



A journey of technology that started with sex semen

STgenetics®

“SUSTAINABILITY
in everything we do.”

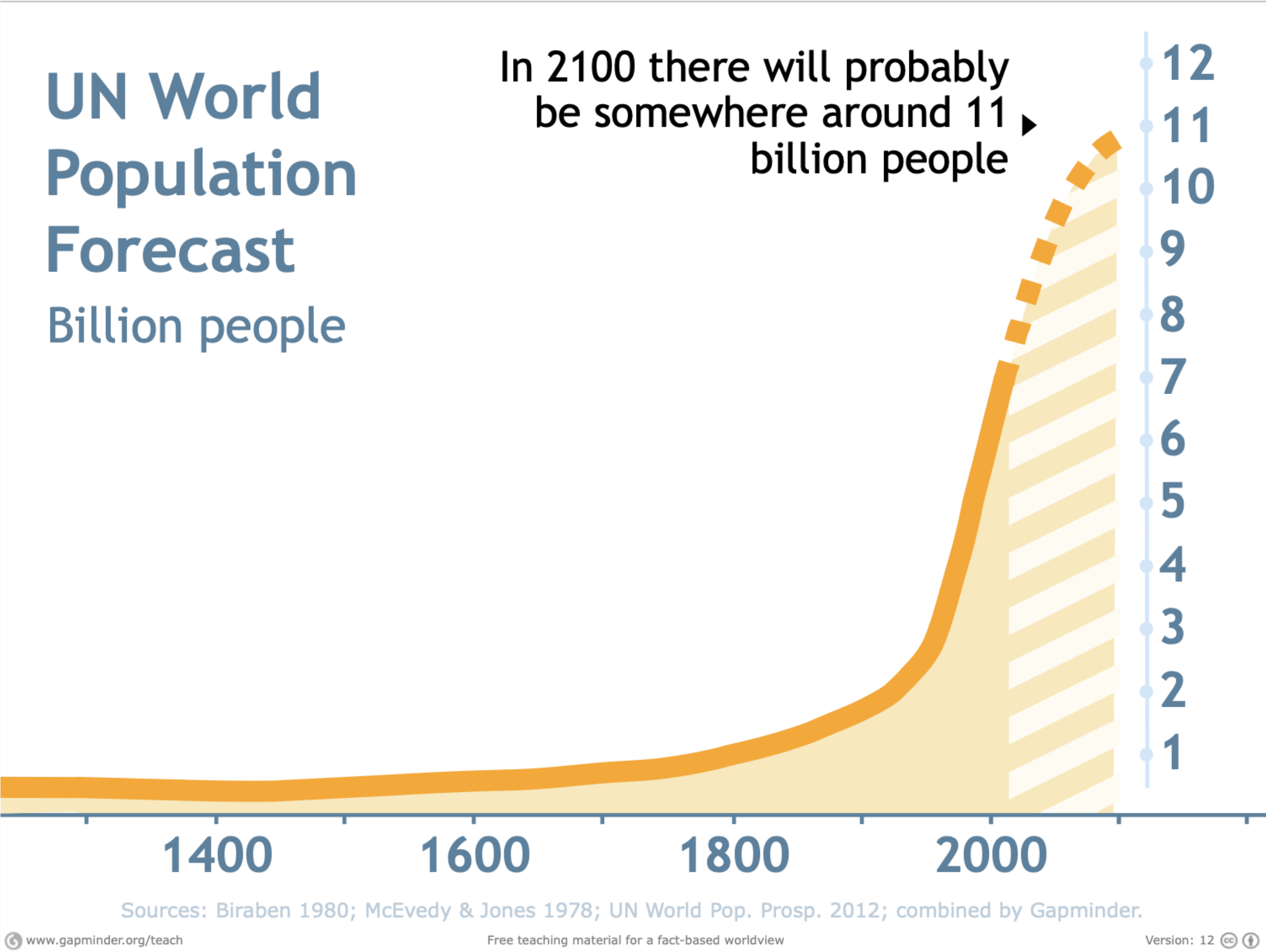


Our goal

A sustainable future by utilizing
Biotechnology, Bioinformatics and
Biosensors to Improve Efficiencies in
animal protein production.

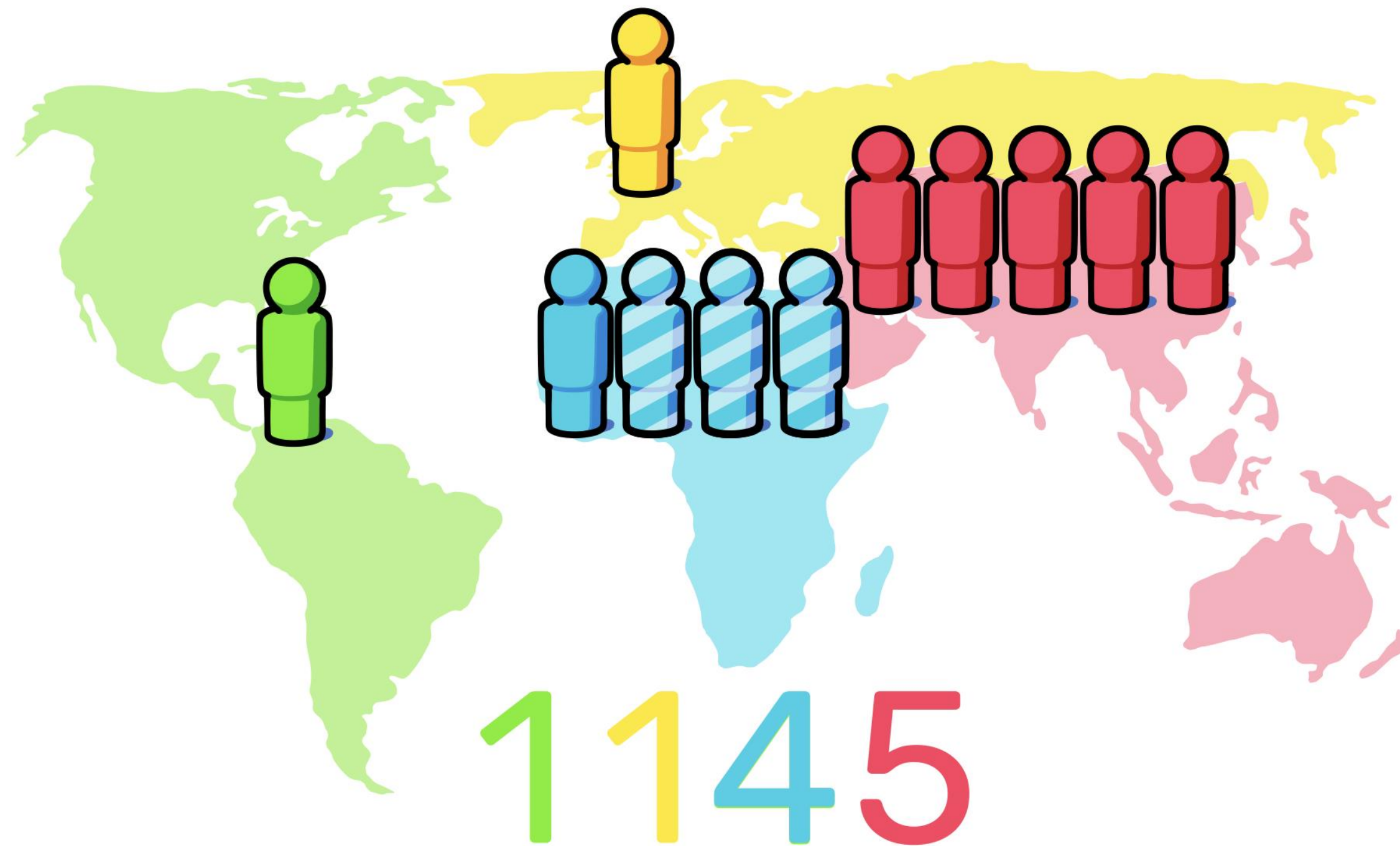


In about 80 years, the world population will peak



Will there be enough food?

World Population **2080**



Nutrient Found in Red Meat and Dairy Products Could Boost Cancer Therapies

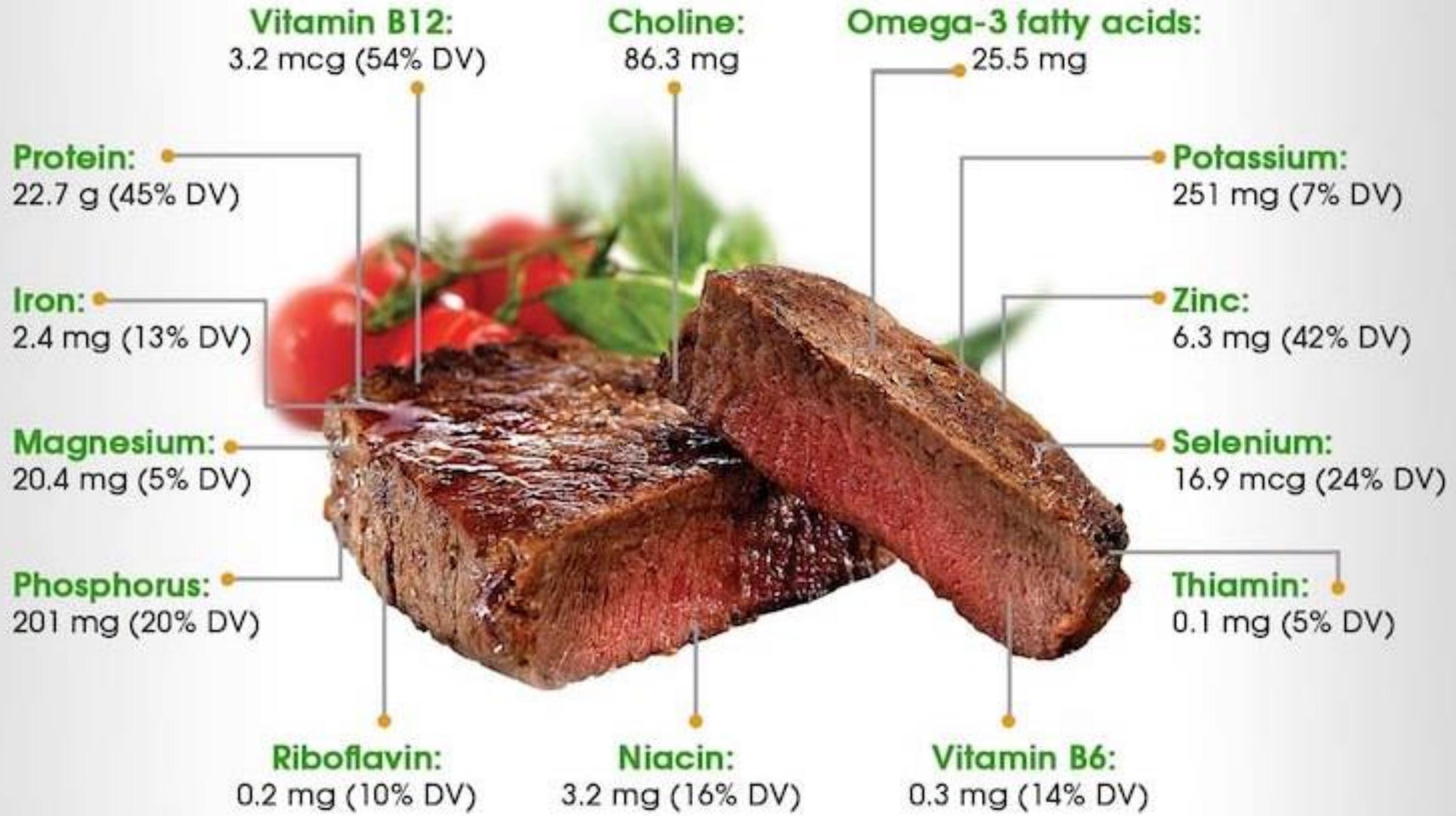
November 29, 2023



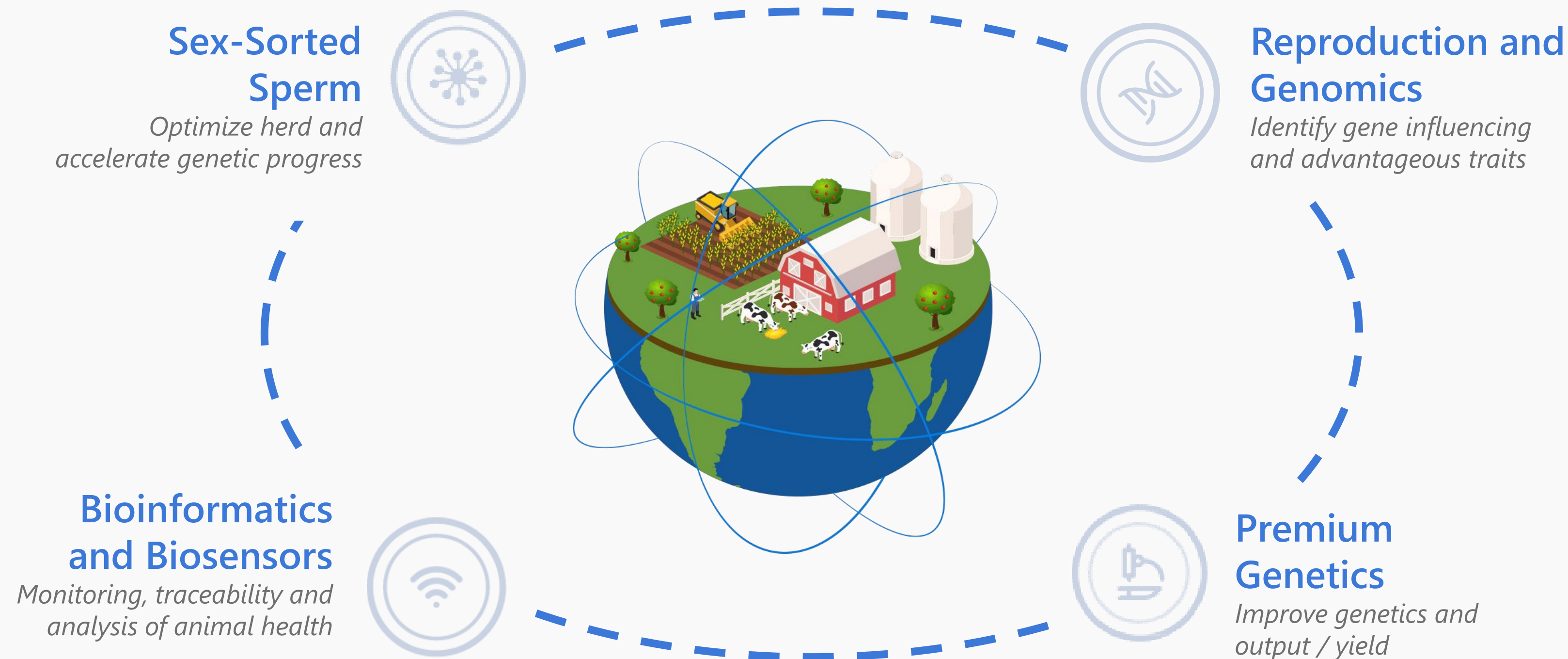
Credit: nehopelon/Getty Images

University of Chicago researchers have identified a nutrient derived from beef, lamb, and dairy products that could enhance cancer therapies (<https://www.insideprecisionmedicine.com/?s=cancer+therapies>).

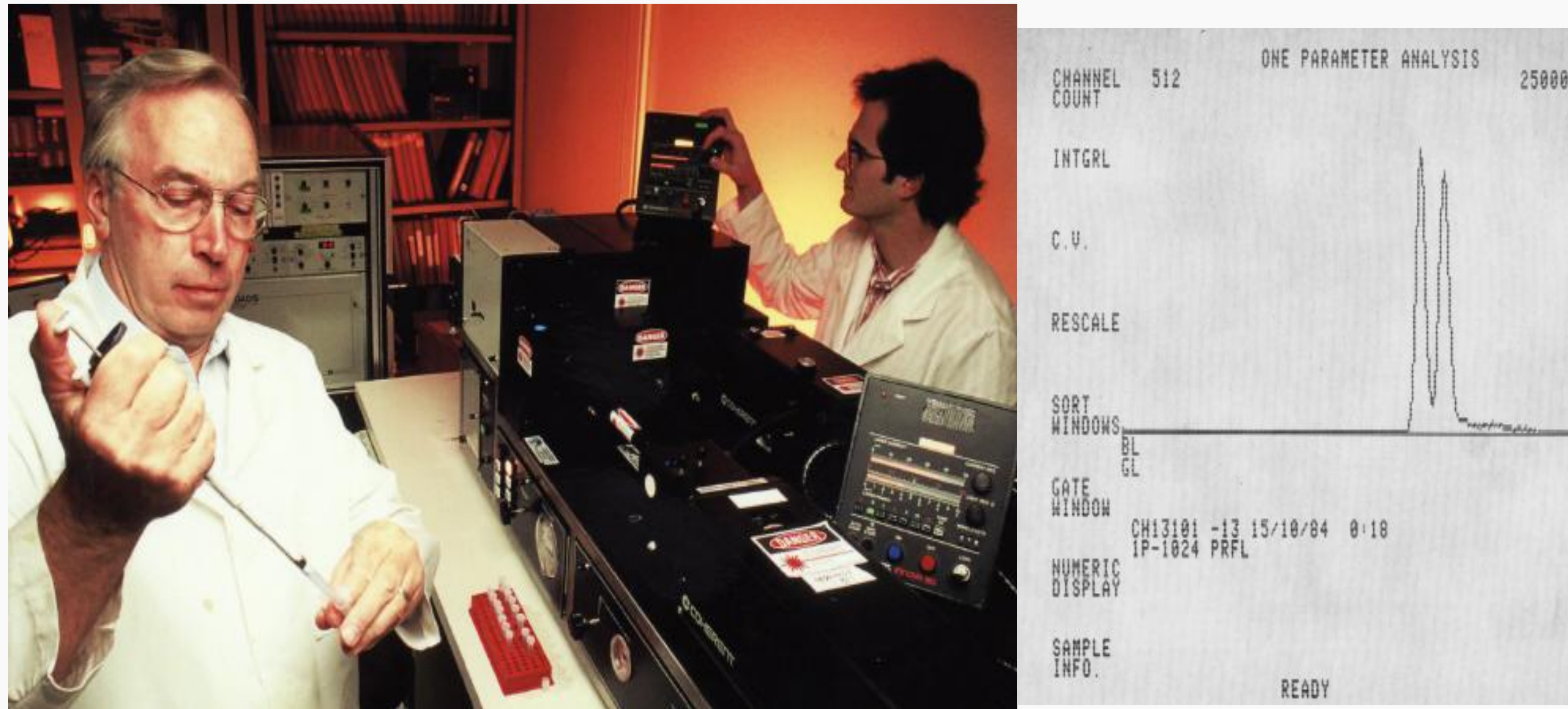




Technology platforms to improve the entire animal protein production value chain

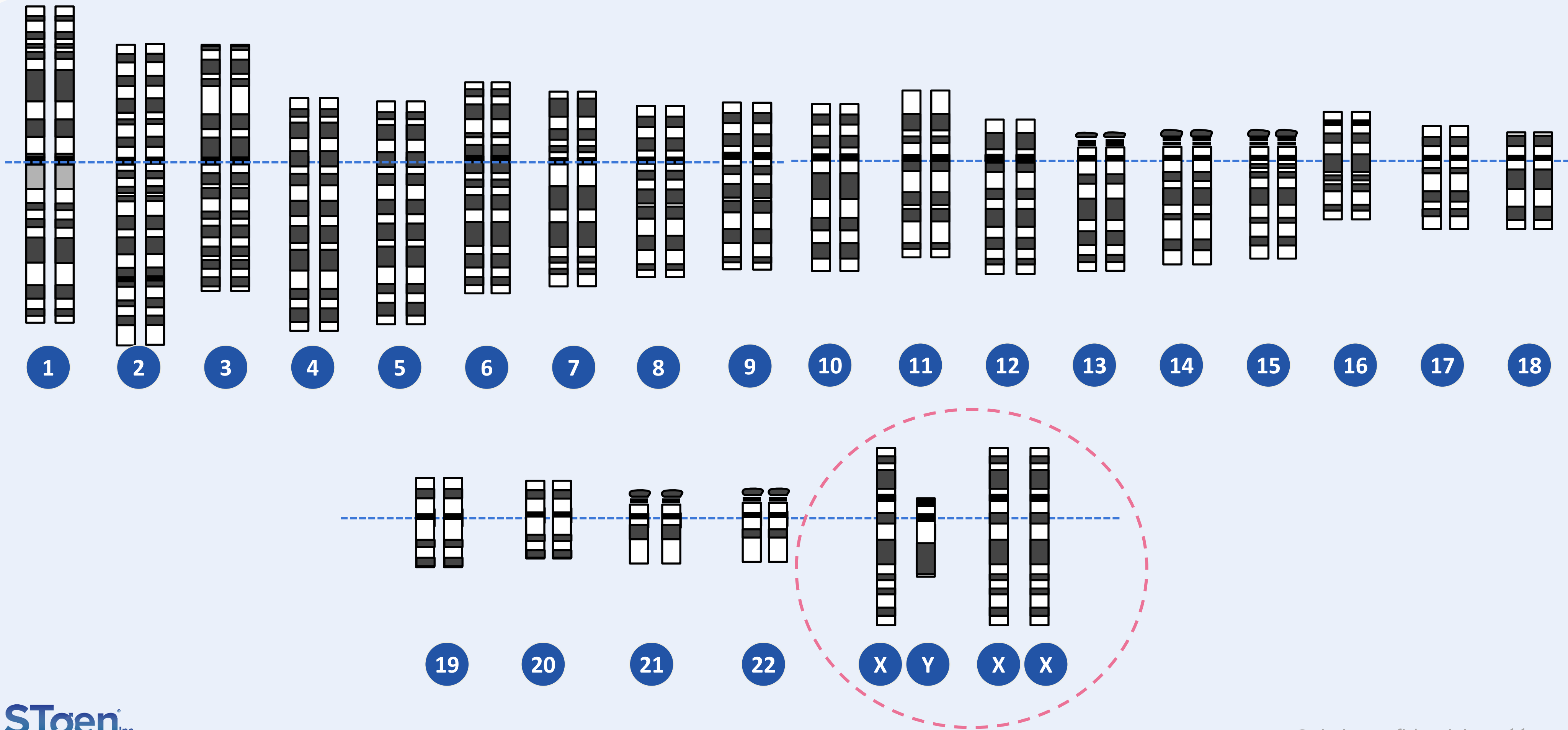


Dr. Larry Johnson and Glenn Welch Setting up the Modified Coulter EPICS® V

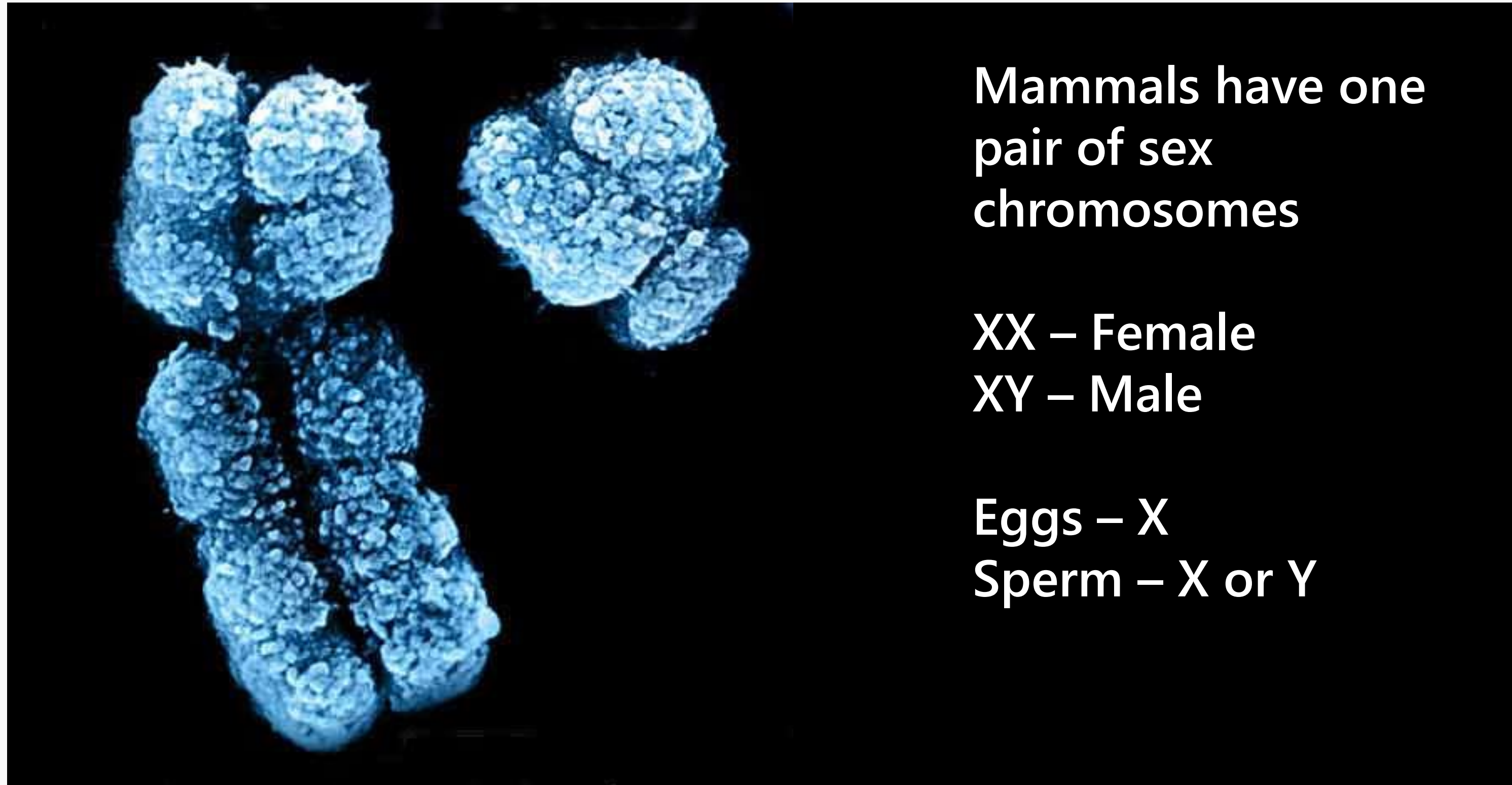


**First Instrument to sort Chinchilla Sperm Nuclei
(7.5% DNA Difference) with purity above 95%**

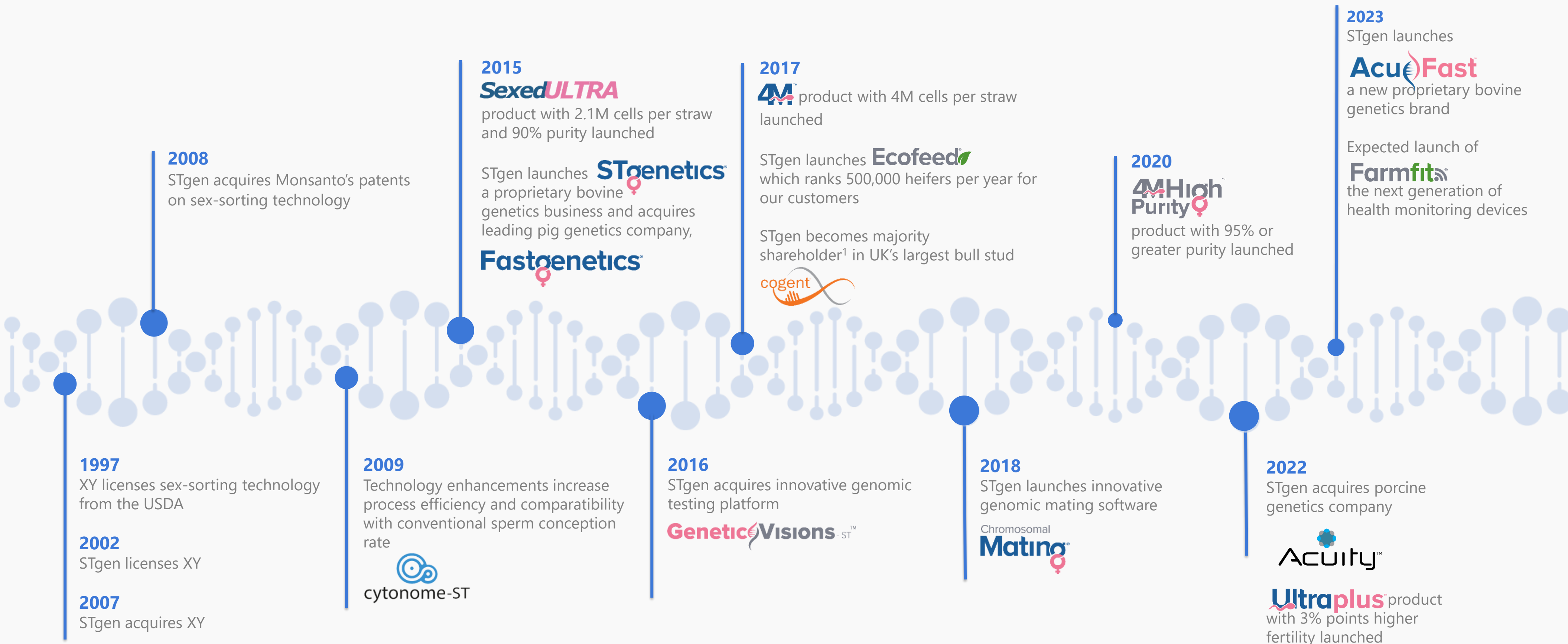
23 pairs of chromosomes



A difference in size



27 years of innovation

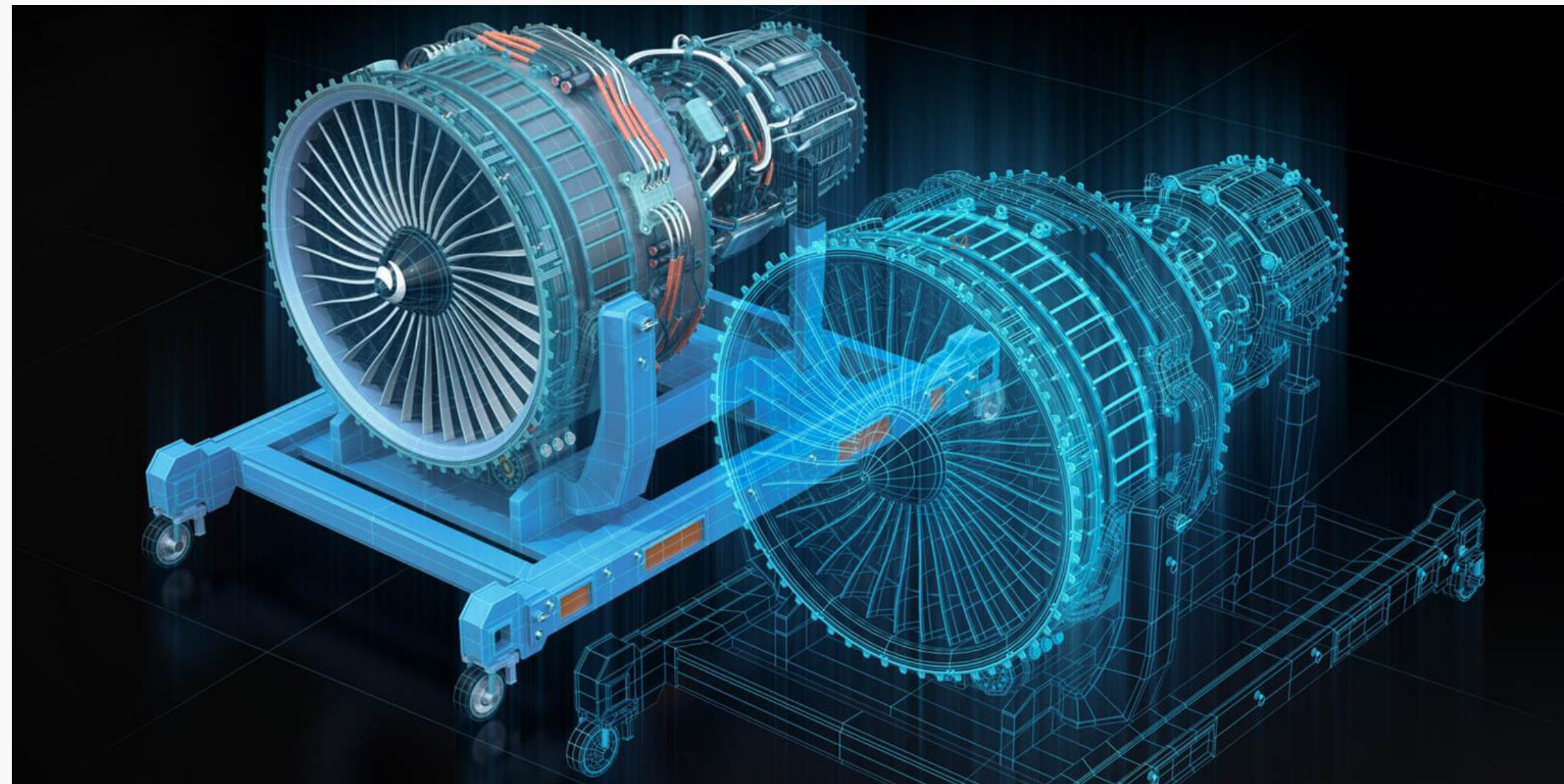


¹ STgen acquired the remaining 24% of Cogent Breeding Limited in October 2018.

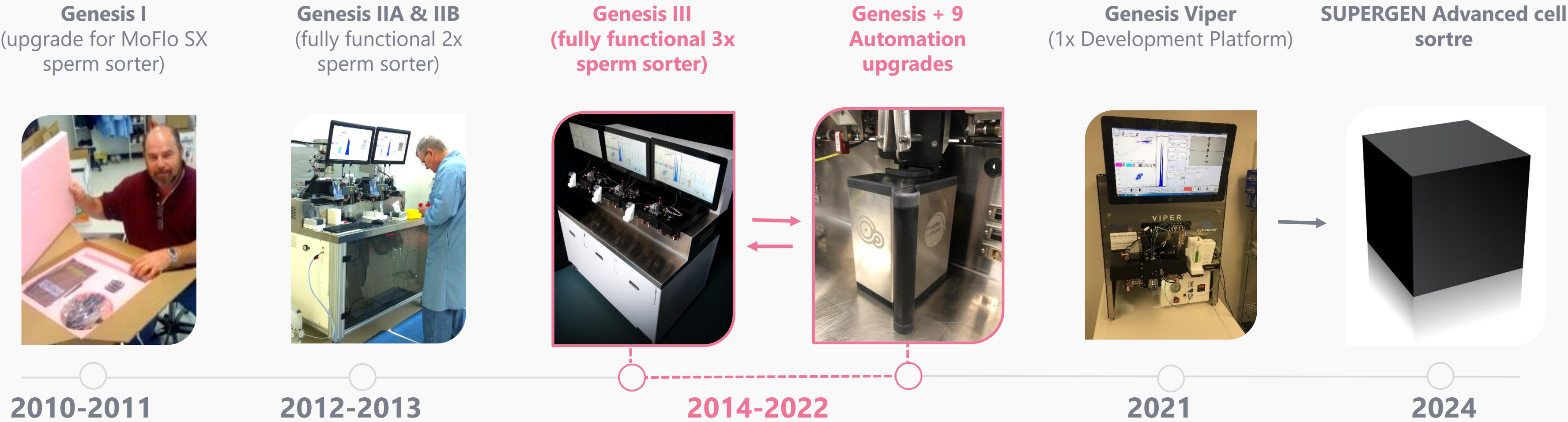
What is a Digital Twin?

It helps in predicting, optimizing, and improving decision making.

It has revolutionized the industrial world, particularly the manufacturing industry, construction and healthcare sector, smart cities, and energy industry.



Evolution of Genesis sperm sorter platform

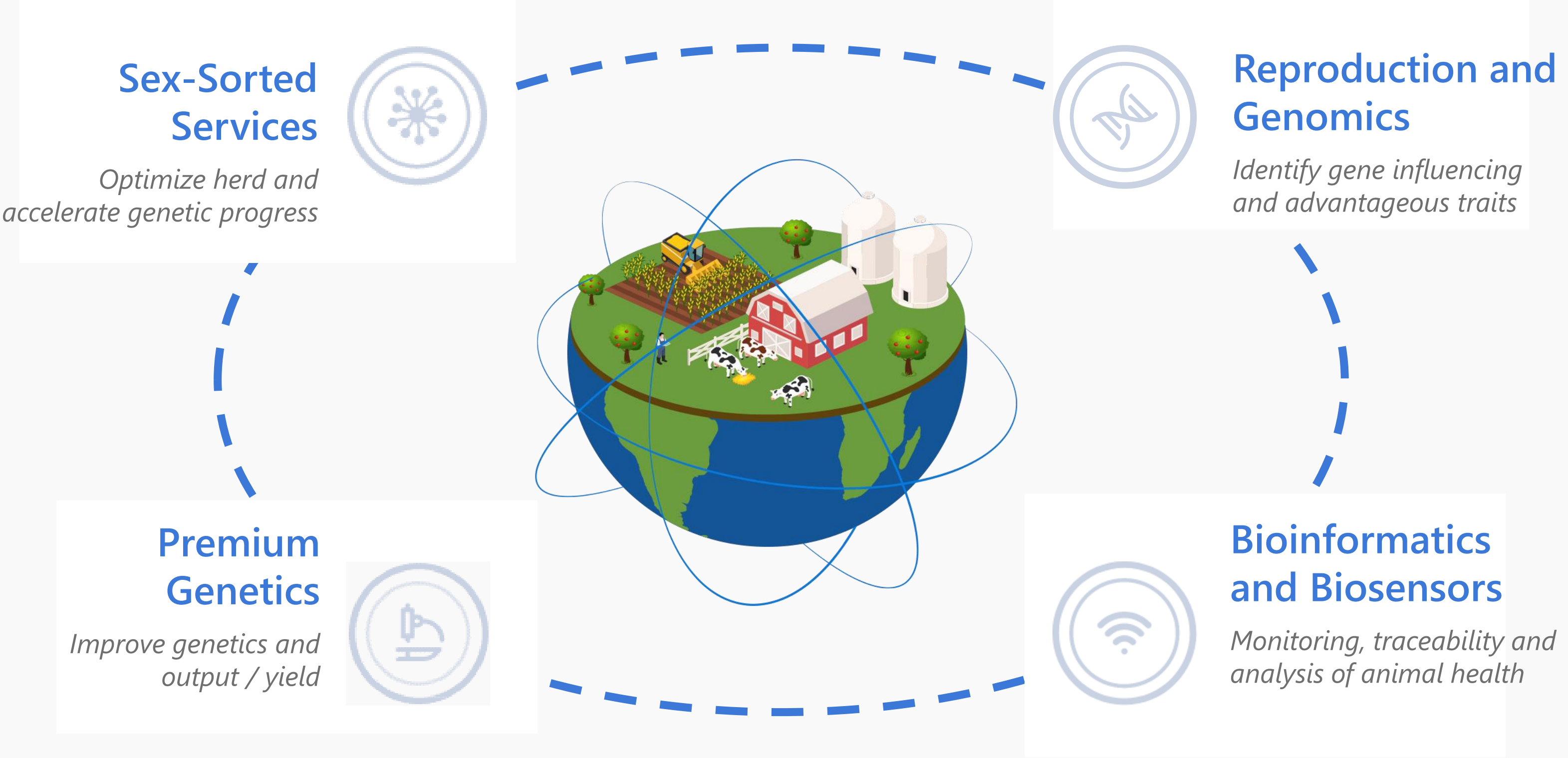


Sperm sorter platform impact on production lab scale





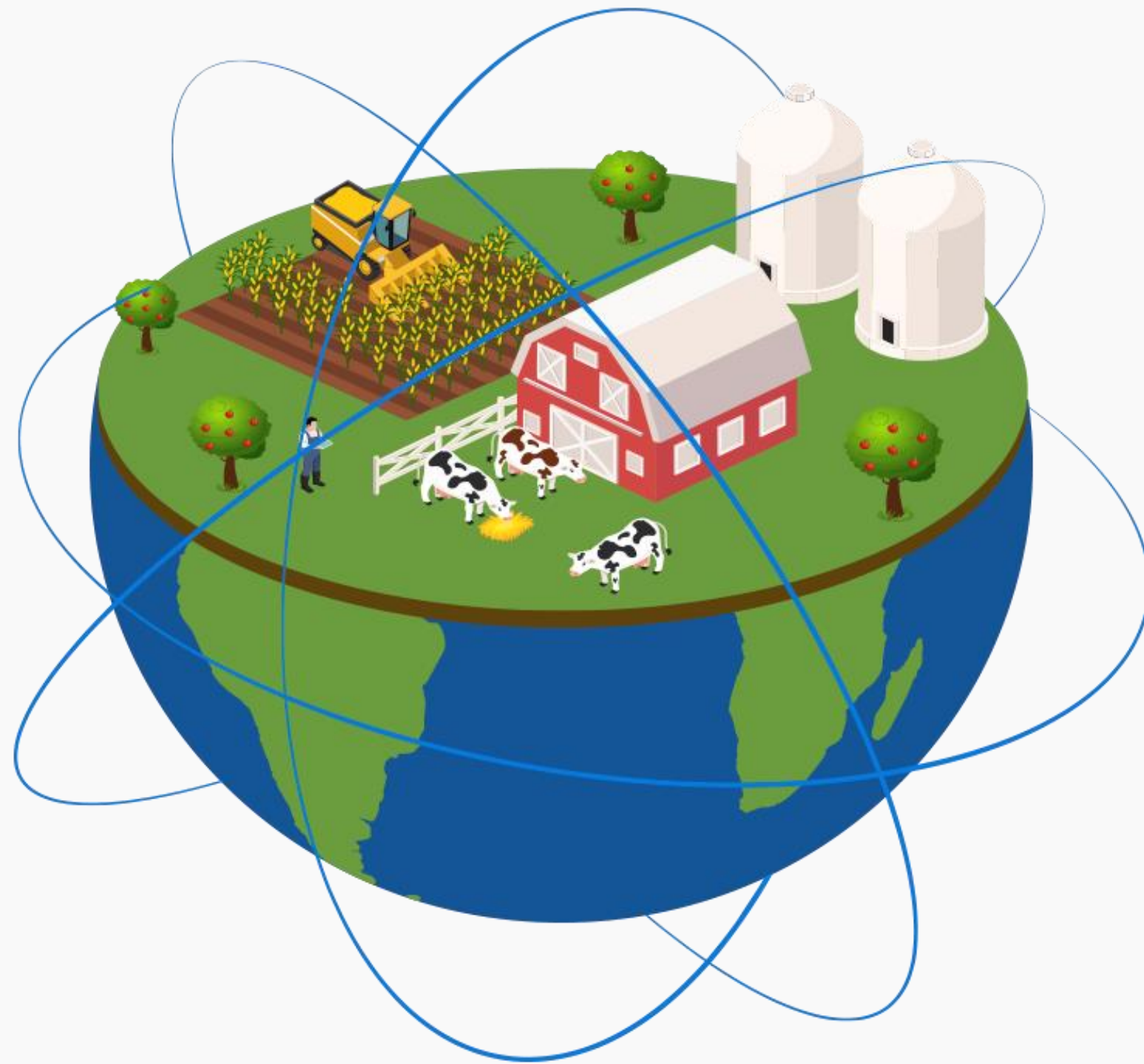
Our core technologies





Reproduction and Genomics

Identify gene influencing and advantageous traits



THE SOLUTION :

- * ACCELERATED GENETIC IMPROVEMENT**

- * ARTIFITIAL INSEMINATION IS THE MAGIC DELIVERY SYSTEM**

Significant improvements can be made: USA Broiler Performance

Year	Days to Market	Market Weight (lbs.)	Feed Conversion	Mortality (%)
1950	70	3.08	3.0	8.0
1975	56	3.76	2.1	5.0
2000	47	5.03	1.9	5.0
2021	47	6.46	1.67	5.3

Source: National Chicken Council

1957 vs. 2001 Feed in 2001

1957

ACRBC Males - 2001 Feed



2001

Ross Males - 2001 Feed



Day 43

Day 57

Day 71

Day 85

Source: Havenstein - http://www.lohmann-information.com/vol41_art5.html

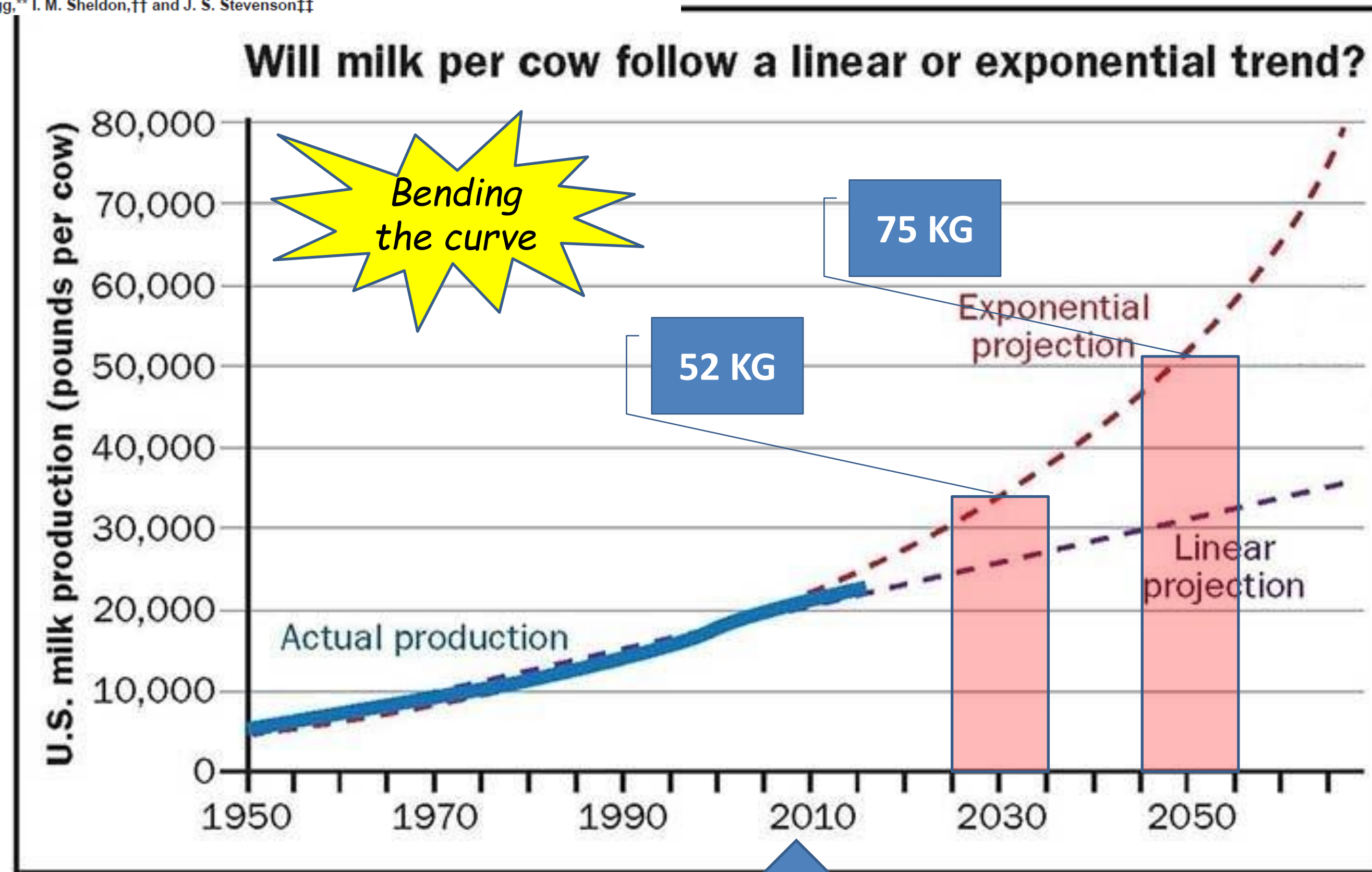
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$$\frac{\text{Selection Accuracy} \times \text{Genetic Variability} \times \text{Selection Intensity}}{\text{Generation Interval}}$$



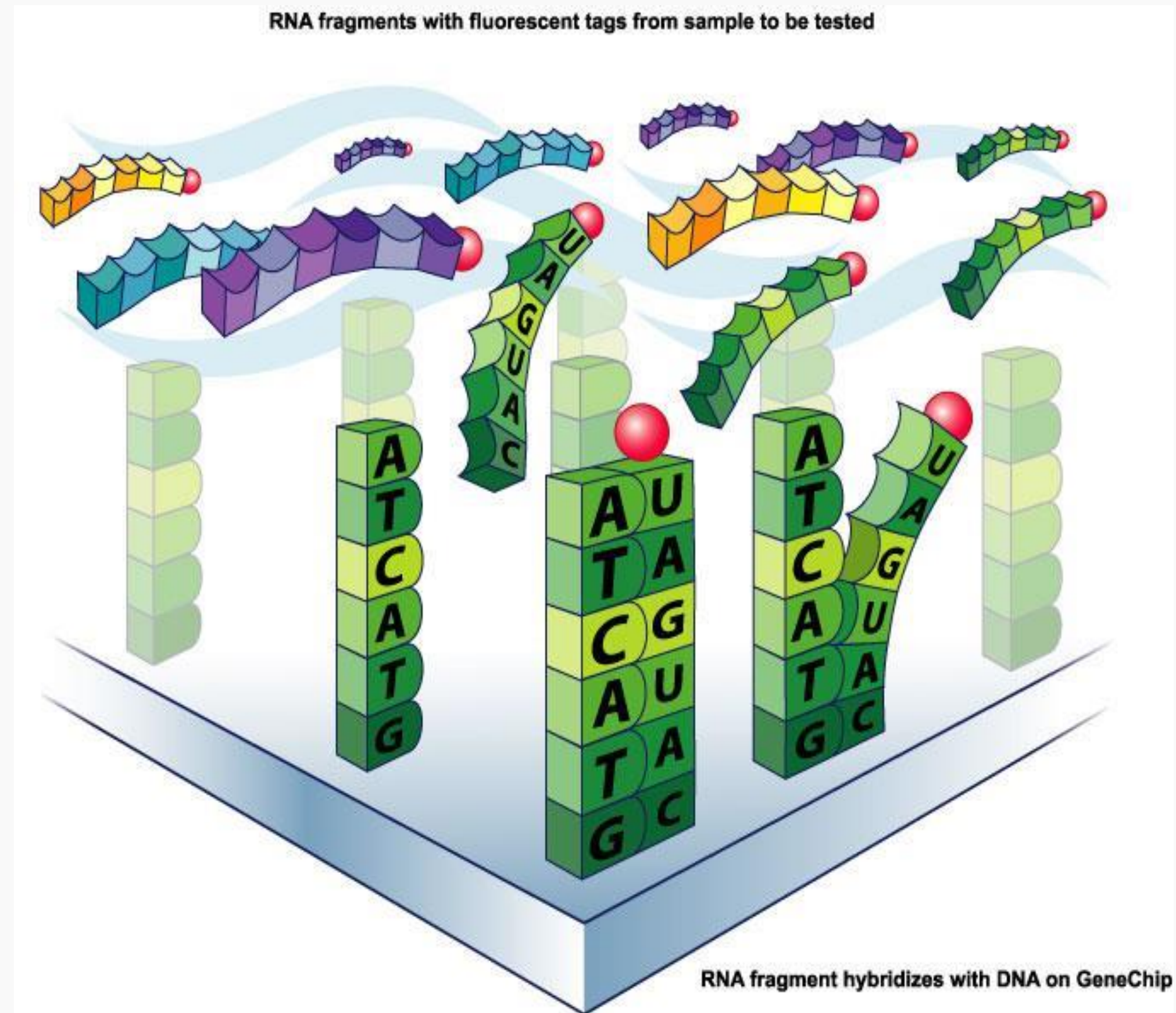
**Invited review: Learning from the future—A vision
for dairy farms and cows in 2067**

J. H. Britt,^{*1} R. A. Cushman,[†] C. D. Dechow,[‡] H. Dobson,[§] P. Humblot,[#] M. F. Hutjens,^{||} G. A. Jones,[¶]
P. S. Ruegg,^{**} I. M. Sheldon,^{††} and J. S. Stevenson^{‡‡}



THE BOVINE GENOME

And the OMICS era: GenOMICS, NutriNNOMICS, MetaboIOMICS, PhenOMICS



Label probe sequence hybridize to target DNA segments

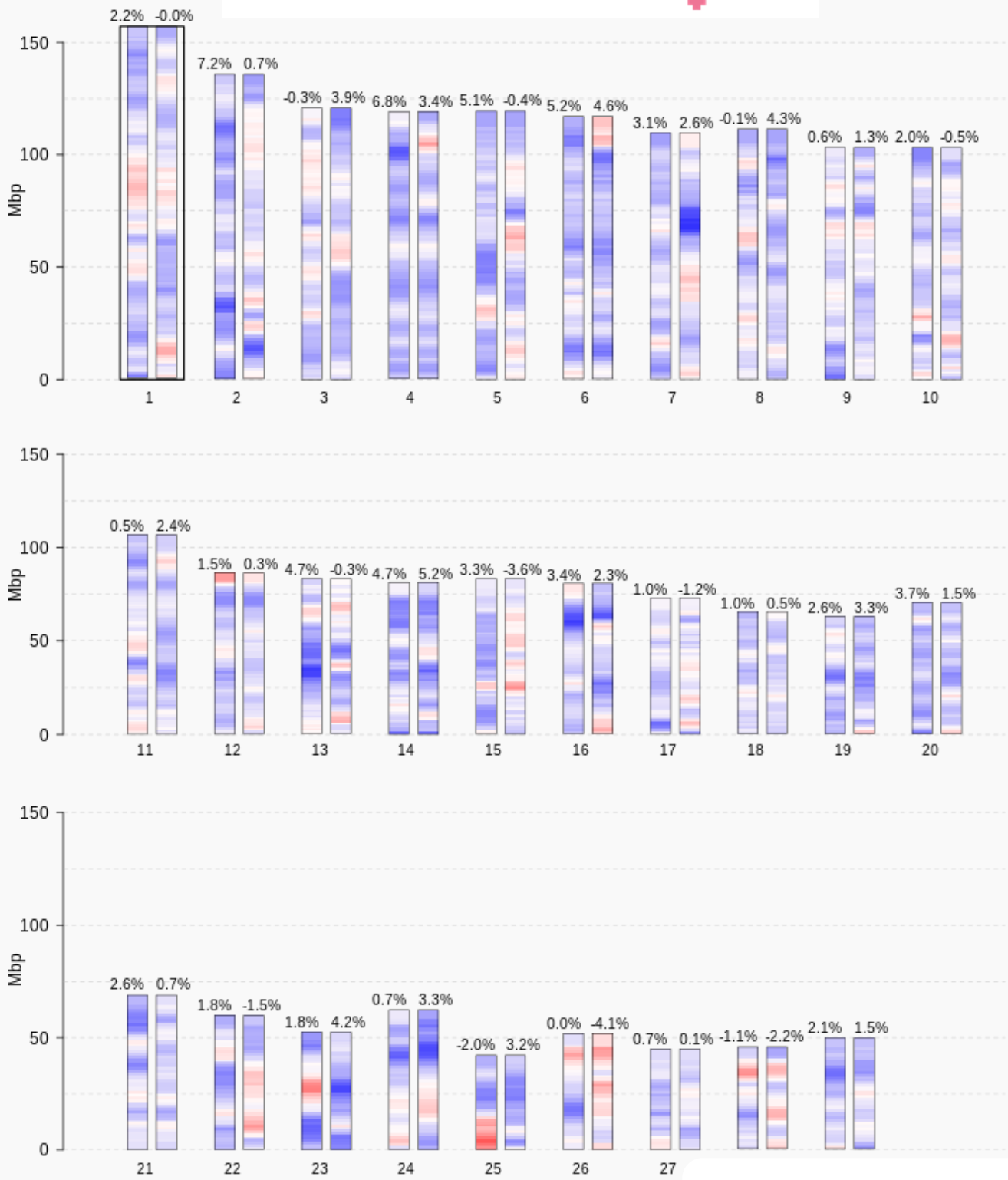
Molecular breeding approaches

Genetic VisionsTM-ST



DNA sequencing technology

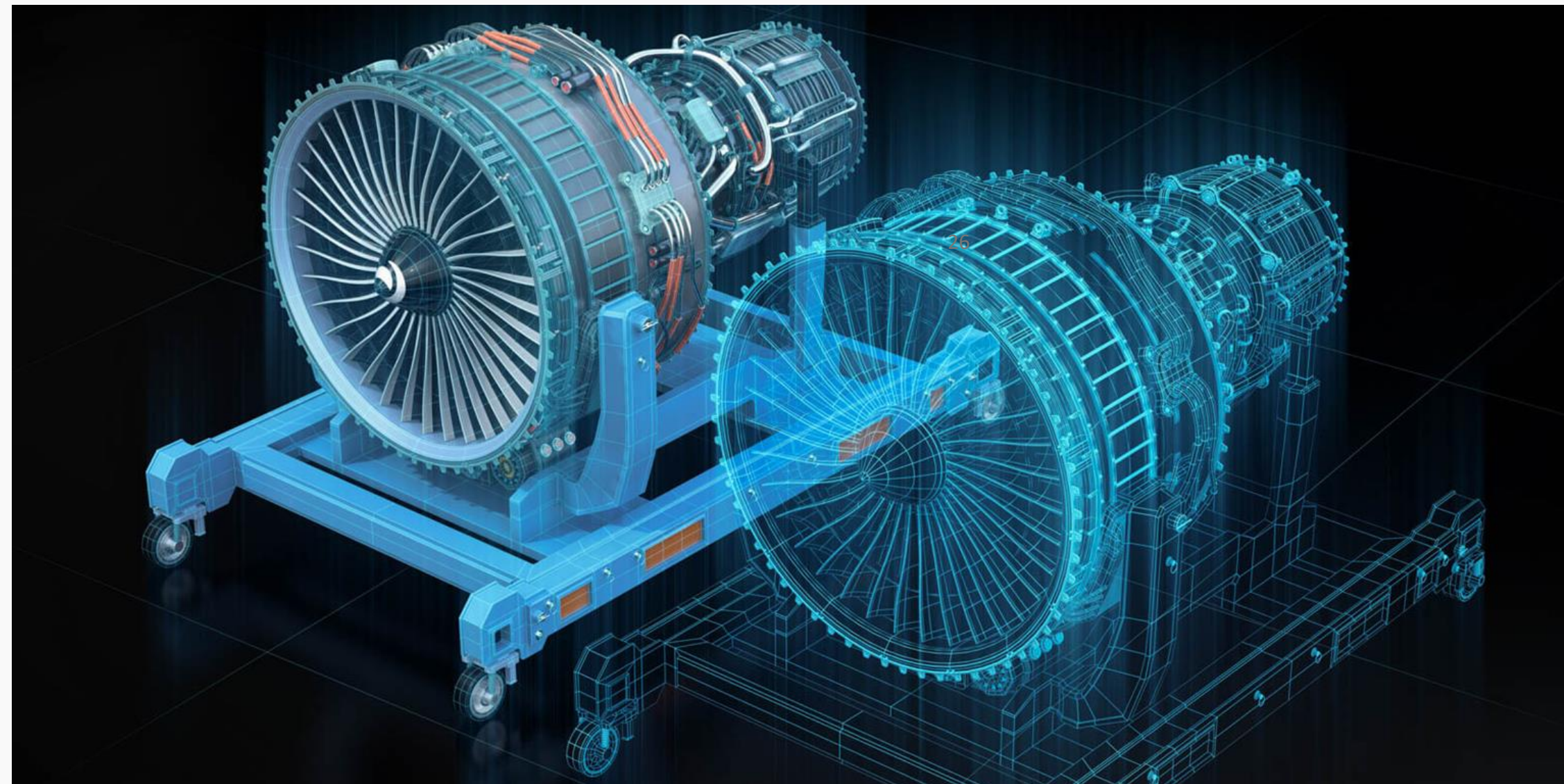
Chromosomal Painting



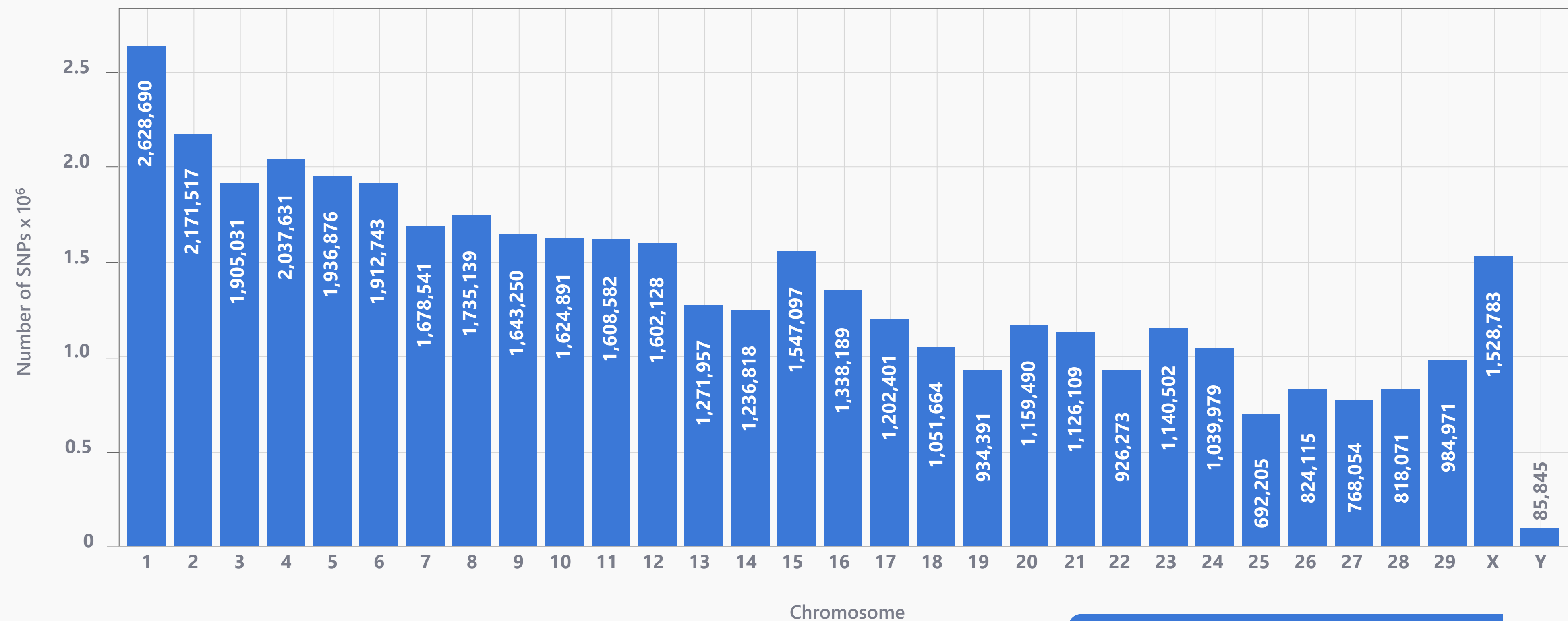
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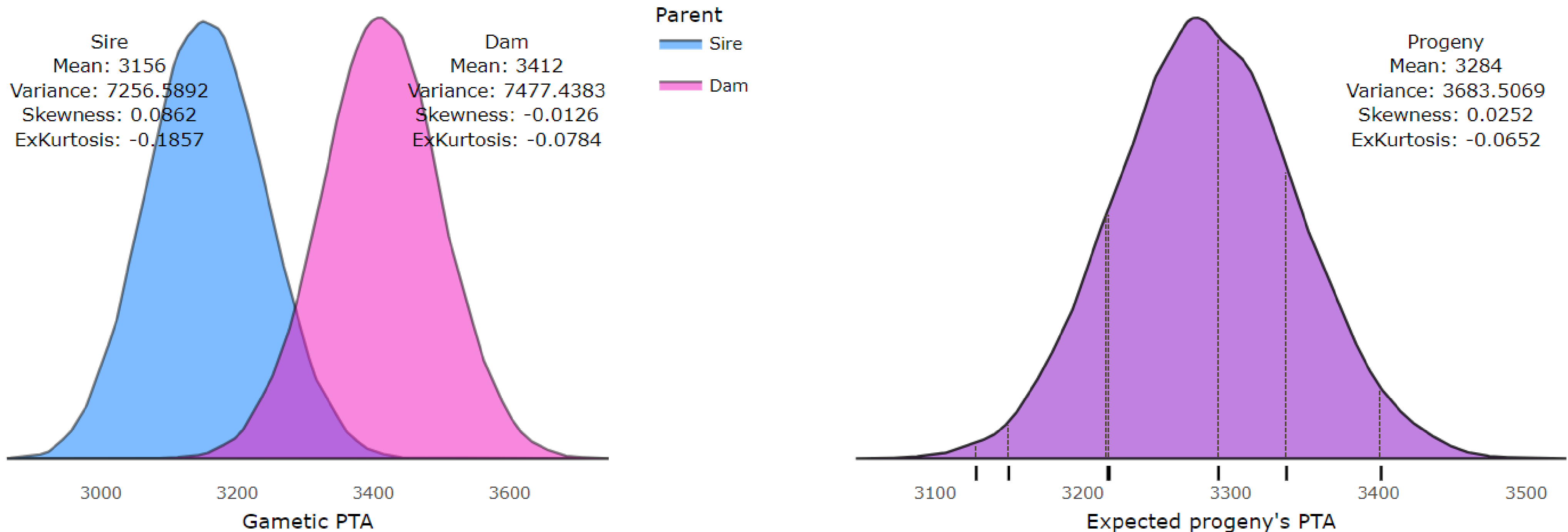
Number of Biallelic (SNPs) variants – From 80k to 40M



Total SNPs : 42,161,933

Legit x Outreach

Cow	Bull	Mean	Variance	Skewness	ExKurtosis	iMating	Probability > 3412	Relationship	ExpInbreeding
HO840003267664512	HO840003213126620	3284	3683.51	0.0252	-0.0652	3416.37	1.77%	2.80%	1.40%



STgenetics is leading the genetic race in the US

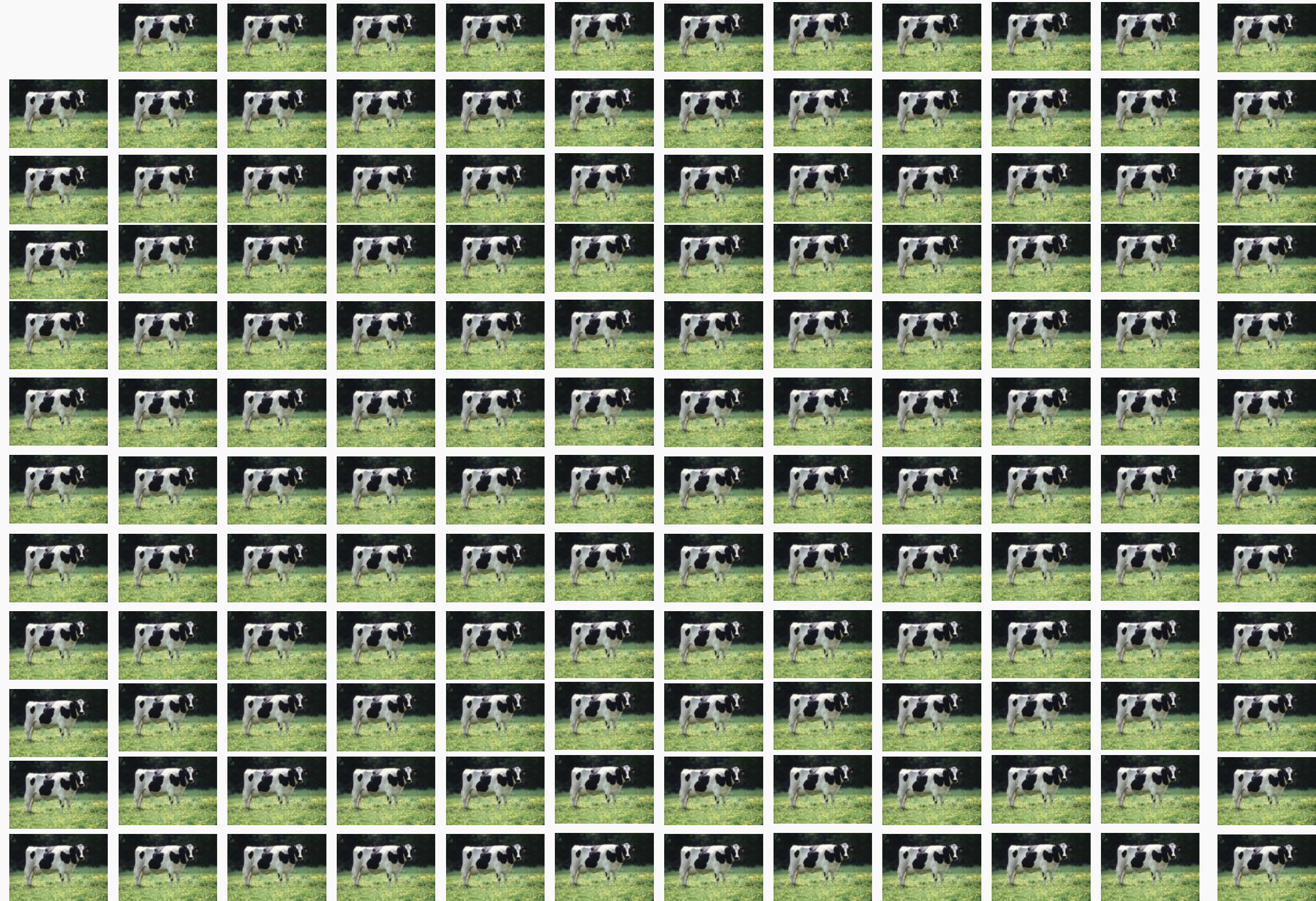
Top 100 TPI Bulls DECEMBER 2023
(Semen Status is ACTIVE or LIMITED with a minimum of 80% traditional US reliability OR 85% Genomic reliability for production and type)

Rank	Name	% RHA	NAAB	PRODUCTION					SCS	HEALTH			CONFORMATION			
				PROFAT	MILK	FE	%R			PL	%R	LIV	FI	PTAT	%R	UDC
1	GENOSOURCE CAPTAIN-ET	TR TC	99-I	551HO04119	83	150	2474	405	99	3.09	5.0	89	-0.2	0.0	1.23	99
2	FARNEAR UPSIDE-ET	TR TC	99-I	551HO04034	74	107	2336	324	99	2.81	6.7	88	2.3	1.9	0.49	95
3	LADYS-MANOR OUTCOME-ET	TR TP	99-I	551HO04343	55	102	1074	242	90	2.69	4.4	81	1.1	1.5	1.75	87
4	PLAIN-KNOLL RENEGAD TROOPER	TR TP	99-I	14HO15179	62	107	939	266	93	3.01	4.8	84	1.1	1.4	1.84	89
5	DELICIOUS CHARL HOLDON-ET	TR CD	99-I	551HO03823	69	105	2008	325	99	2.63	5.6	89	1.5	1.6	0.54	94

U.S. Registered Holsteins Genetic Improvement Project		High Ranking TPI® Genomic Young Bulls		DECEMBER 2023	
Bulls with no daughters in their genomic proofs for Production or Type. No requirement for semen status.		GTPP is a service mark of Holstein Association USA, Inc. ©2023			
Registration Number	Name	Resender	NAAB code	Birth Date	%
H08400032852379	CD THORSON RIPCORDER-ET	SexTech	551HO05796	2304	12.4
H0840003289404796	PEAK	SexTech	551HO05796	2305	11.7
H0840003280127205	GENOSOURCE BONJOUR-ET	SexTech	551HO05400	2301	11.9
H08400032874964523	CD THORSON DARTH VADER-ET	SexTech	551HO05496	2301	11.9
H0840003289893910	GENOSOURCE YESTERDAY-ET	INSEME		2305	11.7
H0840003289891131	GENOSOURCE YOUNGTONSAY-ET	SexTech		2307	11.7
H0840003289898004	GENOSOURCE SWEETDREAMS-ET	SexTech		2305	12.1
H0840003252543668	SS18SIEMERS	SexTech	551HO05969	2308	11.5
H0840003244009025	GENOSOURCE MILE HIGH-ET	SexTech	551HO05905	2302	11.9
H0840003287995541	CD THORSON MOPSY 215SET	SexTech	551HO05796	2304	12.0
H0840003253630302	S-S-I SHEEPSTER MCAN-ET	SexTech	007HO17191	2305	11.5
H0840003244009253	GENOSOURCE UMPIRE-ET	SexTech	551HO05427	2302	11.6
H0840003287420736	SIEMERS PAROLET	SexTech		2309	11.3
H0840003252569696	BEYOND OVERDO HARDIN-ET	SexTech	250HO16741	2210	12.3
H0840003289195272		SexTech		2306	11.0
H0840003287428291	BEYOND HILEVE-ET	SexTech		2305	11.6
H0840003273124054	CD OUTREACH RADIOACTIVE-ET	SexTech		2309	12.0
H0840003280127375	GENOSOURCE MONTY-ET	SexTech		2302	11.1
H0840003289891950	GENOSOURCE INYOURDREAMS-ET	SexTech		2310	11.7
H0840003258825018	CD MAGNI THORSON-ET	SexTech	551HO05981	2301	12.3
H0840003280127434	GENOSOURCE BROACH-ET	SexTech		2302	11.3
H0840003272648810	SS18SIEMERS	SexTech		2309	12.3
H0840003289893996	GENOSOURCE JAVELIN-ET	SexTech		2310	11.8
H0840003289890748	GENOSOURCE JET FUEL-ET	SexTech	551HO05525	2304	11.3
H0840003289198629		SexTech		2307	11.4
H0840003289893924	GENOSOURCE MICROB-ET	SexTech		2309	11.8
H0840003289891014	GENOSOURCE MASTROET	SexTech		2307	11.9
H0840003281933446	SS18SIEMERS	SexTech		2307	11.7
H084000326343361	PEAK 2638-ET	PEAK		2307	11.9
H0840003251595200	PEAK 80989-ET	PEAK		2307	11.4
H0840003263337367	PEAK TRAILBLAZE-ET	PEAK		2306	12.2
H0840003271807514	AURORA 1348	SexTech		2309	11.2
H0840003244009263	GENOSOURCE YAHTZEE-ET	SexTech	551HO05431	2302	11.3
H0840003252543675	SS18SIEMERS 42862	SexTech		2309	11.9
H0840003267429252	SS18SIEMERS 42862	SexTech		2307	11.6
H0840003267420141	SS18SIEMERS 42861	SexTech		2310	11.5
H0840003280123039	GENOSOURCE MIDPOINT-ET	INSEME		2305	12.8
H0840003263337365	PEAK 4024-ET	PEAK		2307	12.5
H0840003272638067	K-S-DAR TRADEMARK-ET	SexTech		2309	12.0
H0840003289891205	GENOSOURCE UNIT-ET	SexTech		2309	11.5
H0840003280127462	GENOSOURCE JIGSAW	SexTech		2302	11.3
H0840003289890965	GENOSOURCE DRIZZLE-ET	SexTech	551HO05696	2308	11.3
H0840003252562621	CD FUGLEMAN RADICAL-ET	SexTech	551HO05039	2306	11.5
H0840003263337318	PEAK CHALTAINSPIRE-ET	PEAK	011HO19844	2302	11.8
H0840003247901703	PEAK-S-I SHEEPSTER 1205-ET	SexTech		2305	12.0
H0840003267901952	KENYON-HILL SHEEP DZARK-ET	SexTech		2307	11.2
H0840003254226900	COOKECUTTER SHEEP 91990-ET	SexTech		2306	11.3
H0840003267801970	KENYON-HILL RSACH OAKS-ET	SexTech		2308	11.7
H0840003272455275	PEAK 8191-ET	PEAK		2309	12.8
H0840003150459212	JC-KOW 184	SexTech		2309	11.4
H0840003267429274	SS18SIEMERS 42864	SexTech		2309	11.8
H0840003275732777	DENOV 22123 BILLINGS-ET	ABS	028HO21698	2308	12.2
H0840003250259264	PEAK CASMRO-ET	PEAK	011HO19850	2309	12.2
H0840003250151519	LADYS-MANOR SMOKE OWEN-ET	SexTech	230HO12966	2205	11.2
H0840003289891401	GENOSOURCE YACHTSMAN-ET	SexTech		2310	11.6
H0840003244007601	GENOSOURCE BREAKAGE-ET	SexTech	551HO05298	2309	11.9
H0840003244003041	GENOSOURCE ENDURANCE-ET	SexTech	551HO05296	2211	11.4
H0840003247634485	KINGS-RANSOME DENYME-ET	SexTech		2307	12.4
H0840003252544104		SexTech		2301	11.3
H0840003289404988	PEAK 8251-ET	SexTech		2307	12.3
H0840003289890819	GENOSOURCE BREAKTIME-ET	SexTech		2305	11.6
H0840003252544034		SexTech		2301	11.2
H0840003244003034	DELICIOUS DURATION-ET	SexTech	551HO02645	2211	11.3
H0840003257633319		SexTech		2217	11.7
H0840003244007411	GENOSOURCE JAYLON-ET	SexTech	551HO05302	2209	11.2
H0840003263433651	PEAK 2626-ET	PEAK		2307	12.6
H0840003267429995	SS18SIEMERS 43805	SexTech		2310	11.8
H0840003289404443	PEAK PRIMER-ET	PEAK		2303	12.6
H0840003289893935	GENOSOURCE DOMINO-ET	INSEME		2306	11.8
H0840003289893975	GENOSOURCE MEGALADON-ET	INSEME		2310	10.9
H0840003289893965	GENOSOURCE MIDGA TE-ET	INSEME		2308	11.9
H0840003272318191		SexTech		2310	10.5
H0840003249998910	GENOSOURCE ELLISON-ET	SexTech	551HO05958	2203	11.4
H0840003261933118	SS18SIEMERS	SexTech		2305	11.8
H0840003252562674	S-S-I EARLY BIRD SUNDANCE-ET	SexTech		2205	11.3
H0840003257573226	SANDY VALLEY 40126	SexTech		2212	11.2
H0840003289894616		SexTech		2310	11.2
H0840003250769326	SANDY VALLEY ESCAPATIVE-ET	SexTech	200HO12861	2211	11.6
H0840003280127396	GENOSOURCE BELLHOP-ET	SexTech		2302	11.8
H0840003289891925		SexTech		2307	11.2
H0840003289891359		SexTech		2310	12.3
H0840003289891411	GENOSOURCE JORIAN-ET	SexTech		2310	12.1
H0840003289894047	GENOSOURCE SMOKE SHOW-ET	SexTech		2310	11.6
H0840003250267390	PINE-TREE OLY-ET	HO		2305	12.3
H084000325175904		SexTech		2310	11.8
H0840003257573143	SANDY VALLEY SATURDAY-ET	SexTech	230HO12863	2211	11.4
H0840003263763478		SexTech		2310	11.4
H0840003220640888	CLEAR ECHO PERKY 1906-ET	SexTech		2309	11.4
H0840003244007263		SexTech		2307	11.6
H0840003257574274	SANDY VALLEY MOODYBOM-ET	SexTech		2303	11.2
H0840003280127133	GENOSOURCE DRUMROLLET	SexTech	551HO05397	2212	11.4
H084000327233867	CD SHEEPSTER EARNES-ET	SexTech		2308	11.7
H0840003289893765	GENOSOURCE MORRIE-ET	INSEME		2308	12.6
H084000325198074	PEAK EXCITEMENT-ET	PEAK	011HO19875	2210	11.9
H0840003263935018	BEYOND LETCHWORTH GIANT-ET	SexTech	007HO19535	2212	10.9
H0840003280127422	GENOSOURCE DANISH-ET	SexTech		2302	11.6
H0840003267429145	SS18SIEMERS 42895	SexTech		2308	12.0
H0840003267429264	SS18SIEMERS 42874	SexTech		2309	11.8
H0840003249000000	PROGENESIS ACHIEVE 7990	SexTech	200HO13015	2304	11.9
H0840003252543927	551HO05796	SexTech		2309	11.8

What is a SNP genotype worth?

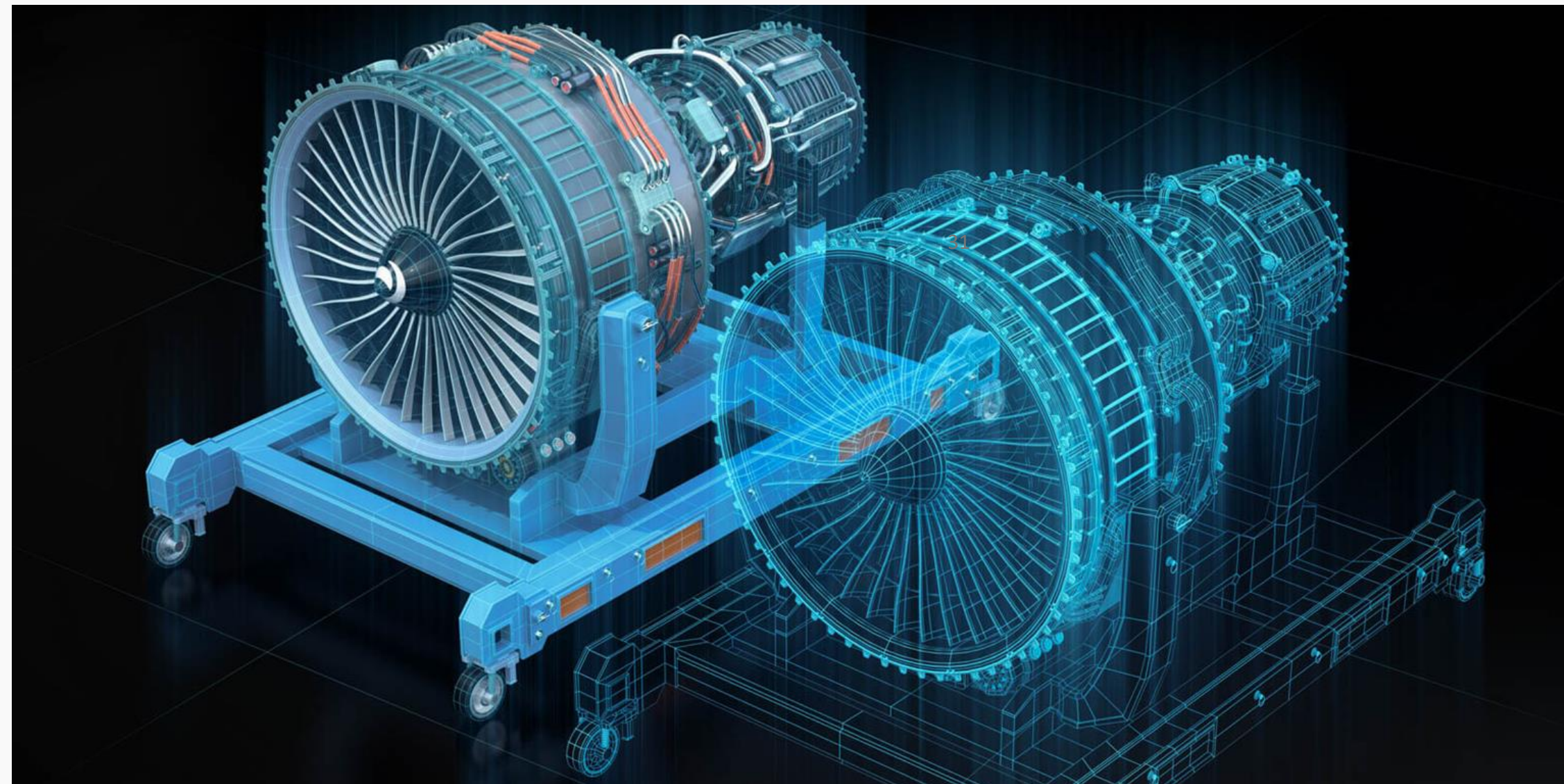
And for daughter pregnancy rate ($h^2=0.04$), SNP = **131** daughters



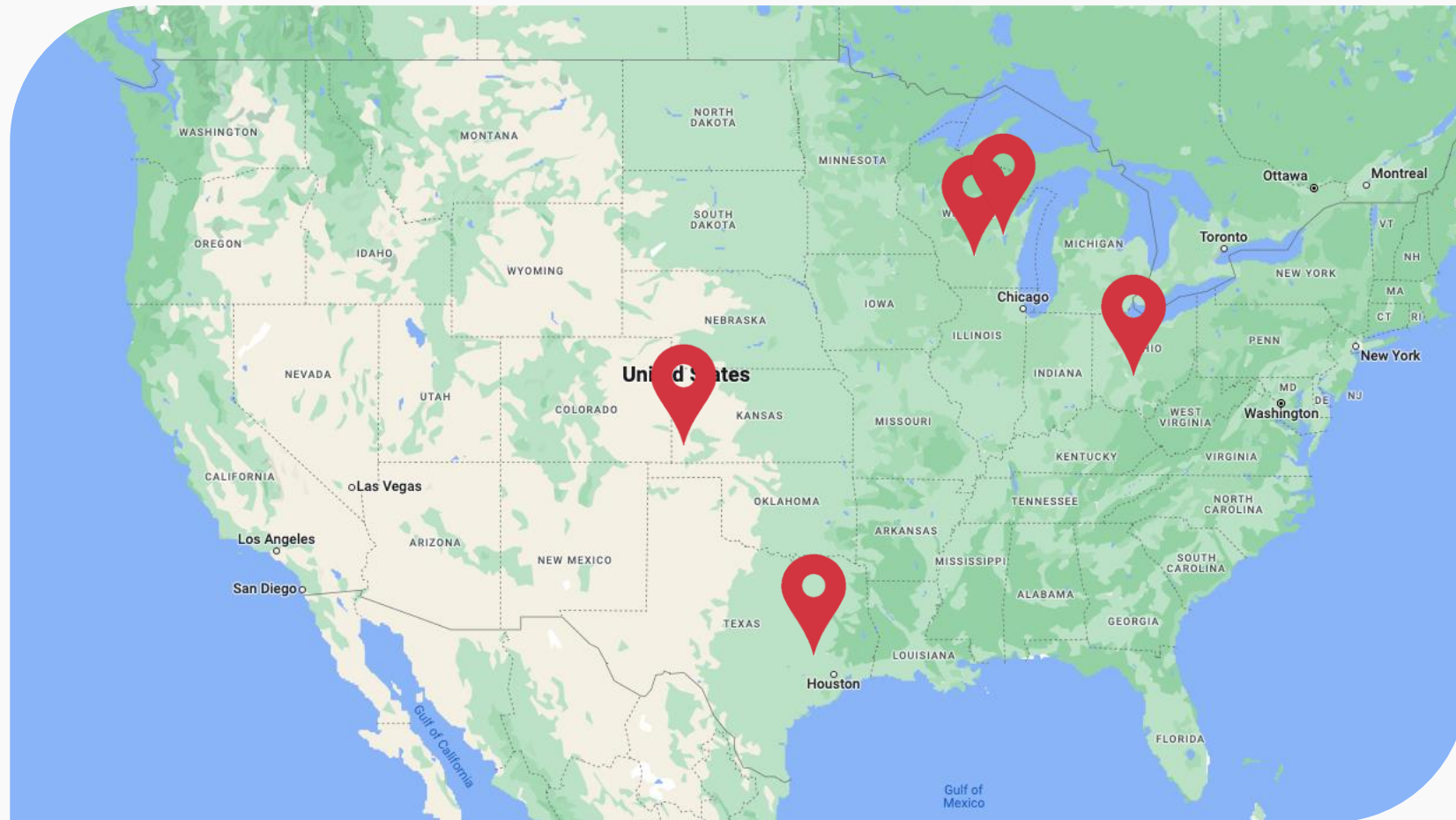
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Intensive use of ARTs in our internal genetic development program



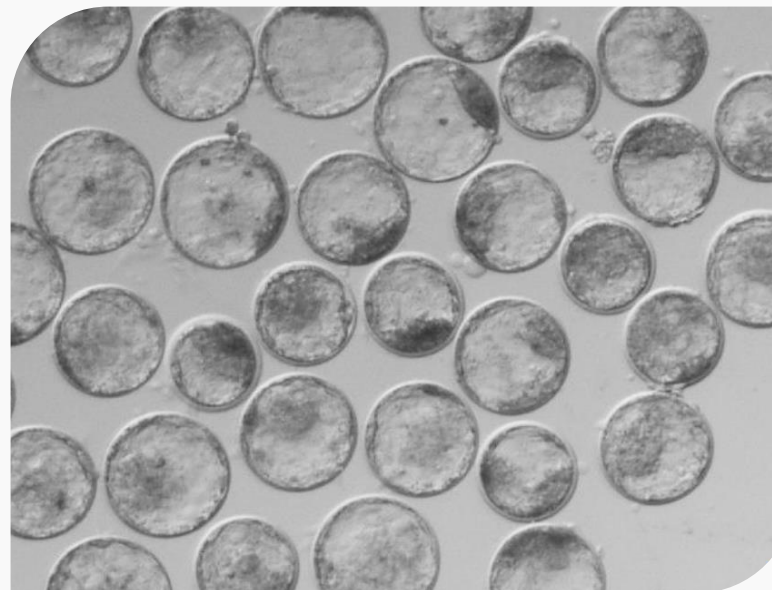
- OHC: MOET, OPU, IVP, ET, Amnio, JIVET, SCNT, ESC
- Vienna Farms: SCNT, ESC
- Navasota ET lab: MOET, OPU, IVP, ET
- Syracuse recipient farms: ET

- >60,000 IVP embryos transferred yearly
- ~1,500 SCNT embryos production capacity

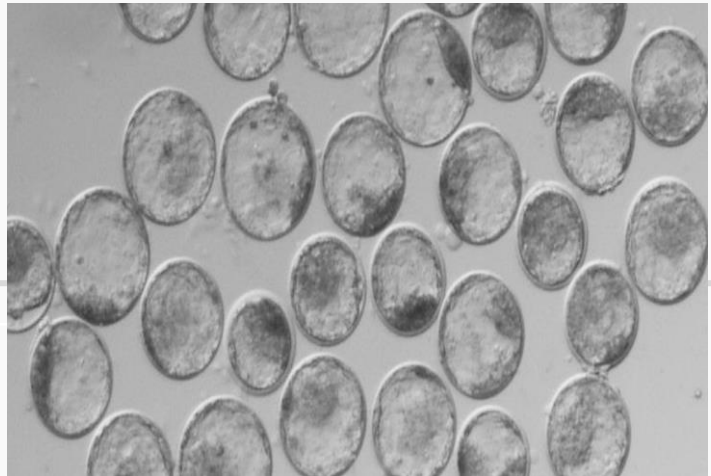
Genetic  **Visions** - STTM

STgen^{Inc.}


 **CHROMOSOMAL**[®]
MATINO

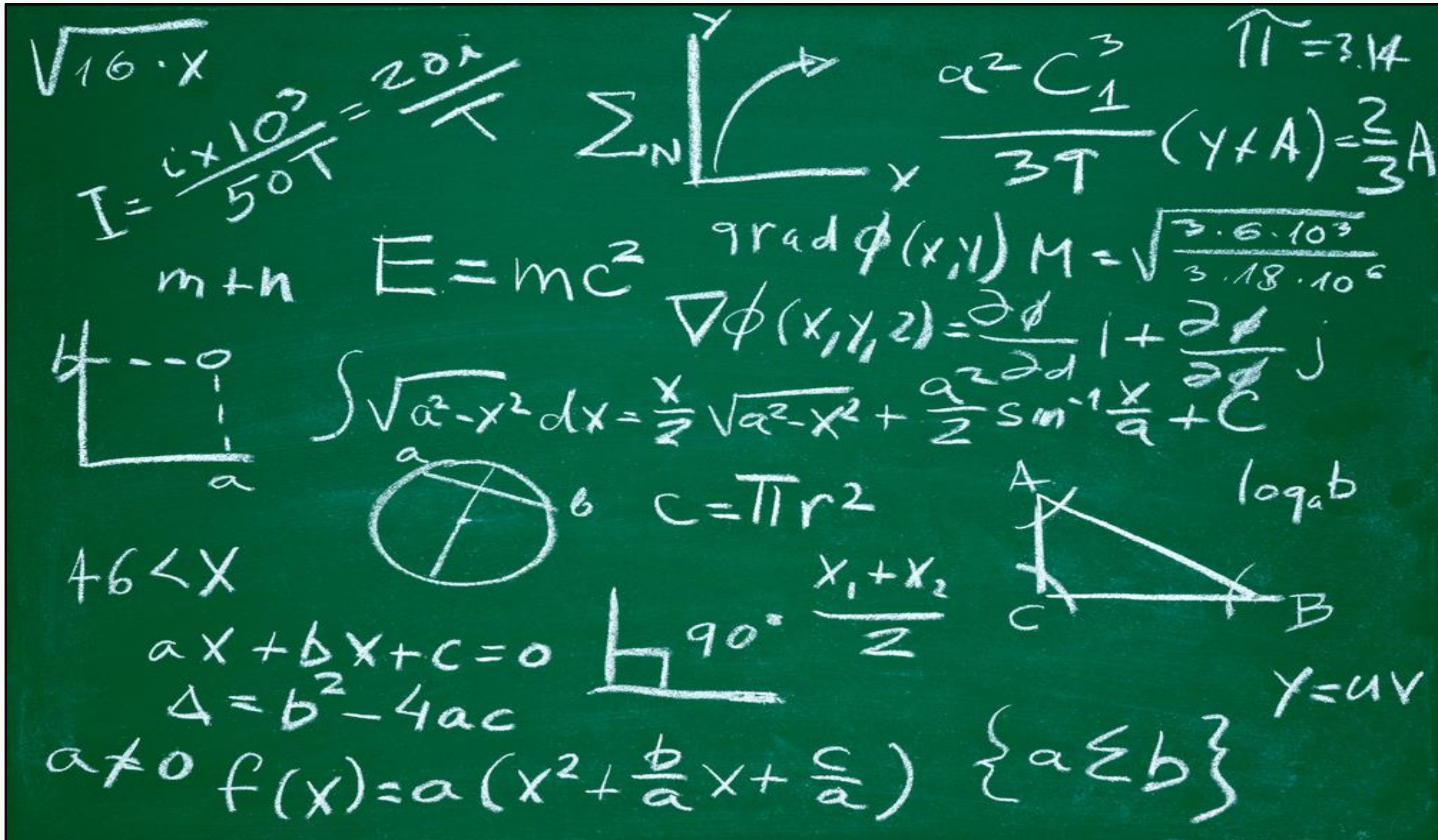
OHC New IVF laboratory - Q1-Q2 2023 Results



	OPUs	Oocytes	Cleaved embryos	Cleavage %	Embryos produced	Embryo production %	Embryos/donor
Male development	467	7,078	5,358	76%	2,872	41%	6.1
Female base	999	14,537	9524	66%	6,028	41%	6.0
JIVET	154	6,665	4,000	60%	1,578	24%	10.2
Total	1,658	28,708	19,249	67%	10,675	28%	6.4

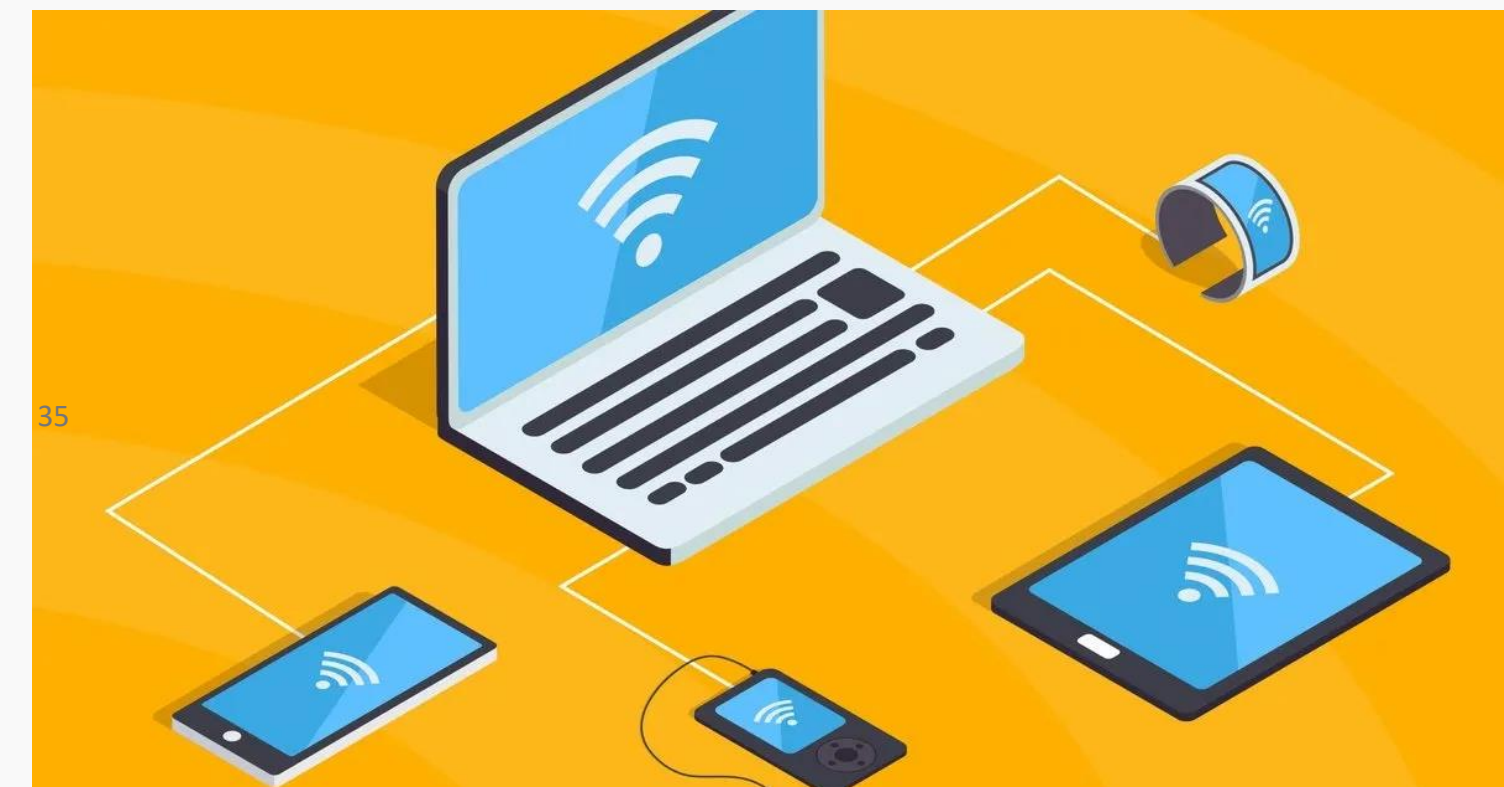
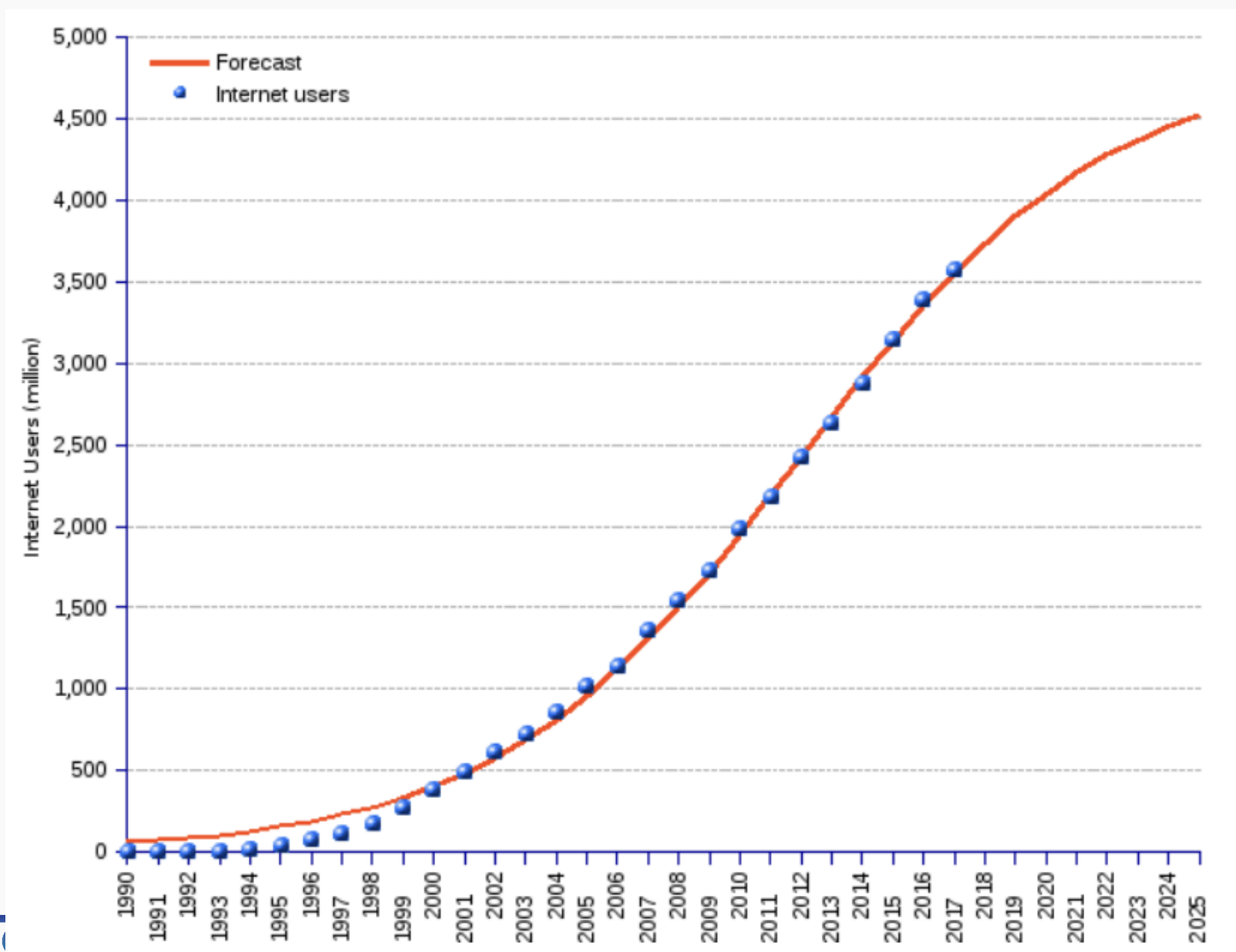


BIO-ELECTRONICS



Half the world is online & many have smart devices

- In 1990, before the first internet browser was released, less than 0.5% of the world's population was online. By 2020, more than half of the world's population used the internet.
- In 2020, it was estimated that almost 30 billion smart devices were connected via the internet.

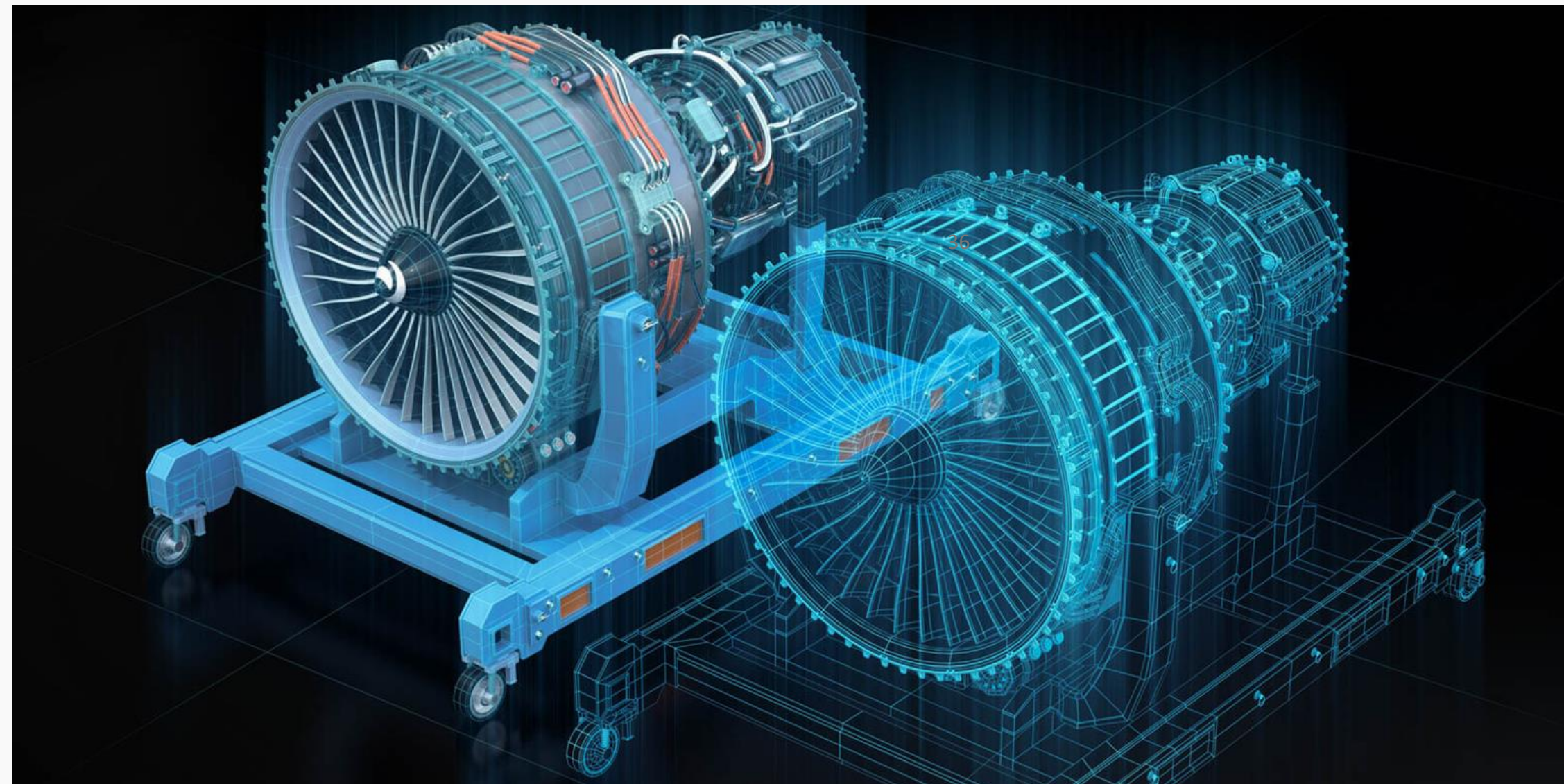


$$30 \text{ B} / 4 \text{ B} = 7.5 \text{ smart devices/person}$$

What is a Biosensor Twin?

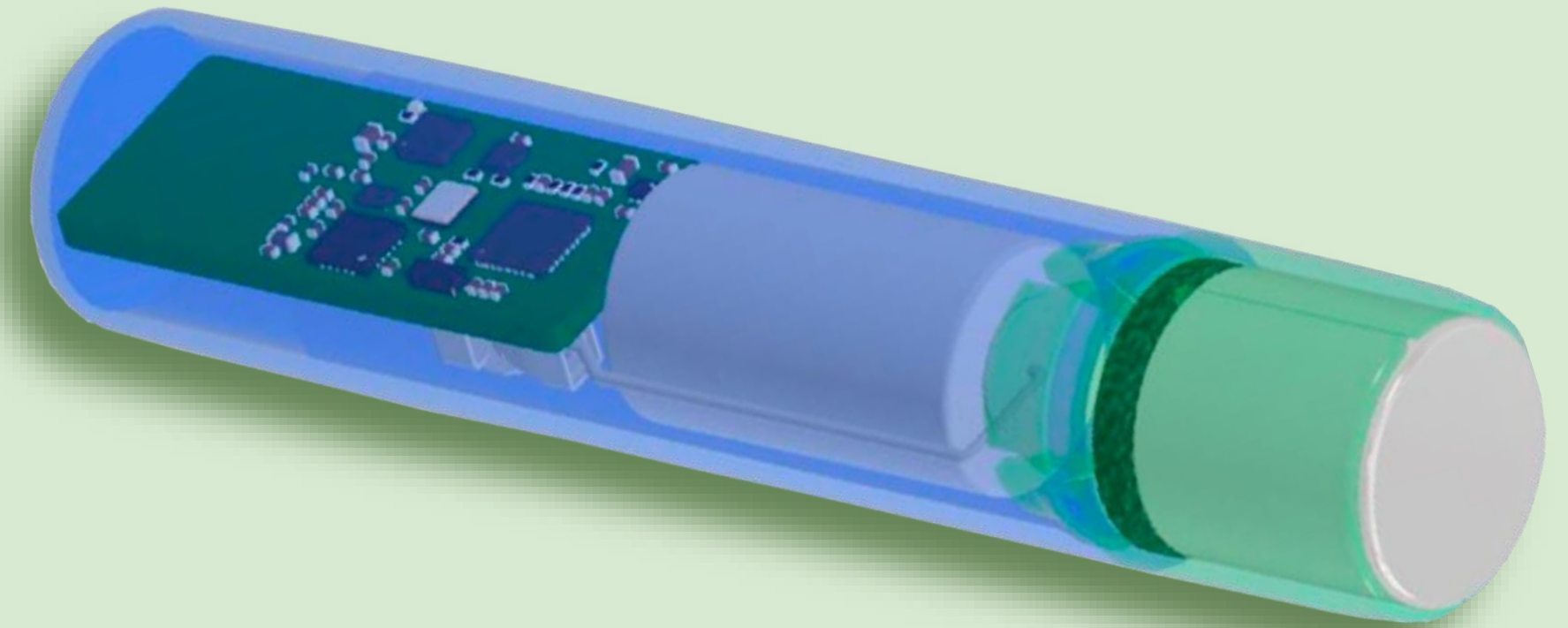
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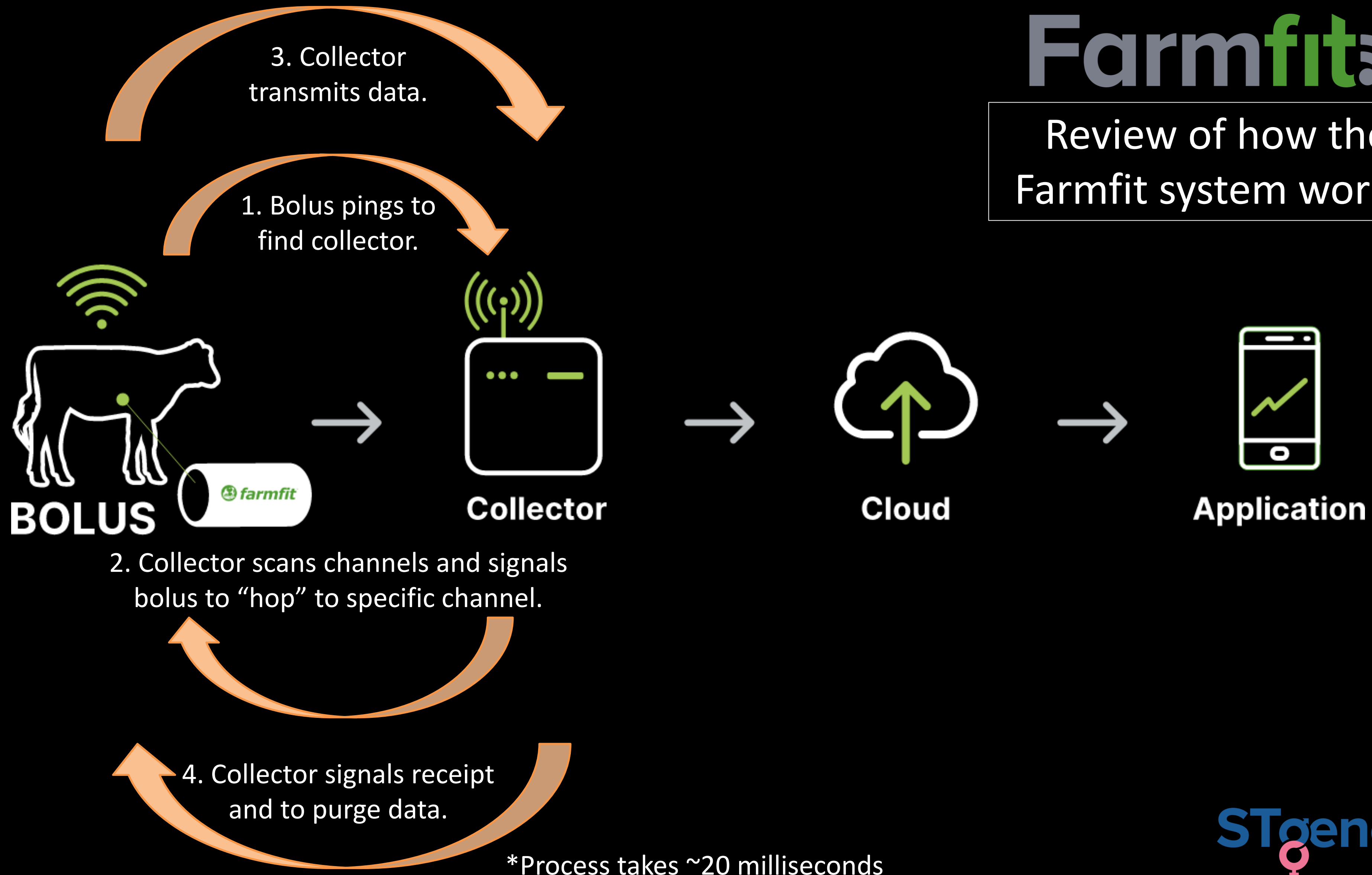


**“Cradle to Grave”
design enables
value creation
across lifetime of
animal**



- Calf sized unit
- 5 Year Battery
- One product for both calves and cows
- Magnet included
- Temperature and Activity
- Designed specifically for automated assembly of product

Review of how the Farmfit system works.





Farmfit benefits to users

- **Health Monitoring** for All Individual Animals
- **Full Traceability** from Birth
- **Labor Optimization**

We are saving lives!

Animal Information

Ear Tag: 98836

Barn: Auto Barn North

Pen: 551

Breed: HO

Calf

Active

General Weight Health Birth Information Reproduction Physical Exam Pen History Animal Timeline

Last Week

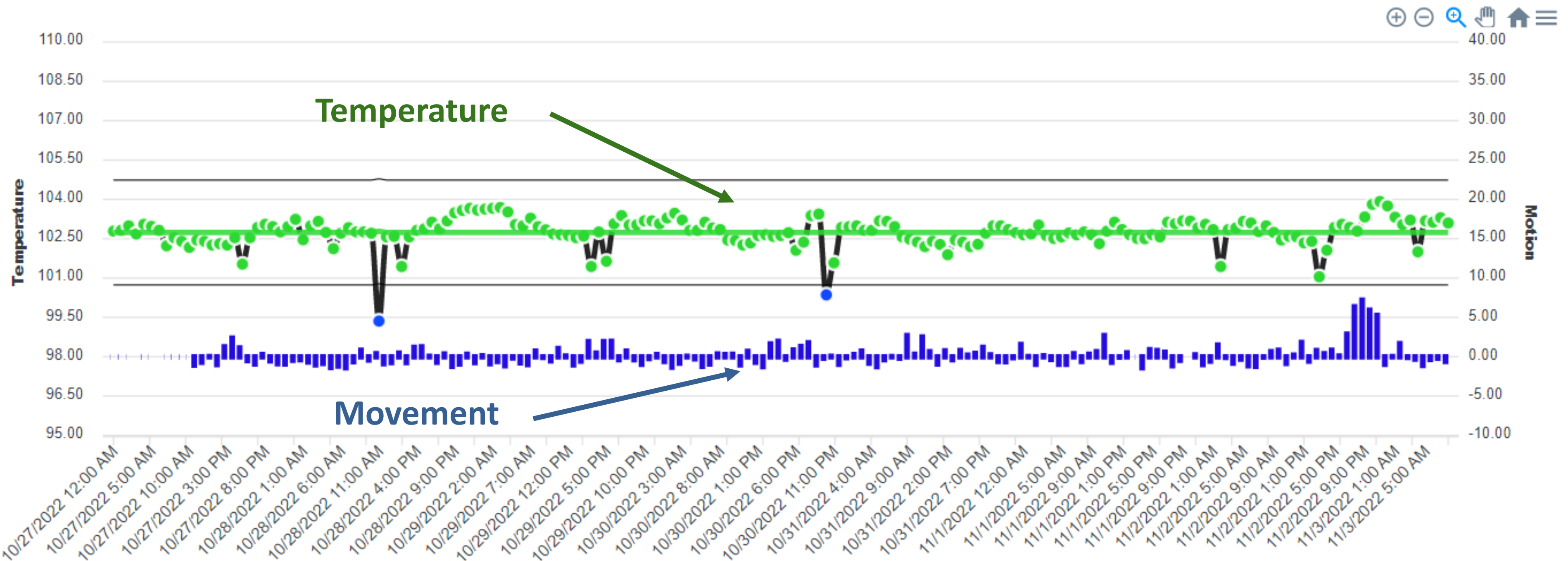
Last 24 h

Last 72 h

Week

Month

Interval



General

Weight

Health

Birth Information

Reproduction

Physical Exam

Pen History

Animal Timeline

Interval

Last 24 h

Last 72 h

Week

Month

Interval

Date From

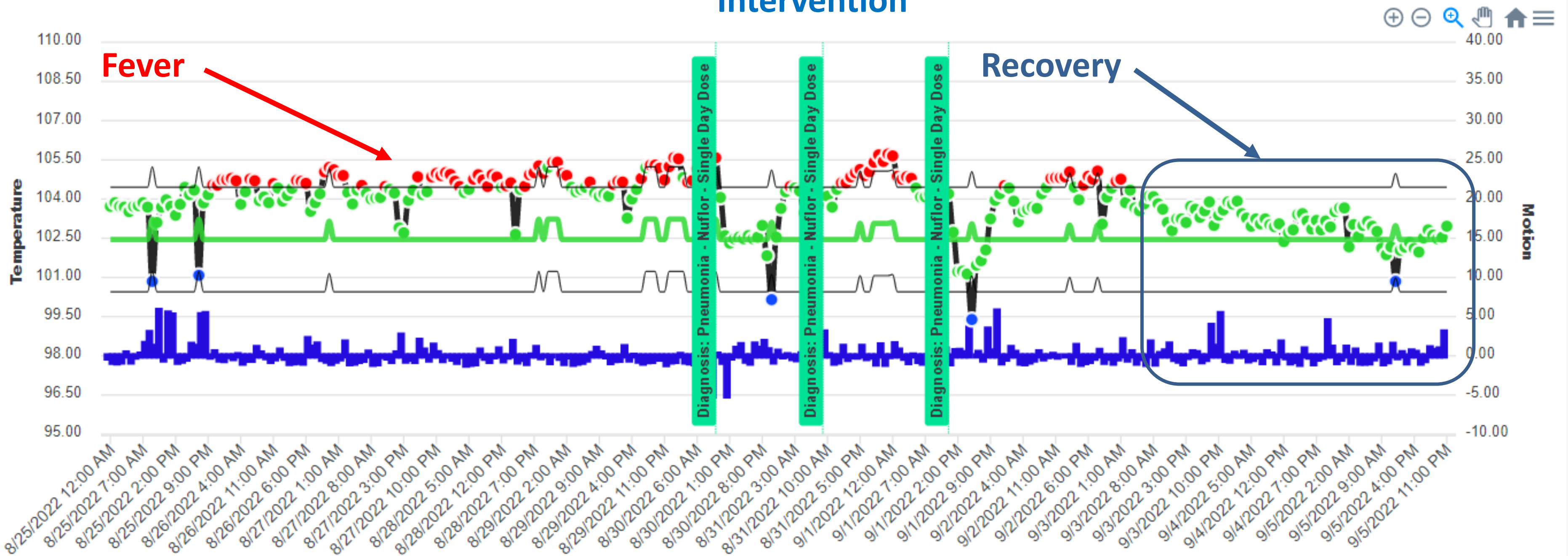
8/25/2022

Date To

9/5/2022

Search

Intervention



Animal Information

Ear Tag: 18736

Barn: Barn 1

Pen: 127

Breed: HO

Heifer

Active

General Weight Health Birth Information Reproduction Physical Exam Pen History Animal Timeline

Last Month

Last 24 h

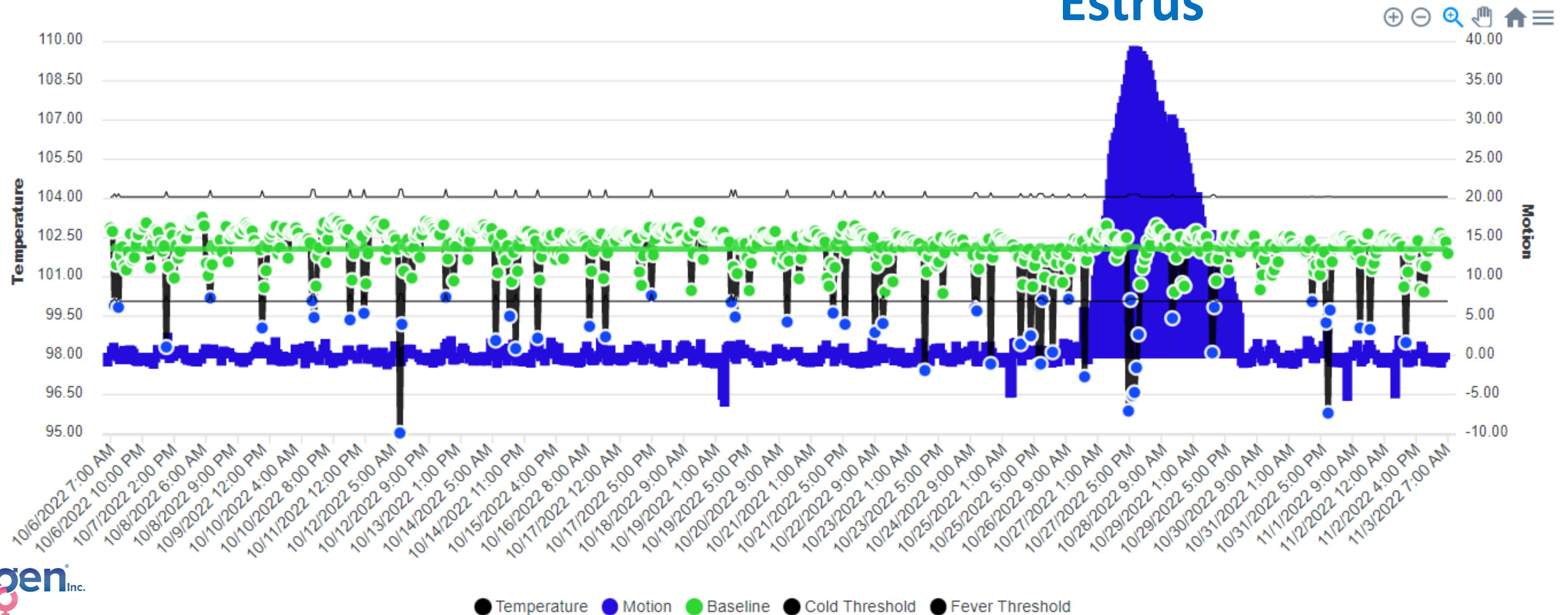
Last 72 h

Week

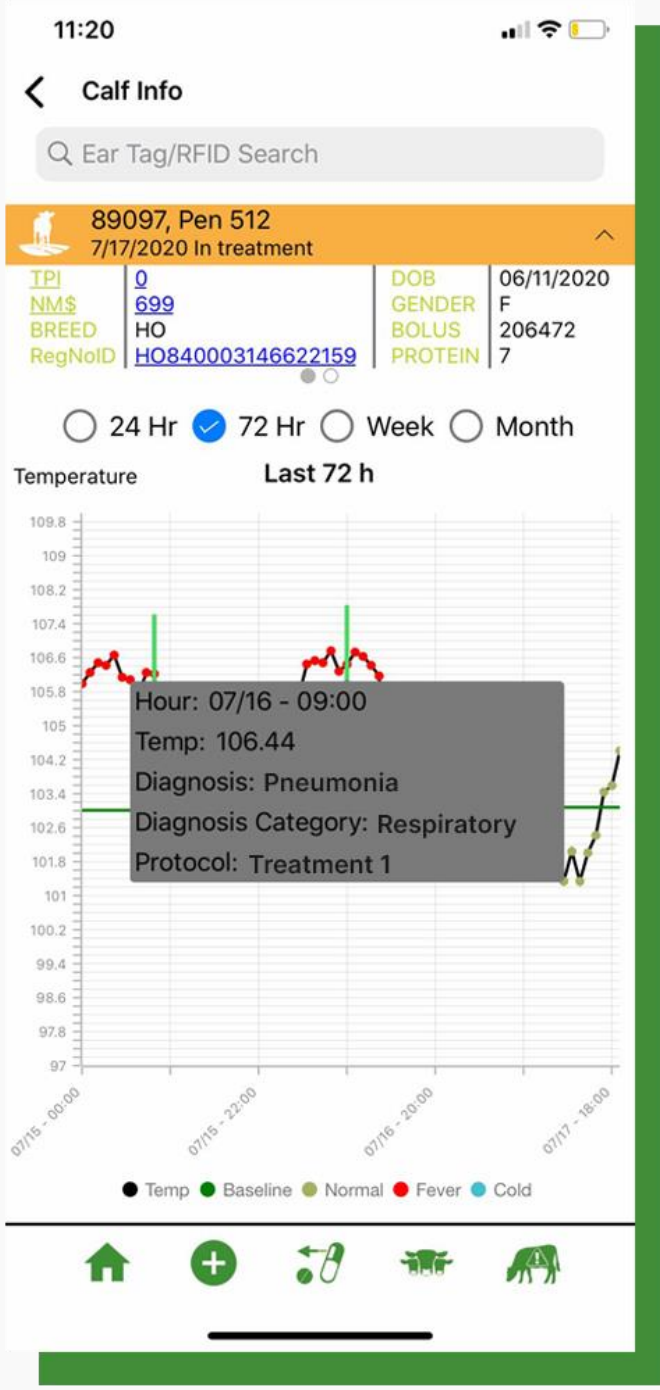
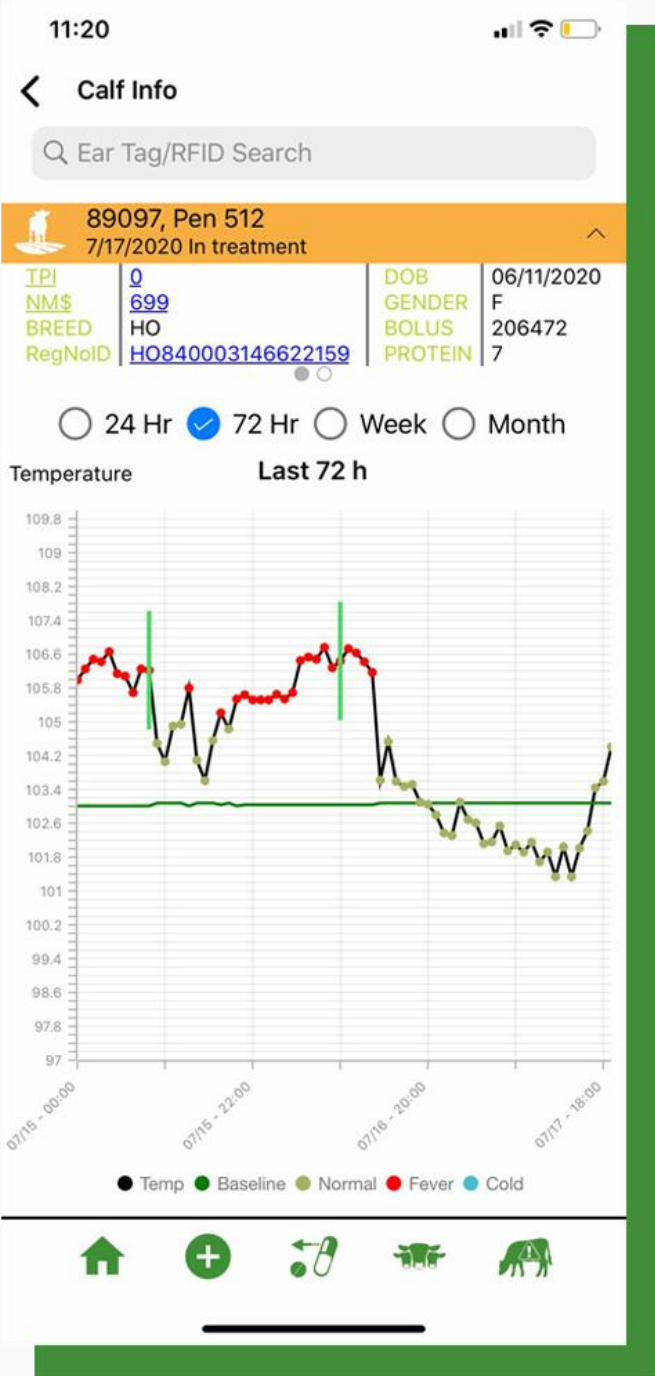
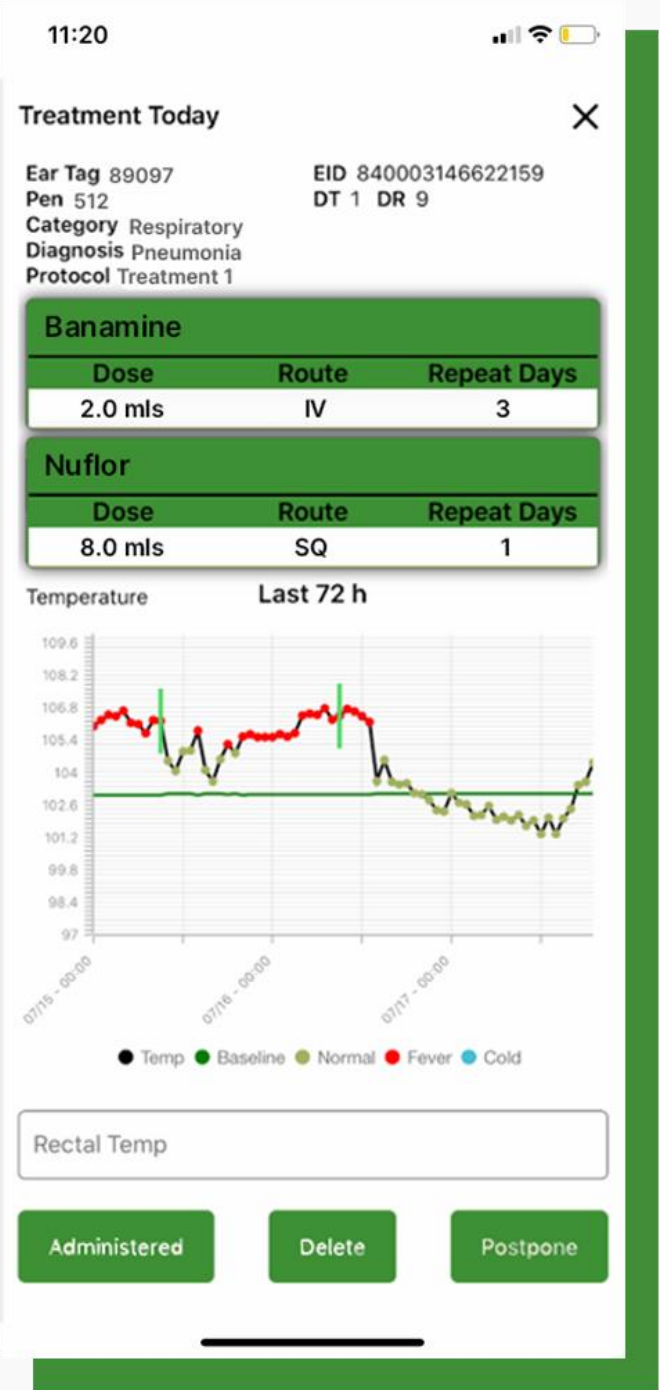
Month

Interval

Estrus



Response to treatment



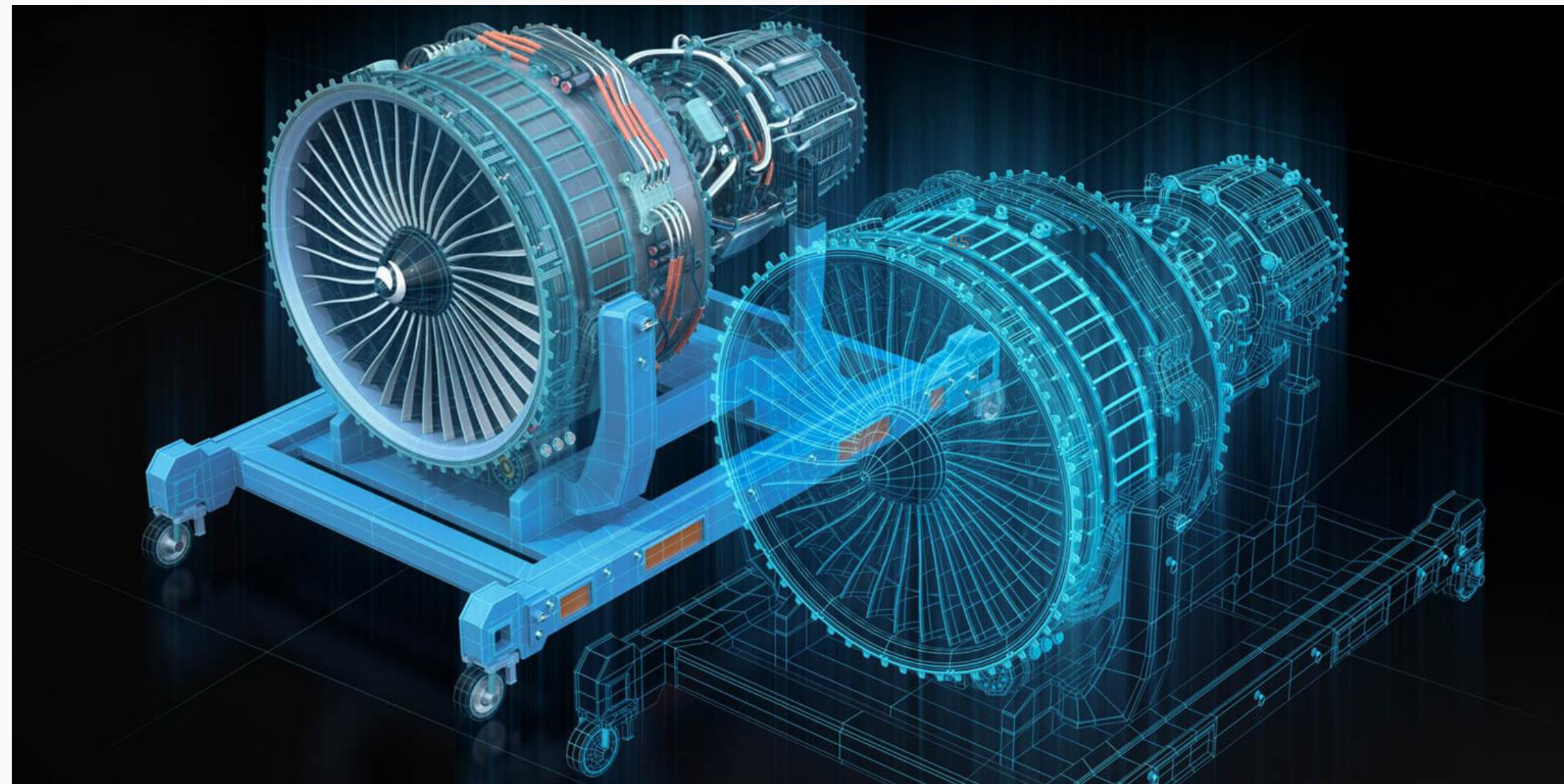
Getting food from the farm to your table.



What is a Phenotyping Twin for Selection of new traits?

It helps in predicting, optimizing, and improving decision making.

It has revolutionized the industrial world, particularly the manufacturing industry, construction and healthcare sector, smart cities, and energy industry.





Ecofeed[®]

EXTRAORDINARY TIMES REQUIRE,
EXTRAORDINARY MEASURES



The genetic
fingerprint of efficient
feed conversion

Dr. Jocelyn Johnson

Animal Research Scientist STgenetics[®]

How did we develop Ecofeed[®] ?

Run genetic analysis

4



5

Create Genetic Selection Indexes

Ecofeed[®]
heifer

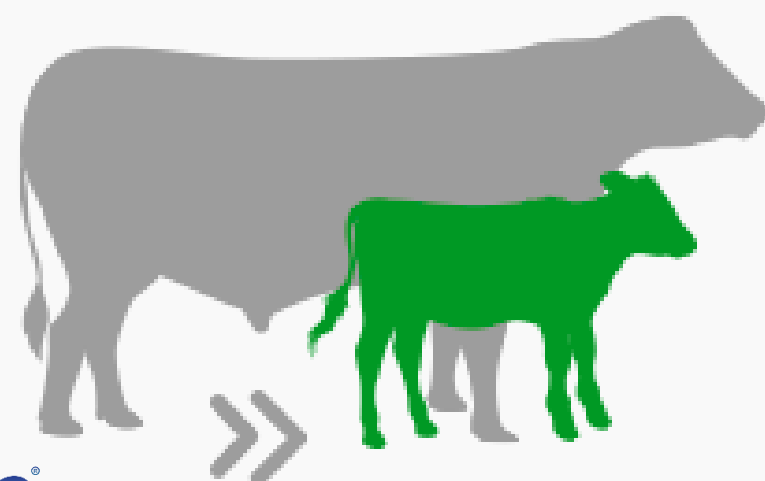
Ecofeed[®]
COW

Ecofeed[®]
beef on dairy

Collect Progeny Data

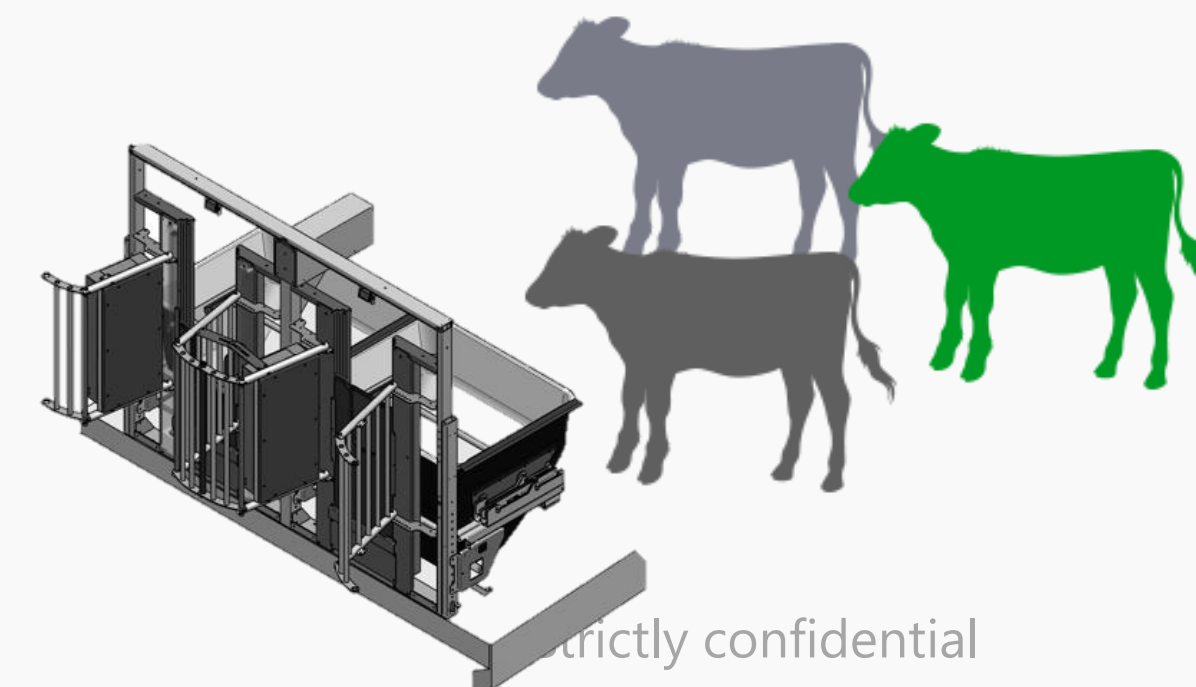
3

- ✓ Intake
- ✓ Performance
- ✓ Reproduction



1

Build large scale phenotyping system



2

Collect DNA and genomic test all animals

STgenetics is using the most advanced technology for phenotyping

ST research facilities equipped with:

- ✓ >500 feed bunks
- ✓ 160 3-D cameras
- ✓ 10 GreenFeed units
- ✓ 16 Lely milk robots
- ✓ Lely calf feeders
- ✓ DNA testing lab



Individual Feed Intake



Daily Body Weight Cameras



Methane Emissions



Robotic Milk Machines



Genomic Testing Lab

Strictly confidential

Ohio Heifer Center

✓ Calf Auto Barn



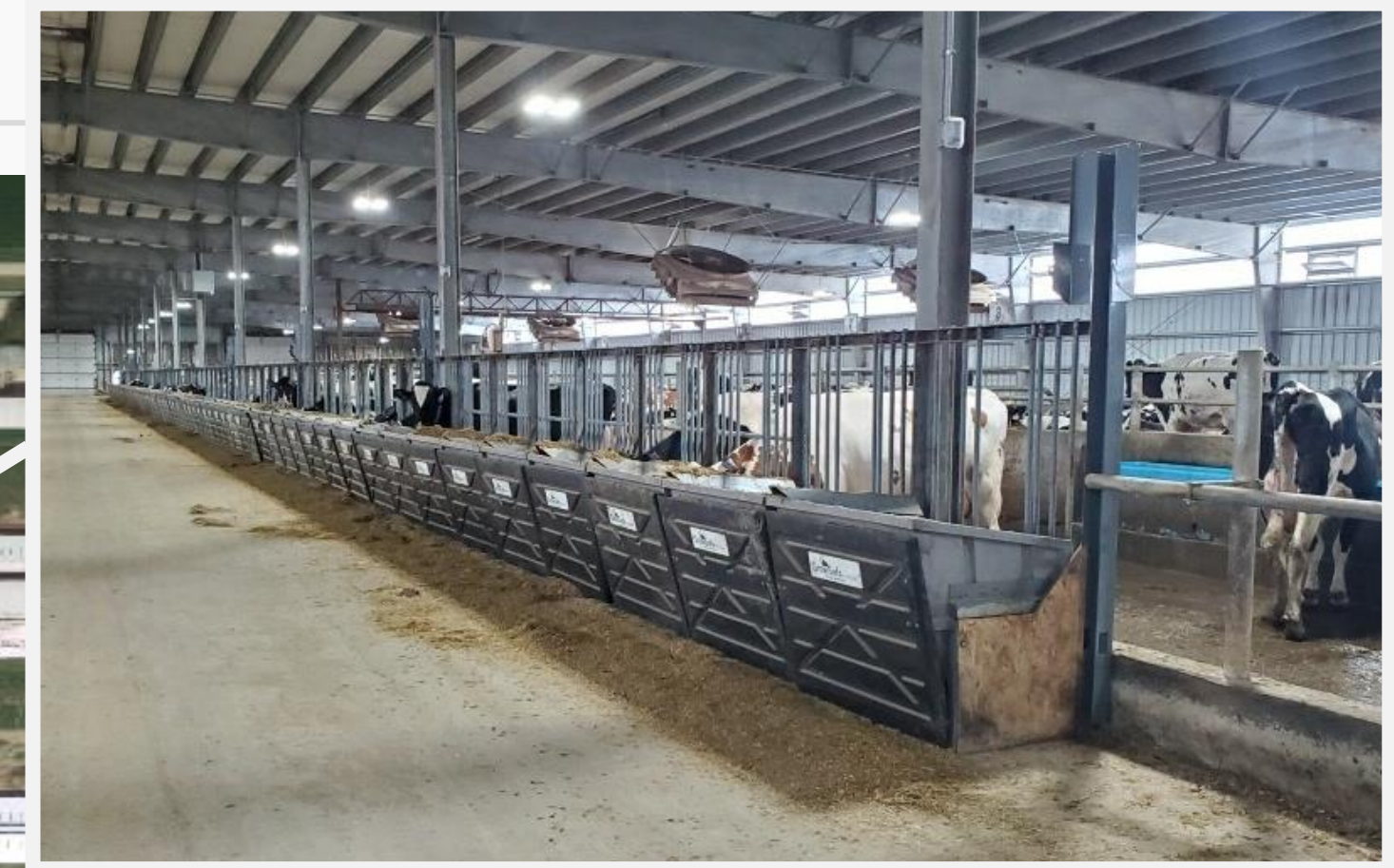
Ohio Heifer Center

- ✓ Calf Auto Barn
- ✓ Growing HO heifer feed conversion barn
- ✓ Parlor milk barn with feed conversion test



Ohio Heifer Center

- ✓ Calf Auto Barn
- ✓ Growing HO heifer feed conversion barn
- ✓ Parlor milk barn with feed conversion test
- ✓ Lely robotic milking barn with feed conversion test



Genetic Development Center

- ✓ 1,280 One-time capacity
- ✓ 5,000 BxD tested per year
- ✓ 160 electronic feed intake bunks
- ✓ 20 pens
- ✓ Temple Grandin working facility



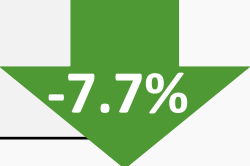


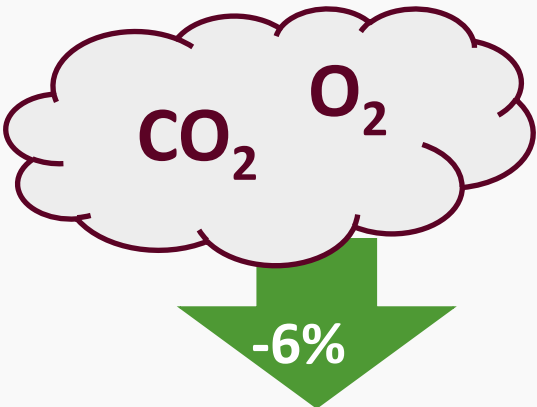
Ecofeed® environmental implications



Texas A&M collaborative study to directly measure methane production in heifers with divergent genomic Ecofeed

- ✓ 54 HO heifers
- ✓ Divergent genomic heifer Ecofeed
- ✓ Individual feed intake and methane emissions measured

Group	Low Ecofeed Heifer	High Ecofeed Heifer
<i>N</i>	27	27
Ecofeed 	93	109
DMI, lb/d	23.1	21.4 
ADG, lb/d	2.4	2.3
Methane, g/d	221	204 



The data behind Ecofeed[®]

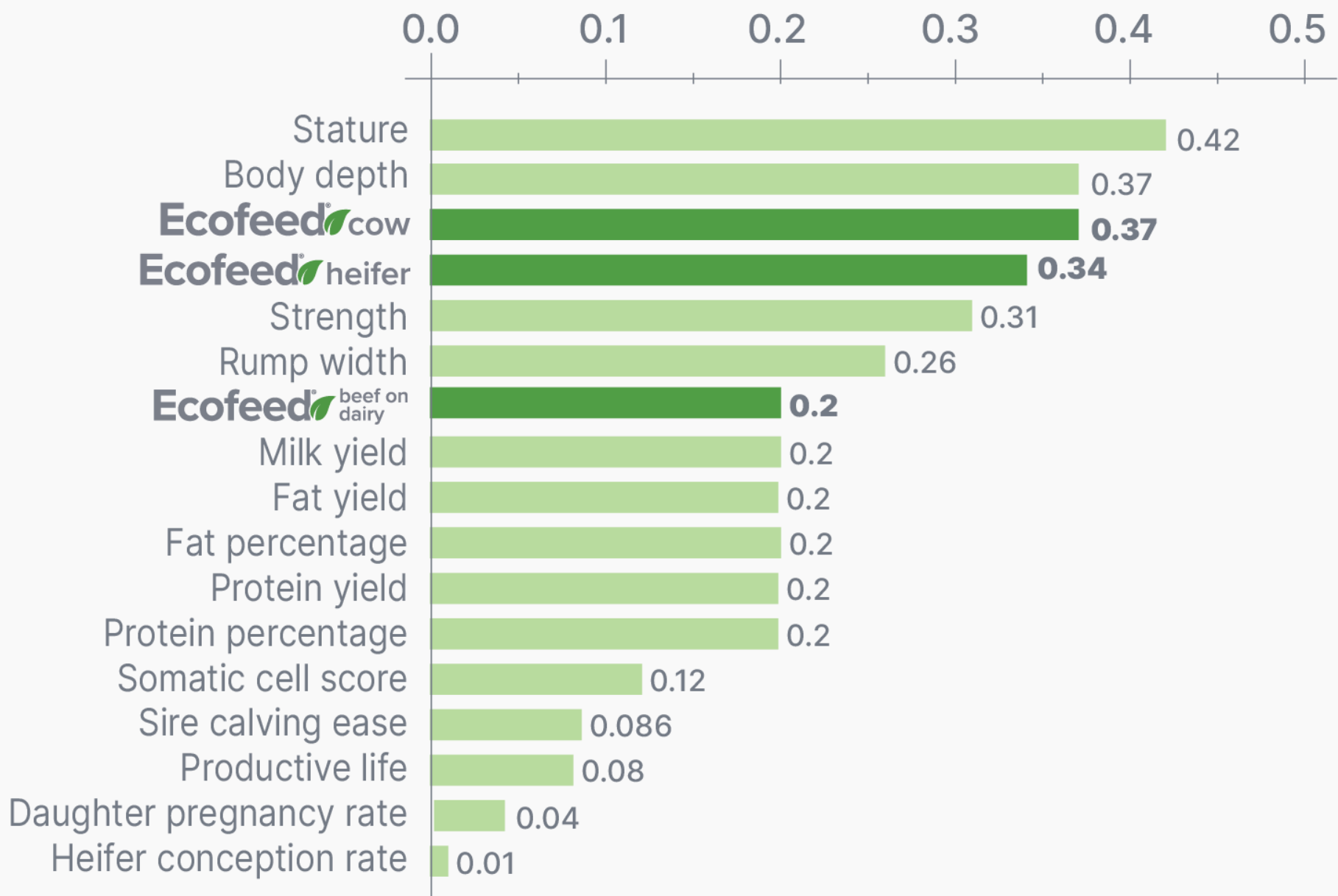
Data Points	Holstein Heifers	Holstein Cows	BxD Calves
Start of feed efficiency testing	2014	2020	2019
# of daily intake records collected	>800k	>400k	>750k
# of BW records collected	>40k	>400k	>50k
# of feed conversion phenotypes collected	8,184	2,136	7,045

Largest feed conversion efficiency database of a single operation to date

Allows for genomic predictions of related animals with **high accuracy**

Impact of Ecofeed[®] on the next generation

HERITABILITY FOR Ecofeed[®]



Correlation of Ecofeed[®] genomic breeding values with production traits

Trait	Ecofeed [®] heif	Ecofeed [®] cow
Total Performance Index (TPI)	-0.10	0.16
Net Merit (\$NM)	0.00	0.18
Milk	-0.05	0.04
Protein	-0.05	0.06
Fat	-0.02	0.11
Productive Life	0.04	0.18
Daughter pregnancy rate (DPR)	0.04	0.01
EcoFeed Heifer	---	0.19
EcoFeed Cow	0.19	---

Source CDCB & HAUSA (08/23) | Source for EcoFeed[®] Sexing Technologies[®]

Selection for **High EcoFeed[®]** females can be done with the same **confidence** as selection for other economically relevant traits as it has similar heritability

Ecofeed® increases environmental sustainability



Less Land



Less fertilizer & pesticide use



Less water



Less energy to irrigate crops



Less fossil fuels for tractors & other farm equipment

15%

Less **feed** Consumed*

21%

Less **water** ingested*

15%

Less **methane** emitted*



Impact of Ecofeed® sire selection on feed cost and CO₂ savings



Bull*	TPI	Ecofeed Heifer	Ecofeed Cow	Feed Cost Savings	Kg CO ₂ Savings*
1	3093	107	133	\$ 290	476
2	3057	108	129	\$ 262	434
3	2999	99	131	\$ 244	386
4	3018	98	130	\$ 229	359
5	2970	99	128	\$ 224	355
6	2944	97	129	\$ 223	348
7	3010	104	124	\$ 209	342
8	3030	98	127	\$ 213	335
9	3021	105	123	\$ 204	334

*Each bull represents a top ranking sire with semen available through STgenetics; Kg CO₂ savings per daughter based on Ecofeed changes in the 1st generation, \$0.13/lb DM heifer and \$0.19/lb DM cow ration cost

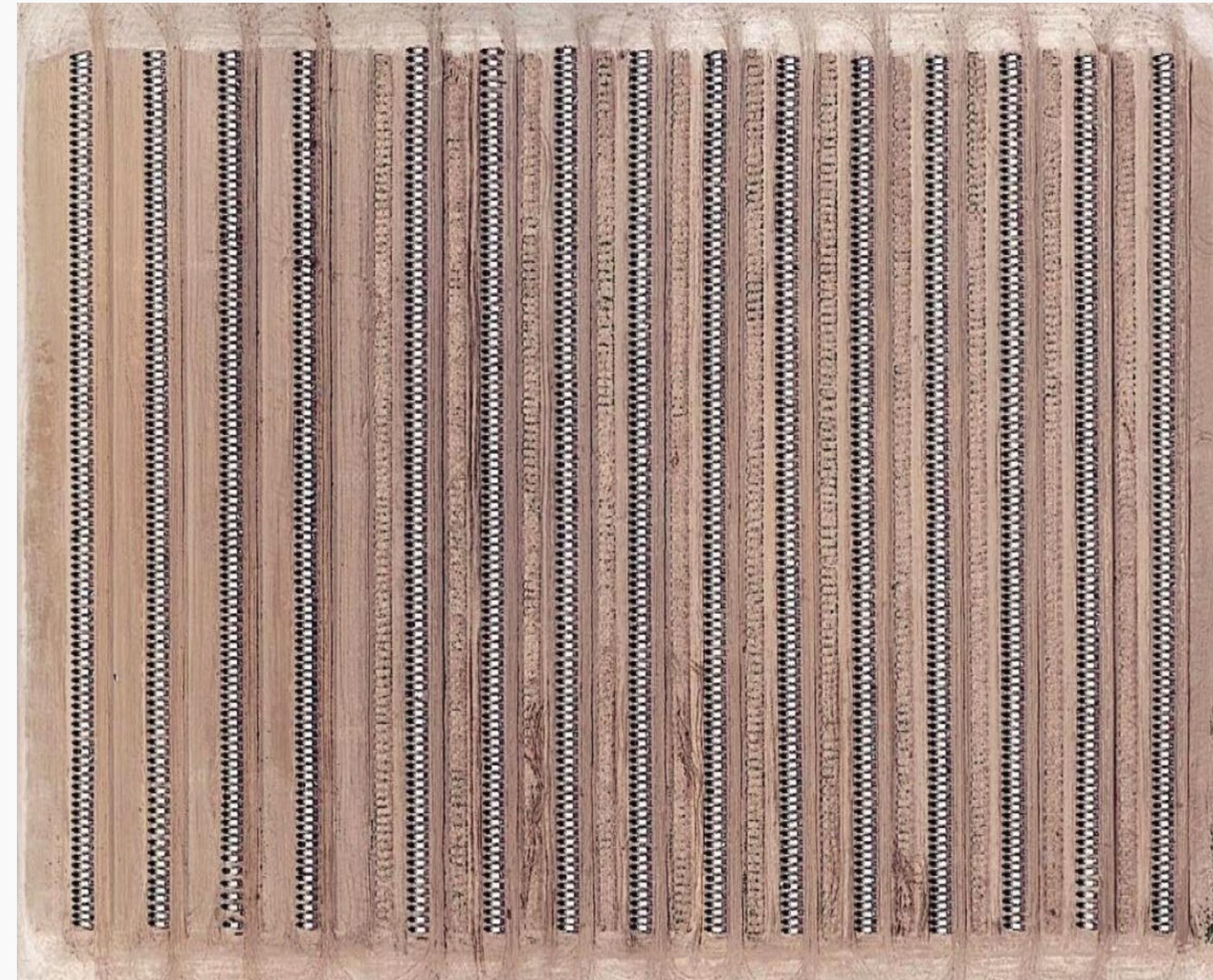


Food and Agriculture
Organization of the
United Nations



E-AGRICULTURE IN ACTION: **BLOCKCHAIN** FOR AGRICULTURE Opportunities and Challenges

BEEF ON DAIRY THE ULTIMATE UNIFORMITY

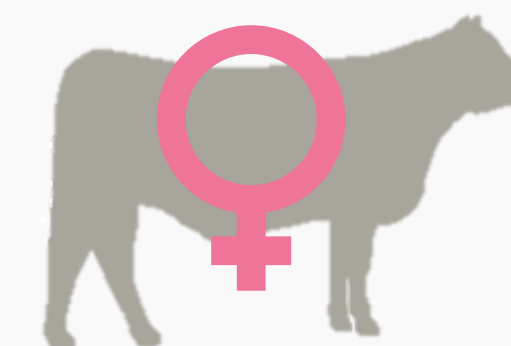
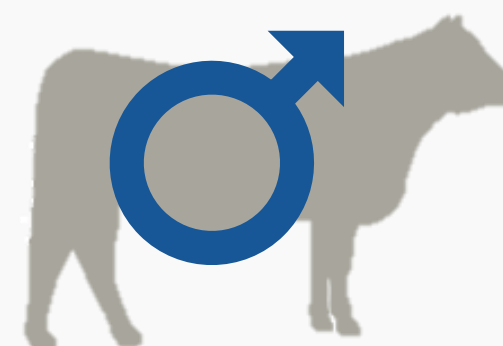


Traceability



Beef VALUE OF GENDER

Performance differences between steers (n = 1605) and heifers (n = 1375)



Steer

- ADG = **3.25** lbs/d
- DMI = **23.8** lbs/d
- FCR = **7.32** lbs/lb
- Cost of gain = **\$0.88**
(\$0.12/lb DM)
- Cost of gain = **\$1.46**
(\$0.20/lb DM)

+14%

-6%

Heifer

- ADG = **2.84** lbs/d
- DMI = **22.1** lbs/d
- FCR = **7.78** lbs/lb
- Cost of gain = **\$0.93**
(\$0.12/lb DM)
- Cost of gain = **\$1.56**
(\$0.20/lb DM)

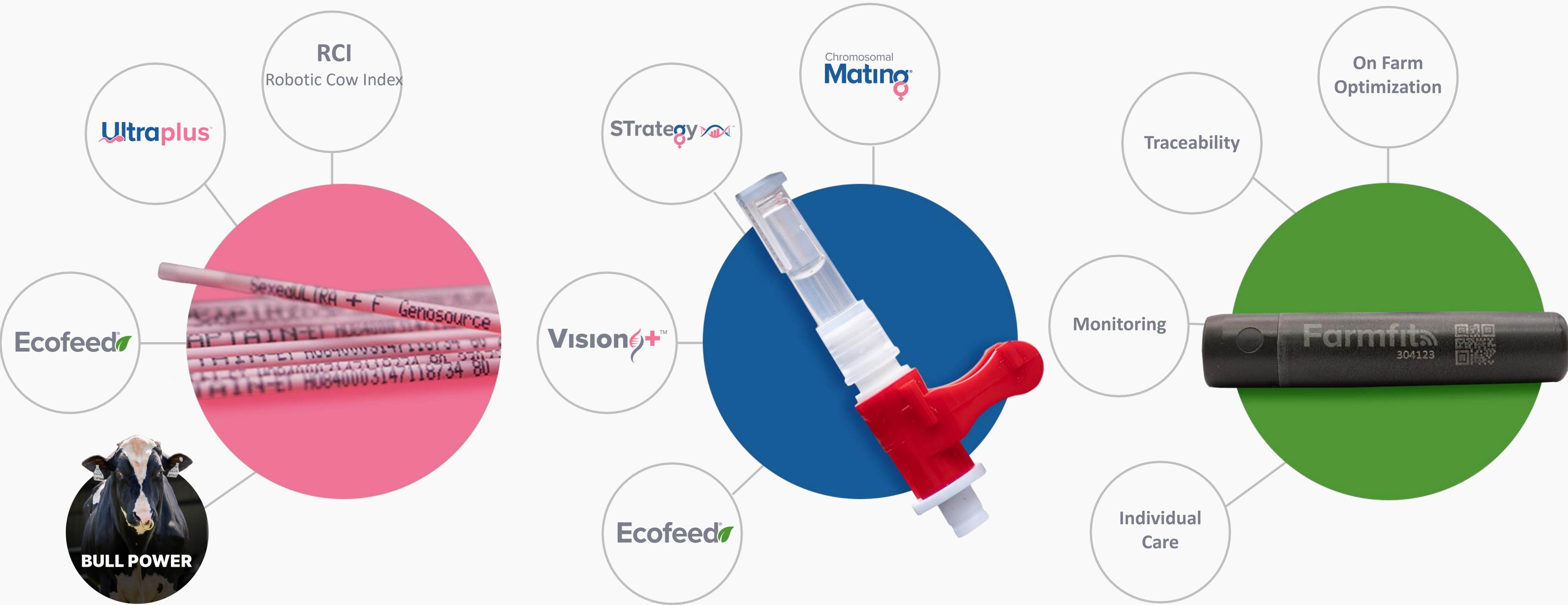


PROFITABLE SUSTAINABILITY of Beef X Dairy Cattle IS PREDICTABLE WITH



Genomic testing

- High Average Daily Gain
- High Feed Efficiency
- HIGH MARBLING
- Verified Environmentally Friendly
- DNA VERIFIED.
- FULL TRACIBILITY OF ANIMAL WELFARE
- SEX SELECTED



Much more than just a Genetic Source. **An Integrated Force.**

STgenetics®



Thank you!

The best way
to predict **the future**
is to *Create it*

