



Interreg



Co-funded by
the European Union

Central Baltic Programme

BreedExpo2

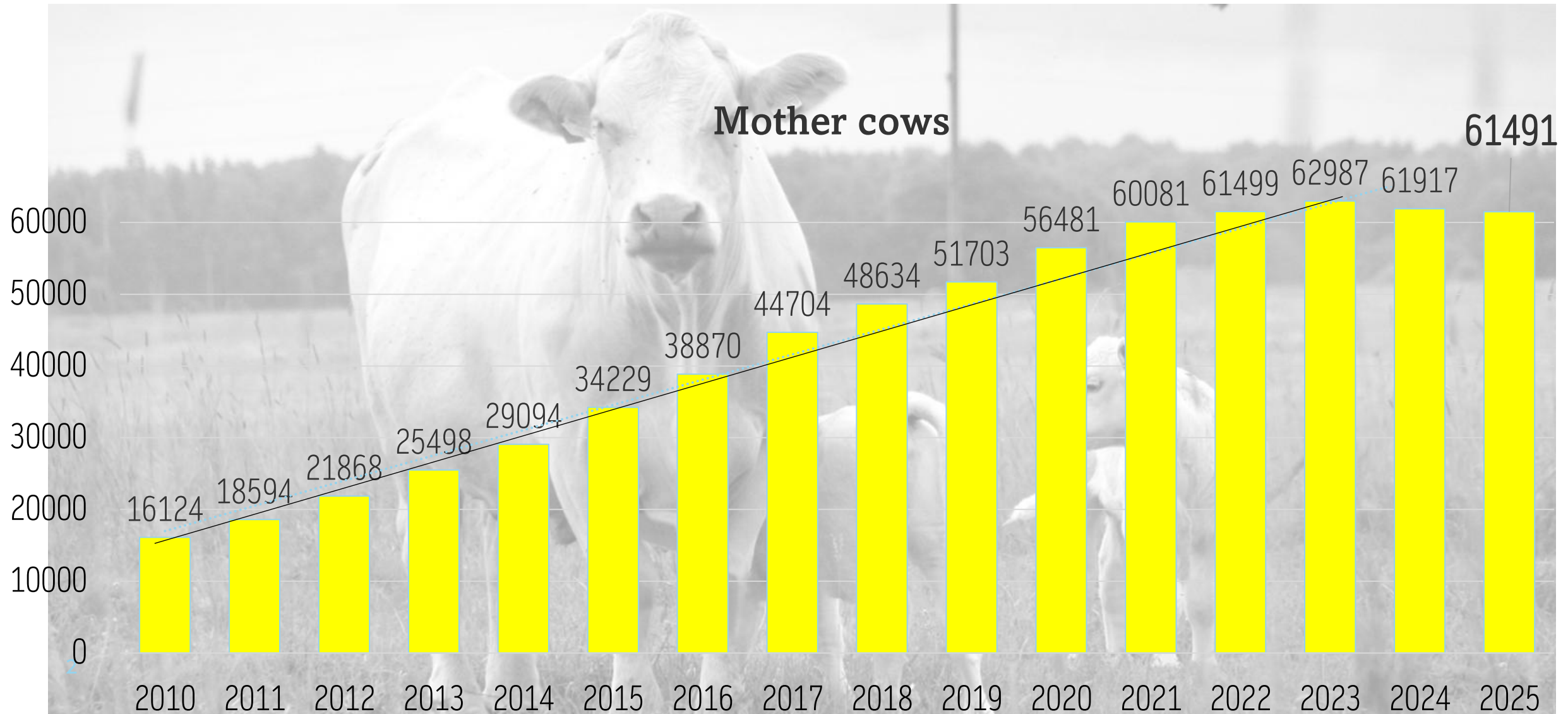


LIVESTOCK IN LATVIA

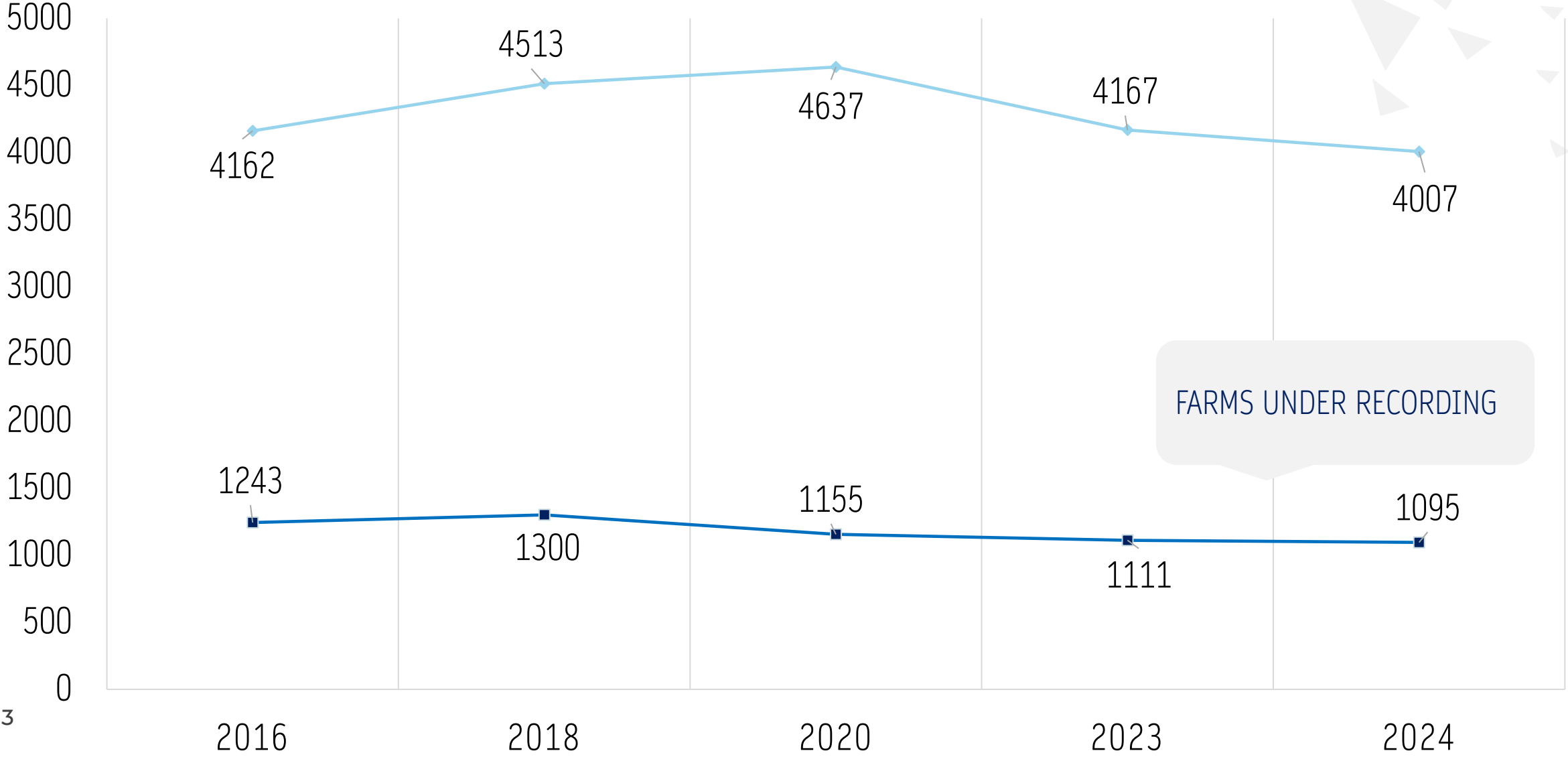


EMĪLS CENSONIS KRISTĪNE ĀDAMA

BEEF CATTLE IN LATVIA:



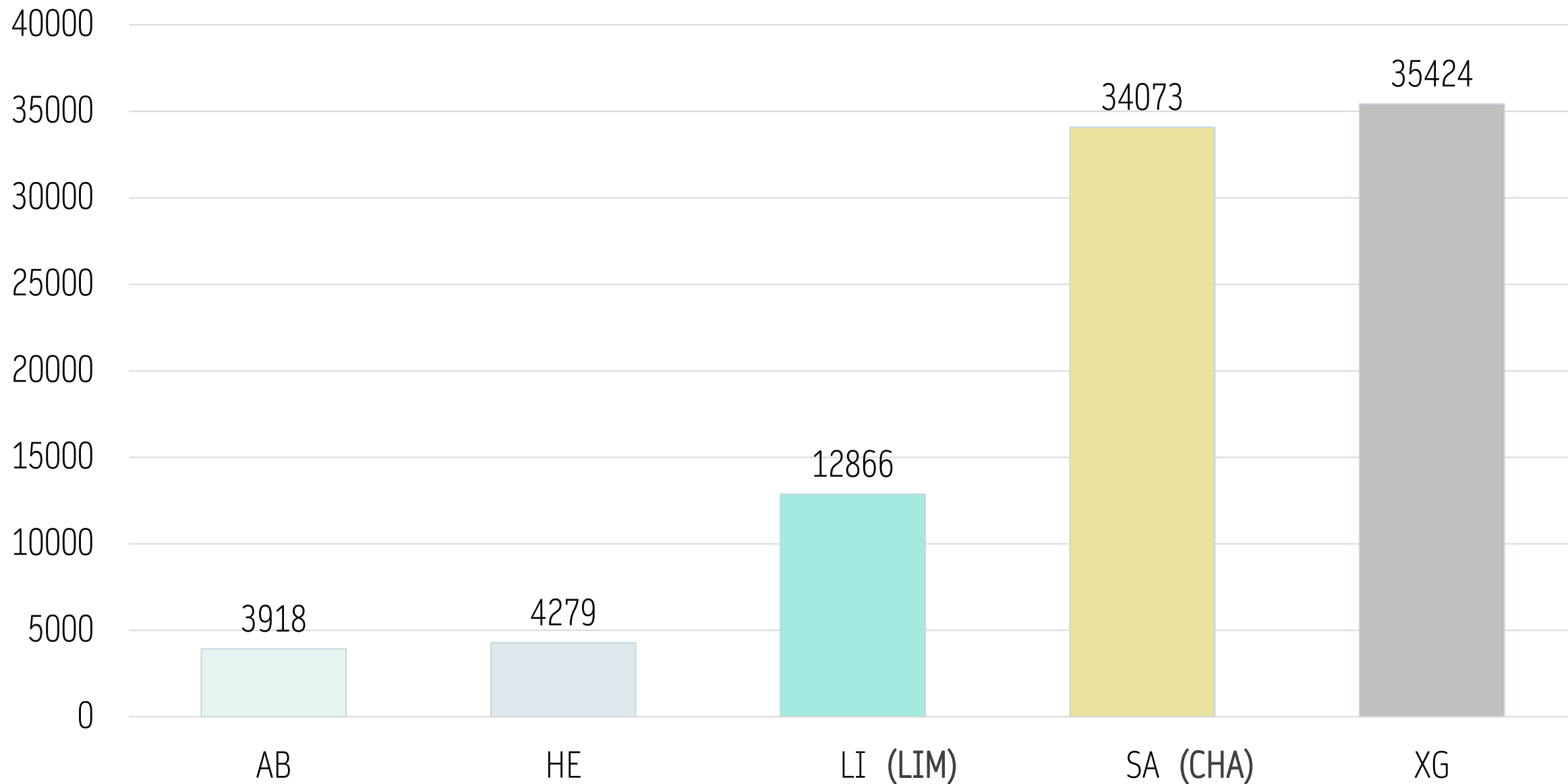
BEEF CATTLE FARMERS IN LATVIA



FARMS UNDER RECORDING



Majority beef breeds in Latvija



BEEF CATTLE BREEDERS ORGANISATION



- unite beef cattle breeders;



- to represent and defend the interests of members;



- **organize educational events for beef cattle breeders (seminars, experience exchange trips);**



- actively inform members about industry news;



- participate in the implementation of various scientific projects.

GENOMIC EVALUATION – FARM PRODUCTION AND HEALTH-



GOVERNMENT SUPPORT

2022. g. – EUR 5 000

2023. g. – EUR 40 000

2024. g. – EUR 40 000

CHAROLAIS CATTLE

LIMOUSIN CATTLE



GENOMIC EVALUATION – FARM PRODUCTION AND HEALTH–



GOVERNMENT SUPPORT

2022. g. – EUR 5 000

2023. g. – EUR 40 000

2024. g. – EUR 40 000





BENEFITS OF GENOMICS

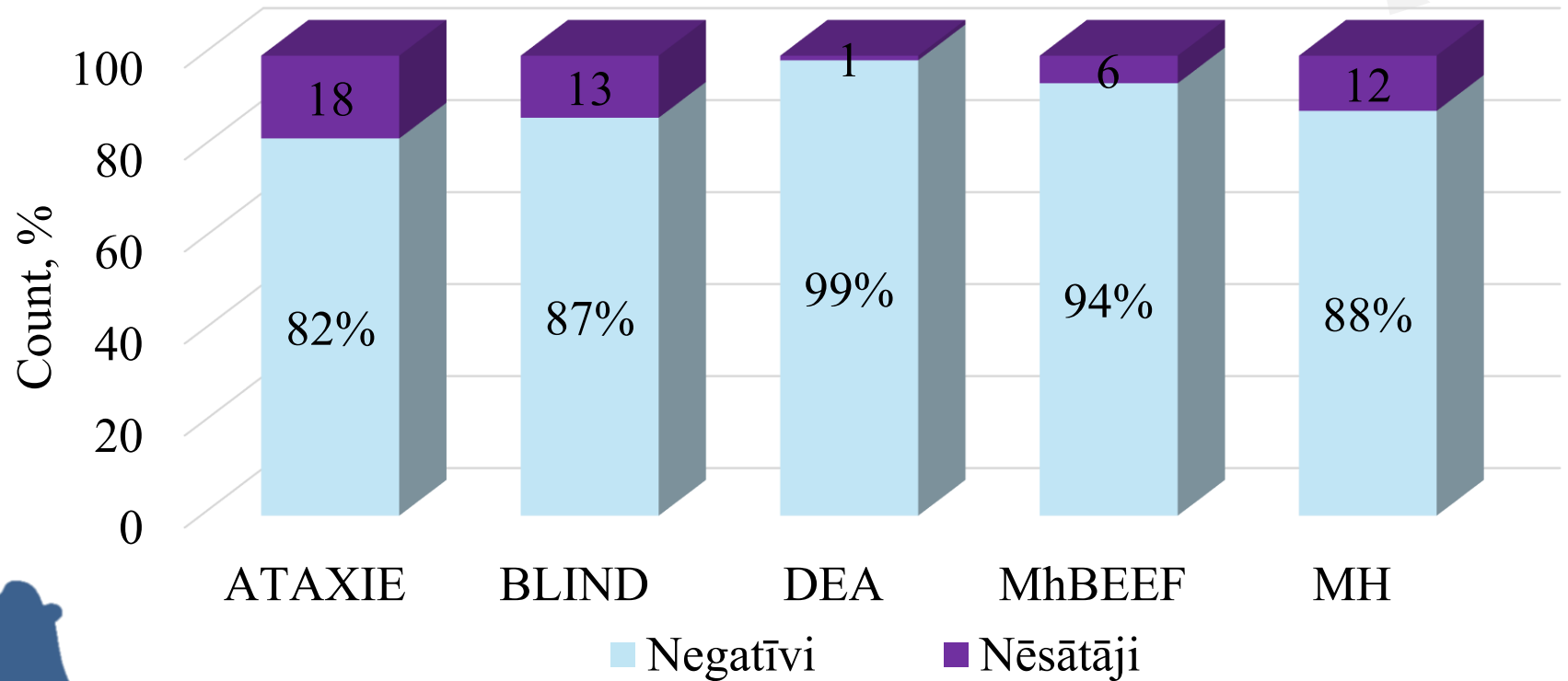
- SELECTION ON FARM
- COMPARISMENT
- FARMER KNOWLEDGE INCREASE
- BETTER BREEDING GOALS
- MARKETING STRATEGIES
- GENETIC INCREASE
- HEALTHIER FARMS

ATAXIE; DEA –Anhidrotic ectodermal dysplasia

BLIND; MhBEEF & MH – double muscle

Gene defects

Animals tested
>400



MH – possible problems at calving, but better carcass
MhBEEF – no calving problems



RESEARCHES

“Maternal impact on calves based on genomic breeding values”

Focusing on the key traits in heifers that matter most for farmers



Aiming for genetic progress that secures prosperity for both cattle and breeders.



MARKET AND EXPORT





Your
cattle
expert

Why choose us

For 16 years, we've connected buyers with top-quality Latvian beef cattle, recognized globally for excellence. Our auction model ensures a diverse selection and competitive pricing.

WE PROVIDE:



Beef cattle auctions



Dairy cattle trading



Meat trading



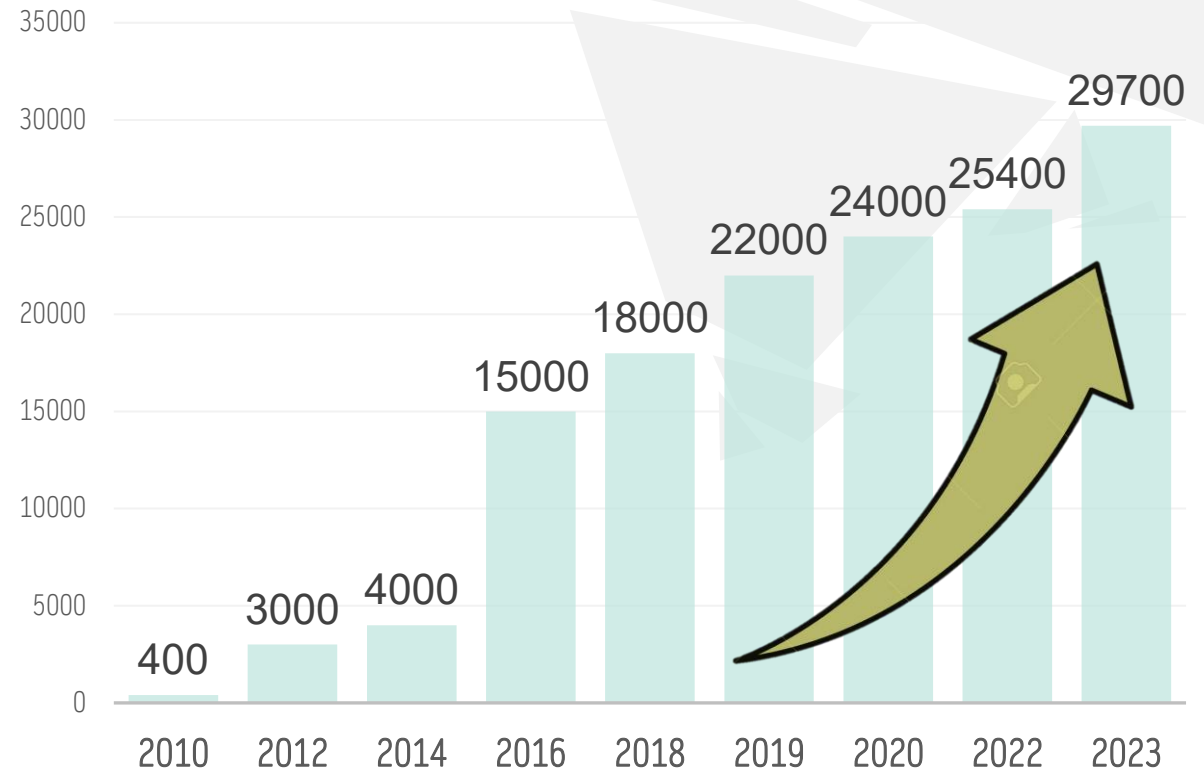
Cattle export service



Quarantine service



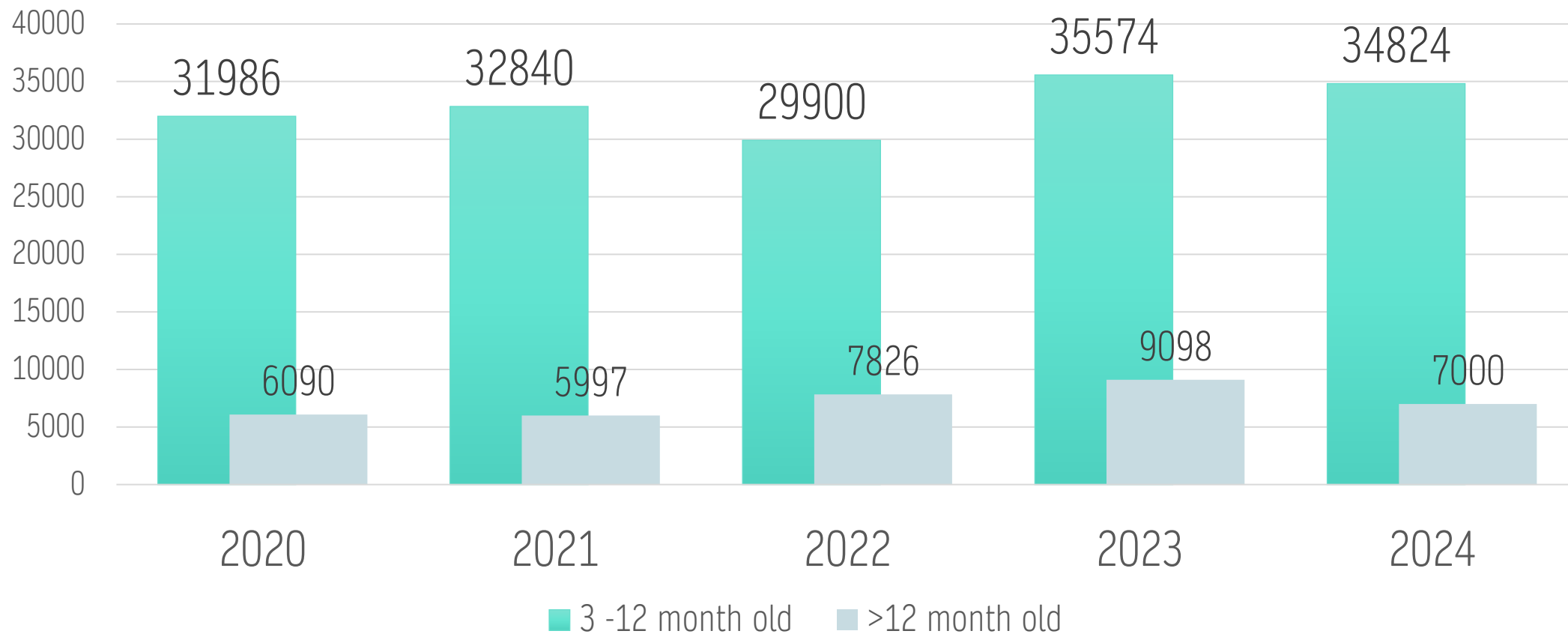
Unique trading system in Eastern Europe



Animals sold / year (4-12 m. old)



BEEF ANIMALS EXPORTED FROM LATVIA



PRICE

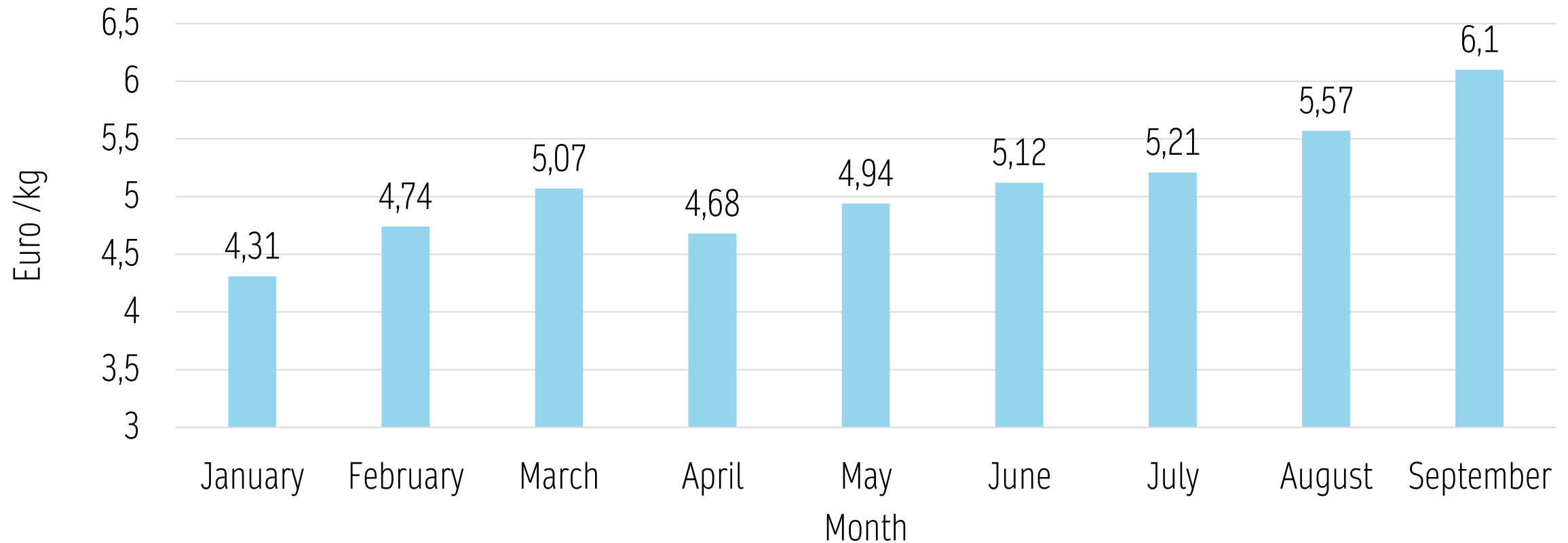
Charolais 250-300kg weaned calves



Even without pushing breeding stock, our genetics speak for themselves — delivering sustainable cattle for the global fattening industry

— THE POWER OF FARMERS UNITED

Charolais weaning cattle 250-300 kg (€/kg) (2025)



Our cattle speak for our work — consistent results, satisfied markets — buyers return with confidence



EASTERN-NORTH BEEF CATTLE



NATURAL PASTURES

- VAST, FERTILE LAND IDEAL FOR GRAZING



SUSTAINABLE CATTLE

- HARDY, EFFICIENT, CLIMATE-ADAPTED HERDS



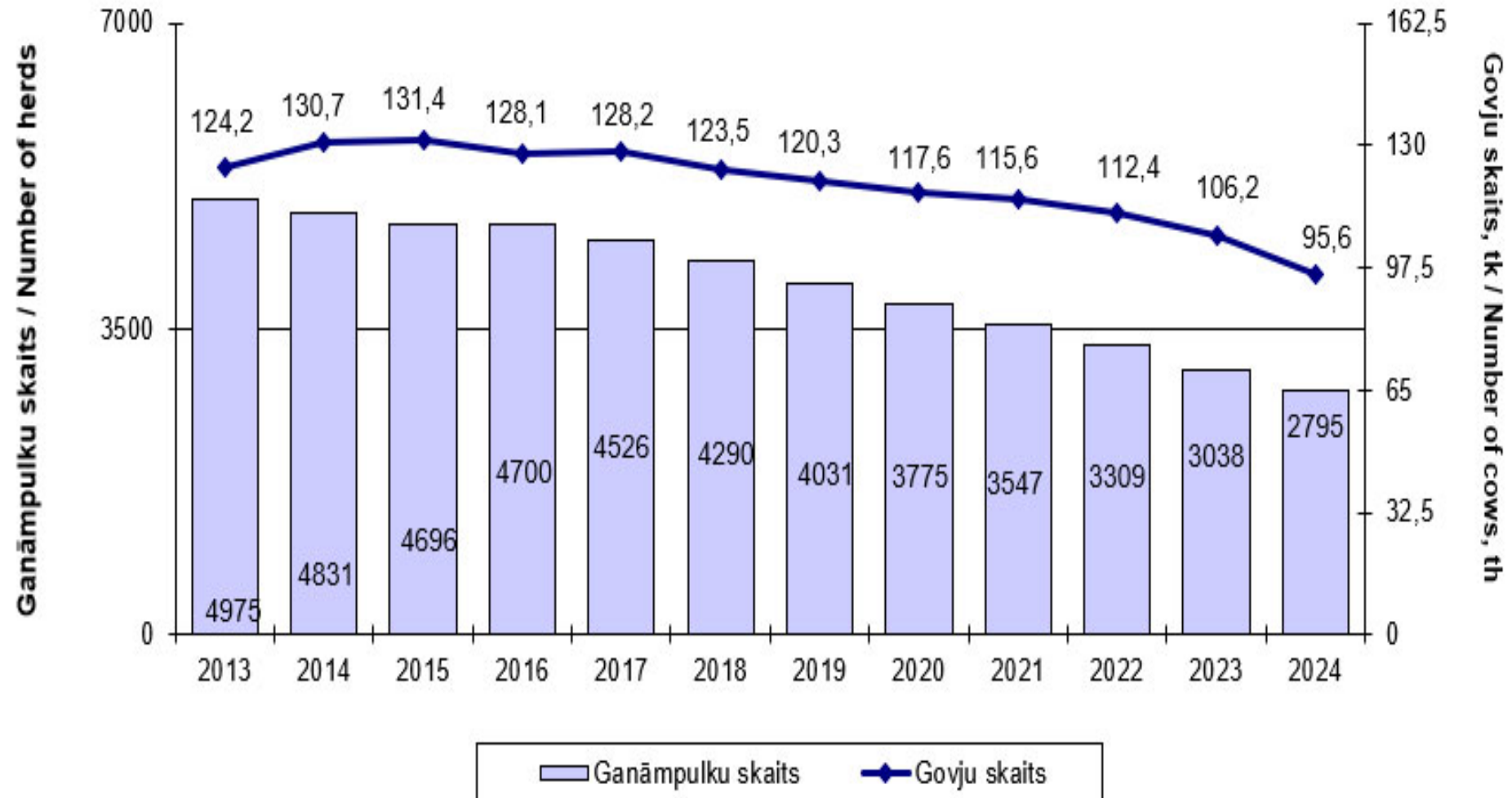
STRONG MATERNAL INSTINCTS

- FERTILE, EASY-CALVING, RELIABLE MOTHER COWS

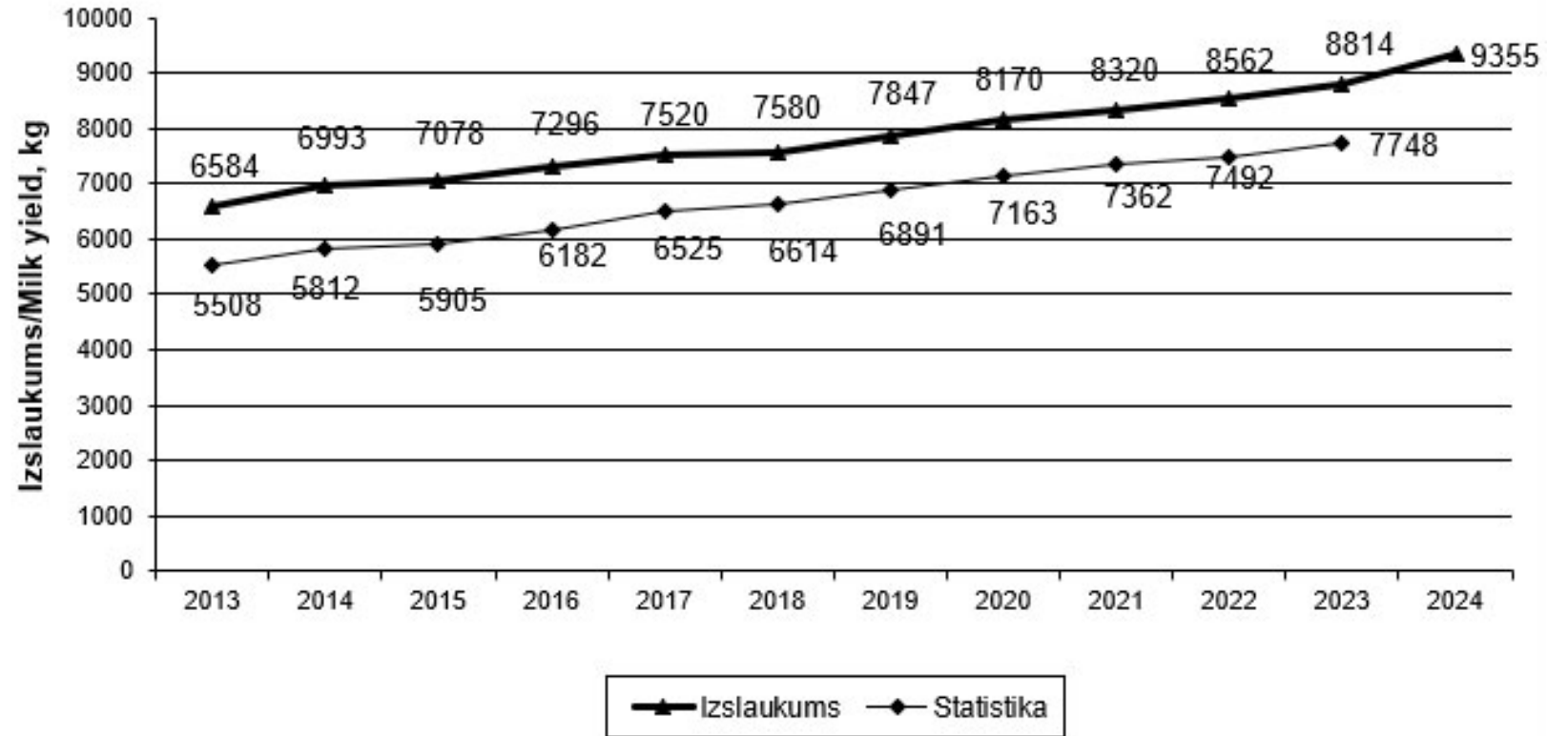
MILK PRODUCTION



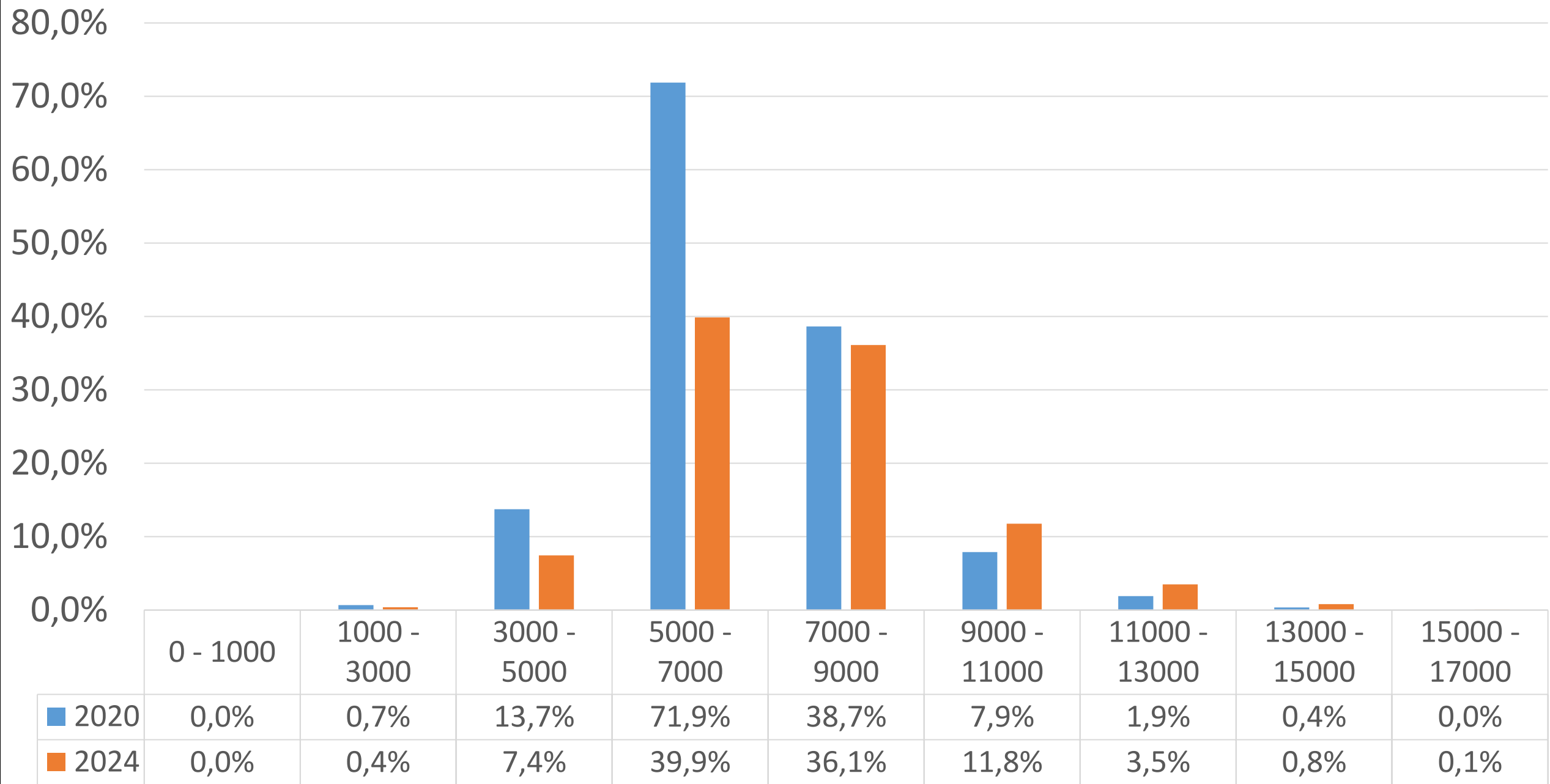
DAIRY HERD AND ANIMAL RECORDING



AVERAGE MILK YEALD



Distribution of herds by average milk yield



GENOME ANALYSES

- Genome analyses begin in 2008, in Latvia – in 2018
- Reliability

Journey to 10 Million

Number of Animal Genotypes in the National Cooperator Database



Ticamība

- If we only know the parent average, then the reliability is $\sim 27\%$
- If we know the parent average and cow production records, then the reliability is $\sim 50\%$
- The reliability of genomic results is above 70%

GENOME ANALYSES

- Genome analyses begin in 2008, in Latvia – in 2018
- Reliability
- Base



Premier Dairy Genetic Information Services and Collaboration

The Council on Dairy Cattle Breeding (CDCB) manages the National Cooperator Database, calculates and distributes the U.S. genetic evaluations and genomic predictions, and aggregates dairy cattle data.

10million

genotypes in National Cooperator Database (Dec 2024)

93%

percent of genotyped animals are female (Sep 2024)

87million

animals receiving CDCB evaluations (Dec 2024)

49

traits calculated by CDCB

zoetis

ST  *enetics* TM

 **NEOGEN** [®]
CORPORATION

GENOME ANALYSES

- Genome analyses begin in 2008, in Latvia – in 2018
- Reliability
- Base
- **Index and traits**



April 2025

TPI[®]

$$\frac{19(\text{PTAP})}{17} + \frac{19(\text{PTAF})}{22} + \frac{8(\text{FE})}{52} + \frac{8(\text{PTAT})}{0.8} + \frac{11(\text{UDC})}{0.8} + \frac{6(\text{FLC})}{0.8} + \frac{5(\text{PL})}{1.6} + \frac{2(\text{HT})}{2.0} + \frac{3(\text{LIV})}{1.4} - \frac{4(\text{SCS})}{0.13} + \frac{13(\text{FI})}{1.3} - \frac{0.5(\text{DCE})}{0.5} - \frac{1.5(\text{DSB})}{0.8}] 3.8 + 2845$$

**The value 2845 adjusts for our periodic base change, allowing TPI values to be comparable across time.*

PTAP = PTA Protein

PTAF = PTA Fat

FE\$ = Feed Efficiency \$

PTAT = PTA Type

UDC = Udder Composite

FLC = Feet & Legs Composite

PL = PTA Productive Life

HT = Health Trait Index

LIV = PTA Cow Livability

SCS = PTA Somatic Cell Score

FI = Fertility Index

DCE = PTA Daughter Calving Ease

DSB = PTA Daughter Stillbirth

Weighting of Major Categories

Production

46% (Fat, Protein, Body Weight Composite, and Feed Efficiency)

Health & Fertility

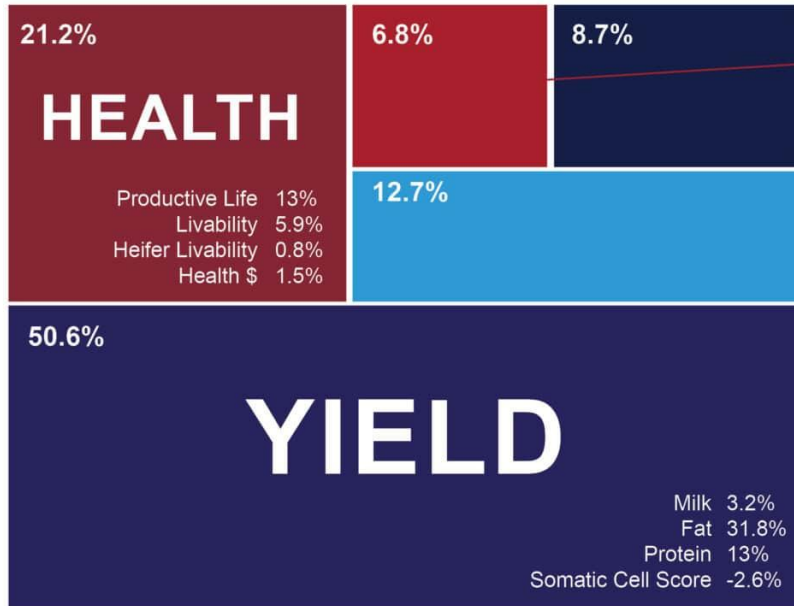
28% (SCS, PL, HT, LIV, FI, DCE and DSB)

Conformation

26% (PTAT, UDC and FLC)

LIFETIME NET MERIT \$

Relative Emphasis of Traits - April 2025 Update



FEED EFFICIENCY
Residual Feed Intake -6.8%

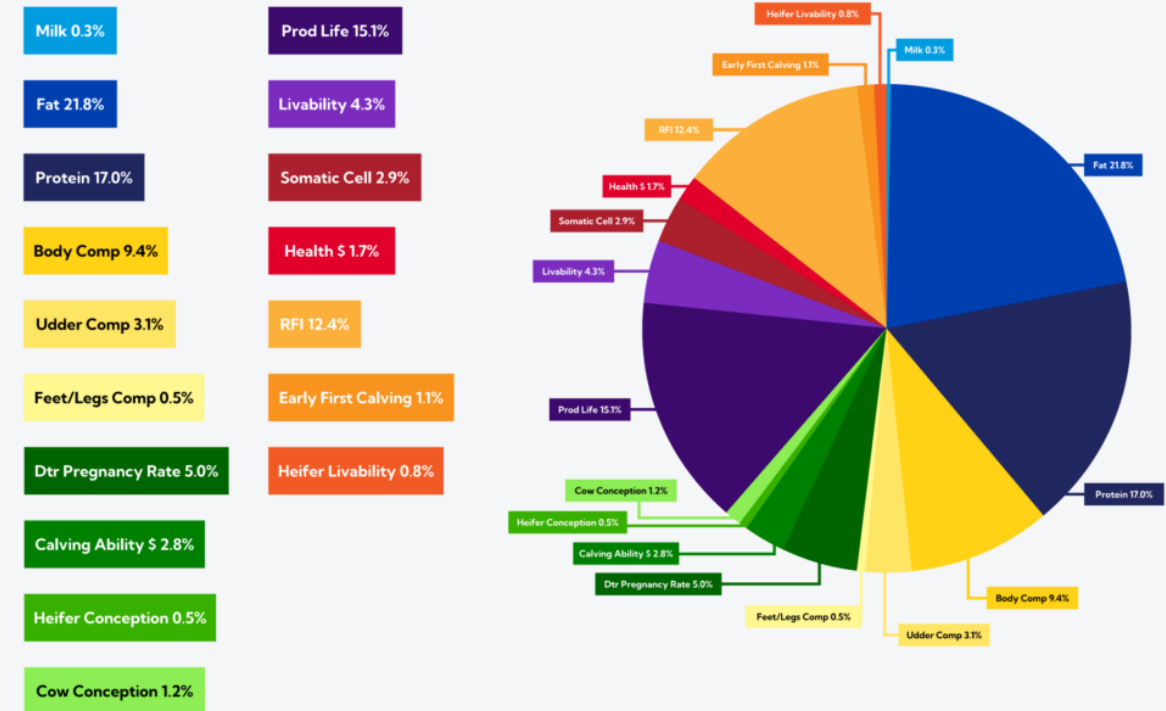
FERTILITY & CALVING
Calving Ability \$ 3.3%
Daughter Pregnancy Rate 2.1%
Cow Conception Rate 1.8%
Heifer Conception Rate 0.5%
Early First Calving 1%

CONFORMATION
Udder Composite \$ 1.3%
Body Weight Composite \$ -11%
Foot and Leg Composite \$ 0.4%



Weighting of Traits in Net Merit Dollars (\$)

Holstein

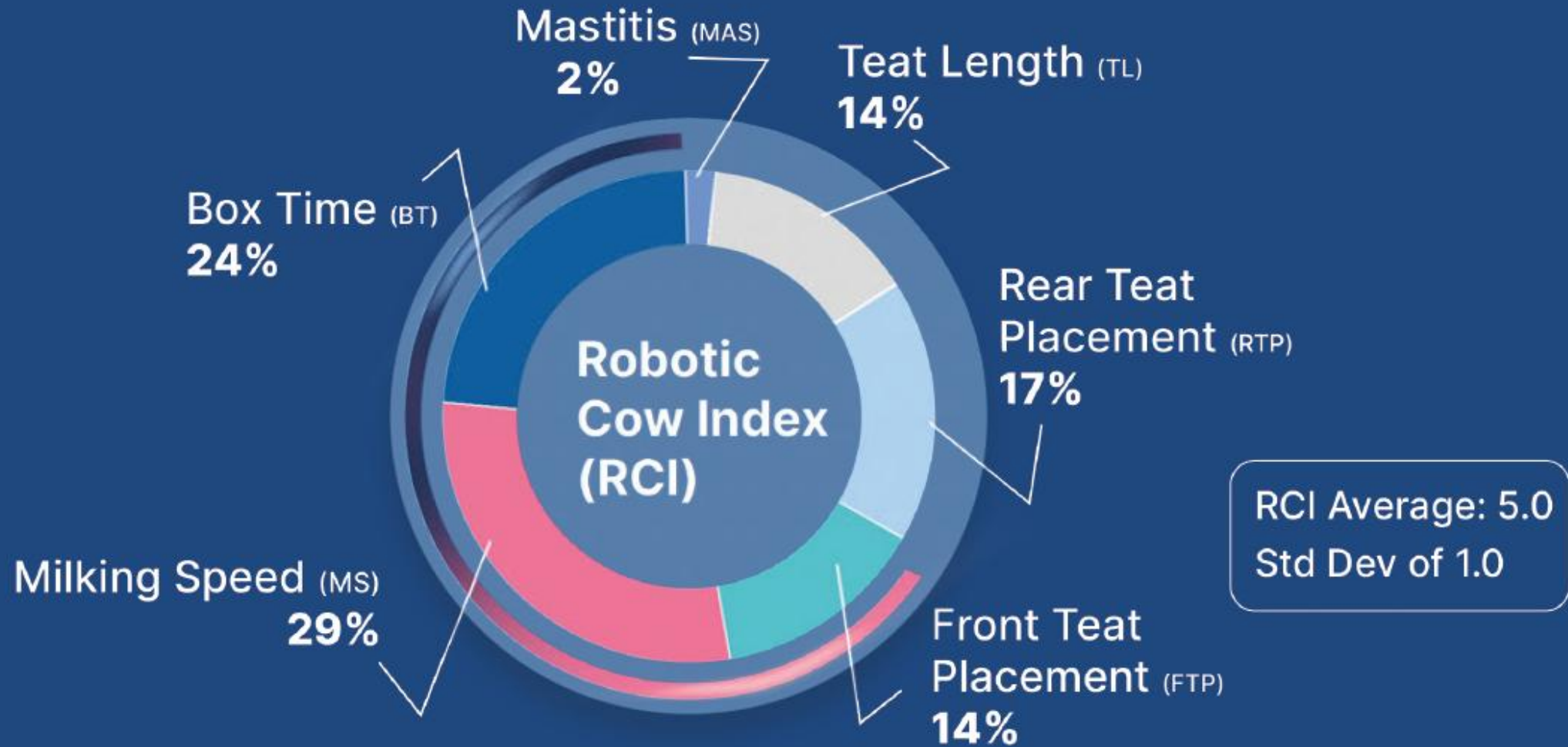


Source: CDCB August 2021

Trait	Units	Relative emphasis (%)			
		NM\$	FM\$	CM\$	GM\$
Milk	Pounds	3.2	17.6	-2.7	3
Fat	Pounds	31.8	31.7	30	30.3
Protein	Pounds	13	0	17.4	12.3
PL	Months	13	13	12.3	6.9
SCS ¹	Log	-2.6	-1.5	-3.2	-2.5
BWC	Composite	-11	-11	-10.4	-13
UDC	Composite	1.3	1.3	1.3	1.5
FLC	Composite	0.4	0.4	0.4	0.4
DPR	Percent	2.1	2.1	2	5.6
CA\$	Dollars	3.3	3.3	3.2	3.4
HCR	Percent	0.5	0.5	0.5	0.9
CCR	Percent	1.8	1.8	1.7	5.2
LIV	Percent	5.9	5.9	5.6	4.4
HTH\$	Dollars	1.5	1.5	1.4	1.5
RFI	Pounds	-6.8	-6.8	-6.4	-7.6
EFC	Days	1	1	1	0.8
HLIV	Percent	0.8	0.7	0.7	0.6



Robotic Cow Traits available for STgenetics® Holstein Sires



* Box Time (42% heritability) and Milking Speed (53% heritability) are two new genetic markers validated by STgenetics® from phenotypic results in robotic systems to precisely determine robotic milking performance.

Research

<i>Indicators</i>	<i>Yield, kg</i>	<i>Fat, kg</i>	<i>Fat, %</i>	<i>Pro., kg</i>	<i>Pro., %</i>	<i>EKP, kg</i>		<i>Amount</i>	<i>Price</i>	<i>Total</i>	
<i>Base</i>	11103.0	396.4	3.58	368.4	3.33	10443.8		Revenues	9035	0.486	4391.01
<i>Genome group</i>	+346.8	+14.9	+0.02	+9.6	-0.02	+341.6		Expenses	50	29.50	1475.00
<i>After mothers</i>	+45.6	+5.2	+0.03	+5.1	+0.02	+114.0		Profit/loss			2916.01

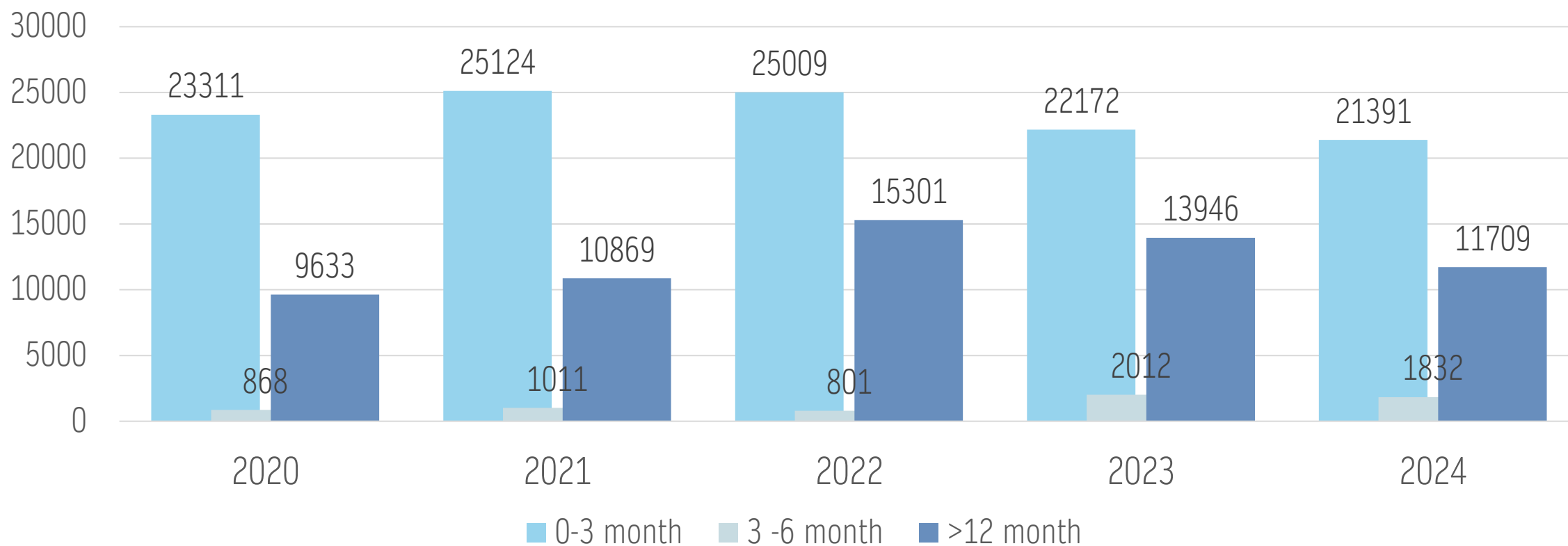
<i>Indicators</i>	<i>Yield, kg</i>	<i>Fat, kg</i>	<i>Fat, %</i>	<i>Pro., kg</i>	<i>Pro., %</i>	<i>EKP, kg</i>
<i>Genome group</i>	343493	12337.9	3.59	11338.9	3.30	323556.3
<i>After mothers</i>	334458	12048.8	3.60	11203.7	3.35	316734.4
<i>Difference</i>	9035	289.1	-0.01	135.2	-0.05	6821.8





MARKET OVERVIEW

DAIRY ANIMALS EXPORTED FROM LATVIA





THANK YOU FOR HAVING US IN THIS PROJECT!

Kristīne Ādama

Kristinei.adamai@gmail.com

+371 25622889

Emīls Censonis

emilscensonis@gmail.com

+371 27862085

