Data Ownership, Privacy, Use, Sharing and Stewardship - The U.S. Experience

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Value-added to dairy producers

National Cooperator Database

Cutting-edge research

Premier dairy genetic information services
Data Flow from Farm to Genetic Evaluation

Access and Use Agreement

Dairy Record Providers (DRP)
- Lactation
- Health
- Calving
- Reproduction
- Herd Info
- Test Day
- Yearly Averages

Dairy Record Processing Centers (DRPC)

Breed Associations
- Pedigrees
- Conformation

National Association of Animal Breeders
- NAAB codes of AI bulls
- A.I. bull status codes

COUNCIL ON DAIRY CATTLE BREEDING
Genomic data flow

DNA laboratory

Genomic Nominator

Council on Dairy Cattle Breeding (CDCB)

Dairy Record Provider (farmer or controller)

dna samples

DNA samples

genotypes

nomination, pedigrees

genomic evaluations

quality reports
Material License Agreements

- Data providers and CDCB
- Limit data use and distribution
- Allow CDCB to perform analysis
- Allow USDA to perform research
Material Transfer Research Data Exchange Agreement
Data Access for Research

- Research Data Requests
- Data Controller Authorization
- CDCB Provides Data Access
International Genotype Exchanges

International Partners Agreements

CDCB Executes Exchanges
New Data Types

New business model

Standards

Development

Integration
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Ownership
- Dairy producer
- Controller

Privacy, Use
- MLAs

Sharing
- Bilateral Agreements

Stewardship
- National Cooperator Database
- CDCB
Take Home

- Dairy herd data belong to dairy producers who invest in technology and pay for all services

- Dairy data: improve the decision-making process at the herd level

- Farmer-based organizations: facilitate integration of the existing and emerging data streams
Thank You!

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