



Collaboration



Early US Breed Associations: Establishment



Shorthorn
1872



Polled Durhams
1889



Hereford
1883



Polled Hereford
1926



Angus
1883



Red Angus
1954

Early US Breed Associations:

~~Collaboration~~



Crossbreeding: First JAS Reference

1943



X-Breeding Improves Profit

Later US Breed Associations: Establishment



Charolais
1964



Simmental
1968



Limousin
1968



Maine Anjou
1969



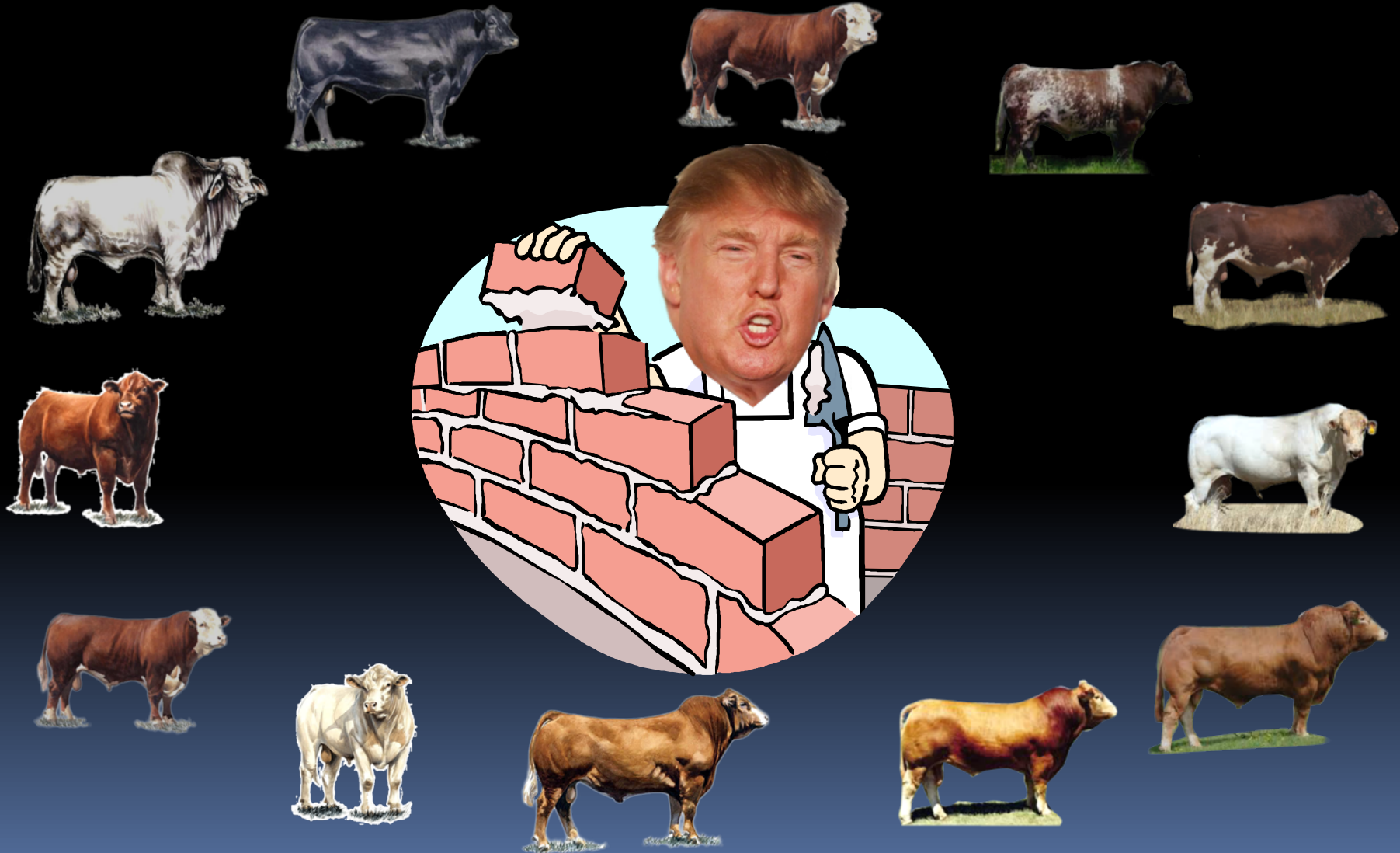
Gelbvieh
1971



Chianina
1972

Later US Breed Associations:

~~Collaboration~~



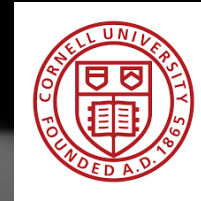
Tear down this wall!





**An unprecedented collaboration
between progressive breed
associations to enhance beef
industry profitability**

1997



Multi-Breed Genetic Evaluation



Google, Amazon, Apple, Facebook and Microsoft— look unstoppable. They are the five most valuable listed firms in the world.
-The Economist, 5/6/17



They all have something in common?

Data is their lifeblood!

The Economist

MAY 6TH-12TH 2017

Theresa May v Brussels

Ten years on: banking after the crisis

South Korea's unfinished revolution

Biology, but without the cells

The world's most valuable resource



Data and the new rules of competition

**“Data is the lifeblood of
genetic improvement.”**

“Data is the lifeblood of genetic improvement.”



✓ No one has more of it



IGS International Genetic Solutions

World's Largest GE
17 independent databases
17.8 million animals
370,000+ new/ year
230,000+ genotypes



“Data is the lifeblood of genetic improvement.”



- ✓ **No one has more of it**
- ✓ **No one uses it more effectively**

Genomic Landscape

Software

Lab





Multi Breed Genetic Evaluation

powered by...

BOLT



| TRAIT | PROGENY |
|-------|---------|
| CE | 36 |
| MCE | 4 |
| BW | 22 |
| WW | 26 |
| YW | 30 |
| MLK | 19 |
| STAY | 15 |
| CW | 5 |
| MRB | 8 |
| REA | 6 |
| FAT | 8 |
| DOC | 27 |

The largest and most powerful genetic evaluation system in the world!

We Welcome You...



To the Future!