



# CHALLENGES AND OPPORTUNITIES IN SUSTAINABLE GENETIC IMPROVEMENT OF ZEBU DAIRY FARMING

ICAR & INTERBULL  
MAY 19-24, 2024 SLOVENIA



## 2023 Top 5 Milk Producer Countries:

Country	Estimated Production (thousand tonnes)
1. India	236.3
2. USA	102.9
3. Pakistan	64.3
4. China	43.4
5. Brazil	36.6

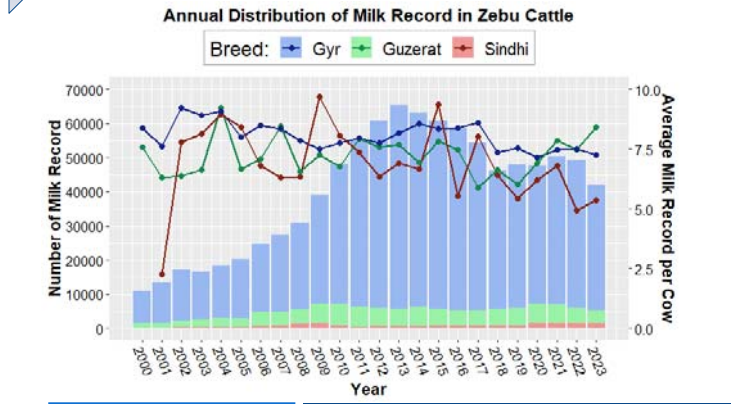
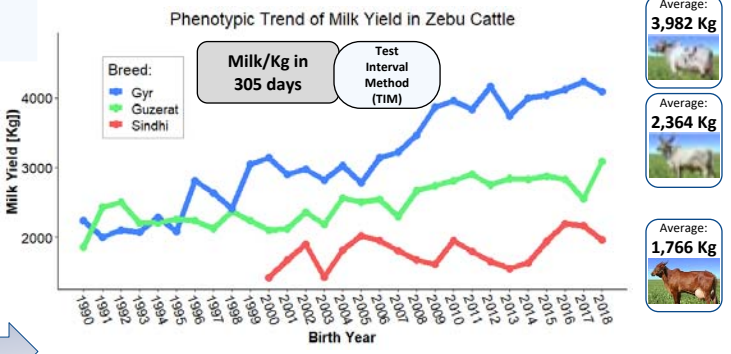
(FAO, 2023)

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Directly influenced by the Zebu cattle (*bos taurus indicus*)

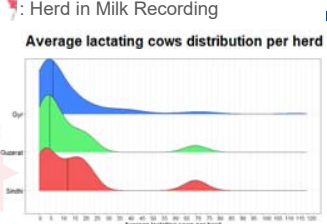
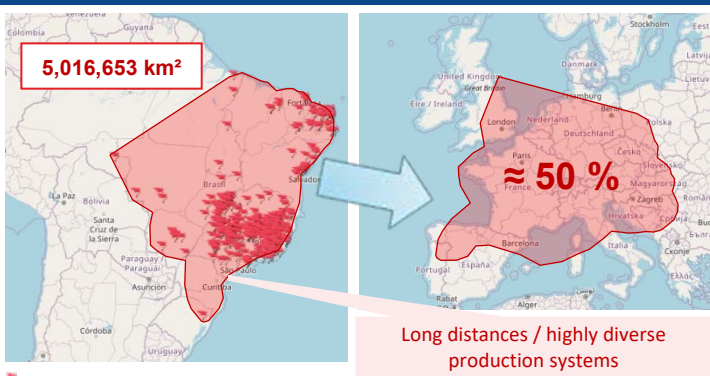
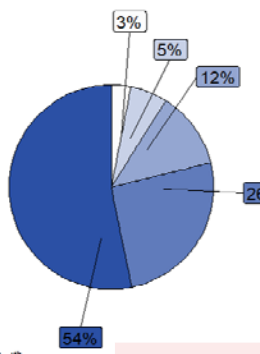


Dairy purpose being developed in Brazil



## REPORTED CHALLENGES

Percentage of cows from different number of lactations available

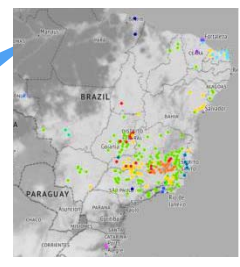


data collection relies on **TECHNICIAN** visits / limits the information flow

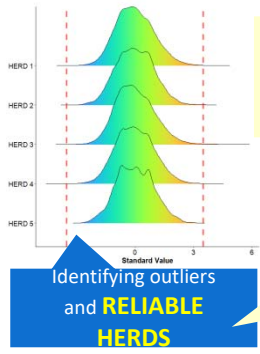
## SOLUTIONS ADOPTED

Maintaining **TECHNICIANS** trained and skilled for phenotype collection and advising breeders.

**TECHNICIANS** in various parts of the country



Monitoring **TECHNICIANS** and Herds distributions of information



## IN THE FUTURE

Multi-breed genomic evaluation

Genetic evaluation with these herds, incorporating more reliable phenotypes and new traits

