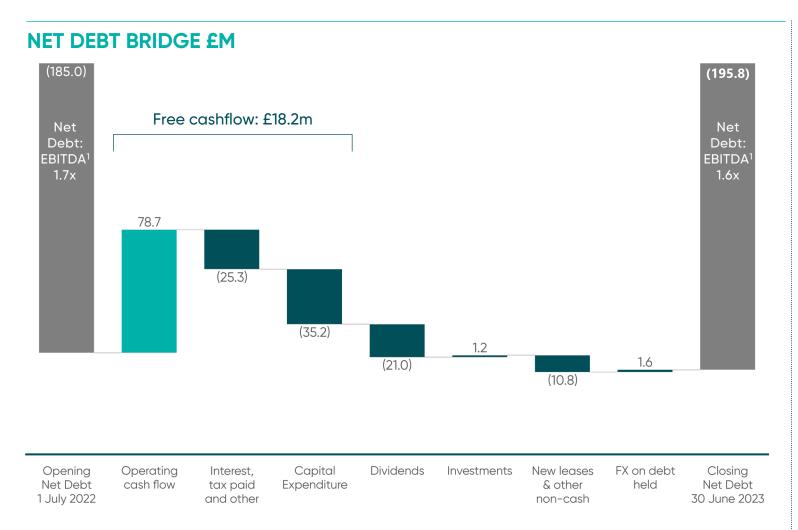
IMPROVED FREE CASH FLOW RECORD ADJUSTED EBITDA

FY23 PERFORMANCE

	FY23	FY22	Change
	£m	£m	£m
Adjusted operating profit ex. JV	74.6	68.8	5.8
Depreciation and amortisation	36.0	31.1	4.9
Adjusted EBITDA	110.6	99.9	10.7
Working capital	(12.3)	(22.4)	10.1
Biological assets	(11.1)	(19.1)	8.0
Pension deficit repair	(0.6)	(3.1)	2.5
Exceptional items and other	(7.9)	1.3	(9.2)
Cash generated by operations	78.7	56.6	22.1
Cash conversion %	105%	82%	23pts
Interest and tax paid	(28.3)	(22.3)	(6.0)
Capital expenditure	(35.2)	(50.9)	15.7
Other	3.0	3.1	(O.1)
Free cash flow	18.2	(13.5)	31.7
Acquisitions and investments	1.2	(19.5)	20.7
Dividends	(21.0)	(20.9)	(O.1)
Shares issued	-	-	-
Net cash flow (before debt repayments)	(1.6)	(53.9)	52.3



SOLID FINANCIAL POSITION



Lower capital investments

- Capital expenditure £35.2m (FY22 : £50.9m), as planned
- Lower working capital outflows, 8 day DSO improvement
- Investments £1.2m inflow; included £3.4m from sale of Caribou shares. (FY22: £19.5m included Olymel AlphaGene assets for £14.5m)

Headroom & facilities

- £118.7m headroom at 30 June 2023
- Net interest cash outflow increased (FY23:£10.5m, FY22:£4.8m), with an average rate during the year of 4.94% (FY22: 2.27%)
- Net Debt: EBITDA 1.6x within target 1.0x-2.0x
- Credit facilities term to August 2025

Full year dividend maintained

- Adjusted earnings coverage² 2.7x – within target 2.5–3.0x

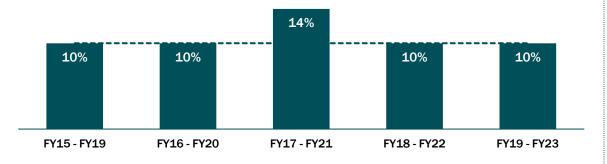
(1) Net Debt to EBITDA as defined under our debt facility agreement

(2) Adjusted earnings coverage is equal to adjusted earnings per share (after tax) divided by full year dividends per share

MEETING MEDIUM TERM OBJECTIVES

GROW ADJUSTED OPERATING PROFIT: 10% 5-YEAR CAGR

(5-year CAGR, constant currency, inc. JVs, exc. Gene editing)



MAINTAIN A STRONG BALANCE SHEET: 1.0X – 2.0X NET DEBT : EBITDA¹



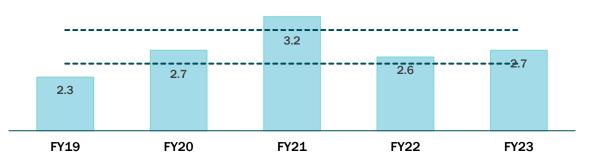
(1) Net Debt to EBITDA as defined and reported under our debt facility agreement.

CONVERT PROFIT TO CASH: 90%+ ANNUAL CASH CONVERSION

(net cash from operations : op. Profit exc. JVs)



DELIVER SHAREHOLDER RETURNS: 2.5X – 3.0X ADJUSTED EARNINGS COVERAGE (adj EPS/DPS)



SUMMARY & OUTLOOK

ALISON HENRIKSEN CHIEF FINANCIAL OFFICER



SUMMARY AND OUTLOOK



SOLID FY23 PERFORMANCE

- Adjusted Profit Before Tax £71.5m
- Free cash flow £18.2m
- Met medium term growth targets



ACHIEVED GOOD STRATEGIC PROGRESS



DRIVEN BY LEADING GENETICS, LONG-TERM CUSTOMERS, GLOBAL SUPPLY CHAIN AND GREAT PEOPLE



INVESTED FOR GROWTH



- Tough conditions for producers; but well placed for market share gains
- Growing royalty business in China
- In FY24, expect to perform in line with medium term growth expectations in constant currency
- Headwinds from currency and interest rates; expect modest growth in FY24 PBT in actual currency
- PRRSv FDA approval expected first half 2024
- PRRSv Capital Markets Day 1
 November 2023

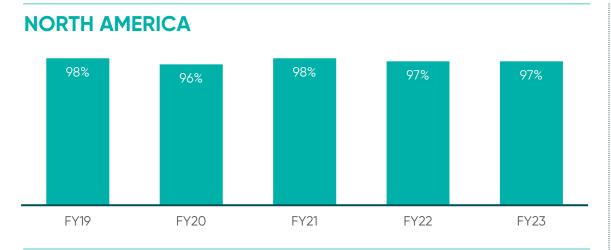


APPENDICES

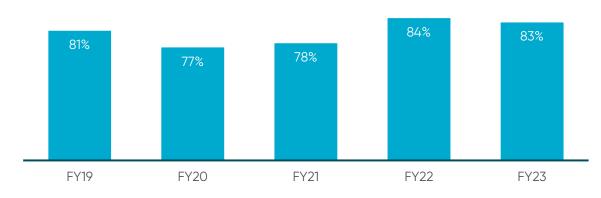




PROPORTION OF TOTAL PORCINE VOLUMES UNDER ROYALTY



LATIN AMERICA



 EMEA
 7%
 8%

 68%
 70%
 1

 68%
 70%
 1

 58%
 70%
 1

 58%
 70%
 1

 58%
 70%
 1

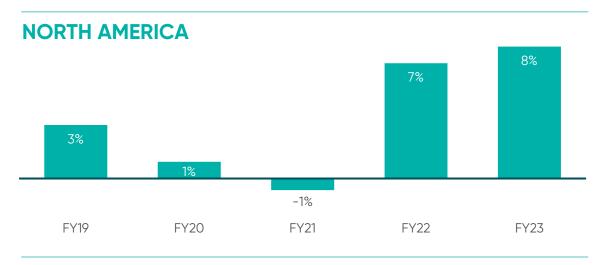
 59
 FY20
 FY21
 FY22
 FY23

ASIA

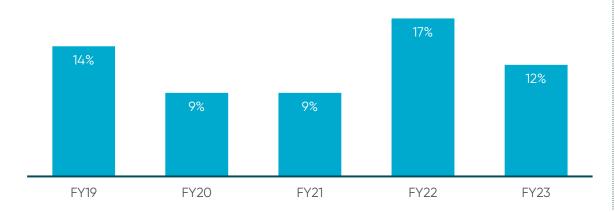


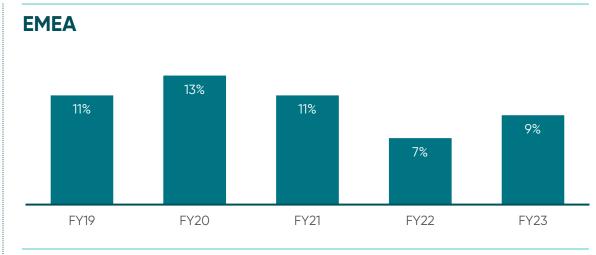
(1) Restated to exclude volumes related a customer refund in China following changes to commercial terms

PORCINE ROYALTY REVENUE GROWTH

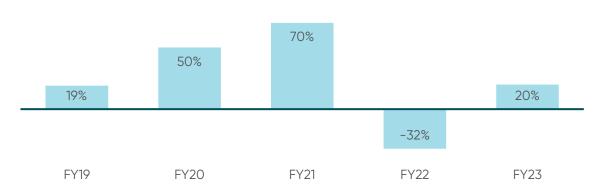


LATIN AMERICA





ASIA



FINANCIAL RESULTS

	FY23	FY22	% Change	% Change
	£m	£m	Actual Currency	Constant Currency
Revenue	689.7	593.4	16%	10%
Adjusted operating profit inc. JV ex. gene editing	100.1	85.6	17%	9%
Adjusted operating profit inc. JV	85.8	77.7	10%	3%
Net finance costs	(14.3)	(6.2)	(131)%	(124)%
Adjusted profit before tax	71.5	71.5	0%	(8)%
Adjusted earnings per share (pence)	84.8	82.7	3%	(5)%
Dividend per share (pence)	32.0	32.0	_	-



GENUS PIC RESULTS

	FY23	FY22	% Change	% Change
	£m	£m	Actual Currency	Constant Currency
Revenue	349.5	306.6	14%	7%
Adjusted operating profit ex. JV	135.0	112.3	20%	11%
Adjusted operating profit inc. JV	145.3	121.2	20%	11%
Adjusted operating margin ex. JV	38.6%	36.6%	2.0pts	1.6pts

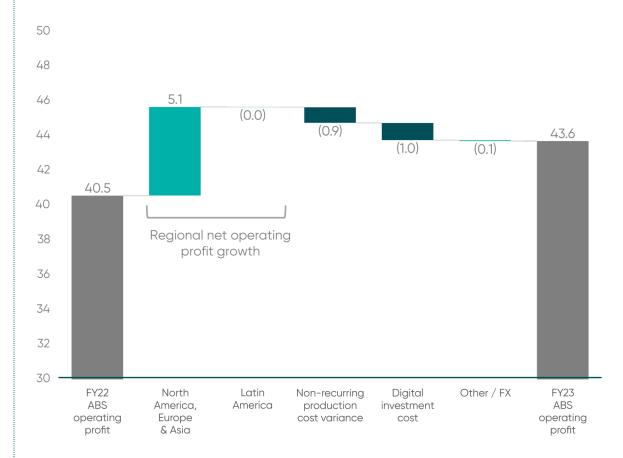


GENUS ABS FULL YEAR PERFORMANCE

ADJUSTED OPERATING PROFIT RESULTS

	FY23	FY22	% Change	% Change
	£m	£m	Actual Currency	Constant Currency
Revenue	318.8	272.0	17%	12%
Adjusted operating profit	43.6	40.5	8%	5%
Adjusted operating margin	13.7%	14.9%	(1.2)pts	(1.1)pts

FULL YEAR OPERATING PROFIT BRIDGE¹ (£M)



 Bridge items are in constant currency calculated by restating the results for the year ended 30 June 2023 at the average exchange rates applied to adjusted operating profit for the year ended 30 June 2022. The FX difference is included within Other / FX.

EXCHANGE RATE SENSITIVITY

		FY23 Average ¹	FY23 Closing	Spot at 1 Sep 2023	Profit Sensitivity £m ²
 Genus's geographic profile can lead to translational currency impacts 	Mexican Peso	22.7	21.7	21.5	2.0
 We monitor key rates against 	Euro	1.15	1.16	1.17	1.6
GBPLatest spot rates would indicate	Brazilian Real	6.19	6.08	6.23	1.5
a headwind of circa £5m-£6m for FY24 compared with average FY23 rates, though	Chinese Yuan	8.38	9.21	9.07	1.6
currencies remain volatile	Russian Rouble	85.1	112.8	121.4	1.0
	US Dollar	1.24	1.27	1.26	0.7

(1)

Weighted average exchange rate based on operating profit inc JV income 12 month operating profit impact given a +/- 10% movement in exchange rate, based on FY23 results. Current year sensitivity may differ based on current trading. (2)

RETURN ON ADJUSTED INVESTED CAPITAL

	FY23	FY22
	£m	£m
Adjusted operating profit inc JV	85.8	77.7
Tax rate	22.2%	24.3%
Adjusted operating after tax	66.8	58.8
Equity attributable to owners of the company	574.9	578.5
Add back:		
Net debt	195.8	185.0
Pension liability	6.9	8.3
Related deferred tax	(1.2)	(1.3)
Deduct:		
Biological assets (less historical cost)	(281.3)	(310.5)
Related deferred tax	67.7	73.0
Goodwill	(107.8)	(111.0)
Adjusted invested capital	455.0	422.0
Return on adjusted invested capital	14.7%	13.9%

GLOSSARY

Artificial insemination ('AI') Using semen collected from a bull or boar to impregnate a cow or sow when in estrus. Artificial insemination allows a genetically superior male to be used to mate with many more females than would be possible with natural mating.

ASF African Swine Fever.

Boar A male pig.

CRISPR-Cas 9 Technology which accurately targets and cuts DNA to produce precise and controllable changes to the genome.

 $\rm CO_{2e}$ measure used to compare the emissions from various GHGs based on their global-warming potential, by converting amounts of other gases to the equivalent amount of carbon dioxide with the same global warming potential

Farrow When a sow gives birth to piglets.

FCR Feed conversion ratio

Gender skew The ability to influence the proportion of offspring being of a particular sex.

Genetic gain The change of the genetic make up of a particular animal population in response to having selected parents that excelled genetically for important traits.

Genetic lag The amount of time required to disseminate genetic gain from a nucleus herd to the commercial customer.

Genetic nucleus A specialised pig herd, where Genus PIC keeps its pure lines. Pigs are genetically tested at the nucleus to select the best animals to produce the next generation. This is also referred to as an Elite Farm. **Genomic bull** A bull which has been assessed through genomic testing. This typically refers to bulls which have not been progeny-tested.

Genomics The study of the genome, which is the DNA sequence of an animal's chromosomes.

GHG Gases that trap heat in the atmosphere are called greenhouse gases

Gilt A young female pig, which has not yet given birth.

GGP/GP Great grandparent/grandparent.

In vitro fertilisation ('IVF') The fertilisation of an oocyte (or egg) with semen (outside an animal) in a laboratory for transfer into a surrogate.

Index/Indices A formula incorporating economically important traits for ranking the genetic potential of animals as parents of the next generation.

IntelliGen The technology platform used to process sexed bovine semen for ABS and third-party customers and commercialised by ABS as Sexcel.

Market pig equivalents ('MPE') Refers to a standardised measure of our customers' production of slaughter animals that contain our genetics with genes from each of the sow and boar counting for half of the animal.

Multiplier A producer whose farm contains grandparent sows. The farm crosses together two lines of grandparents, multiplying the number of genetically improved parents that are available for sale.

NuEra The ABS beef breeding programme and index designed to drive the customer's genetic improvement and deliver total system profitability for the beef supply chain.

PSY Pigs per Sow per Year. The average number of pigs weaned per litter multiplied by the average number of litters farrowed per sow per year.

PRRSv Porcine Reproductive and Respiratory Syndrome Virus.

Scope 1 emissions are emissions that result from directly burning fuels or emissions of GHG from sources owned or controlled by Genus

Scope 2 emissions are in-direct emissions associated with the use or generation of energy in the form of electricity

Sexcel The ABS brand of sexed bovine genetics produced using IntelliGen.

Sire The male parent of an animal.

Sire line The male line selected for traits desirable for the market.

Sow A female pig which has given birth at least once.

Straw A narrow tube used to package frozen bull semen.

Terminal boars The male pig that is used to mate with a parent female to produce a terminal pig.

Trait A measurable characteristic that may be a target for genetic selection.

Unit A straw of frozen bull semen or tube/bag of fresh boar semen sold to a customer.