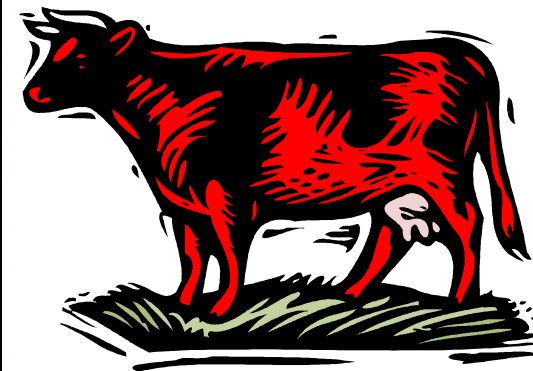
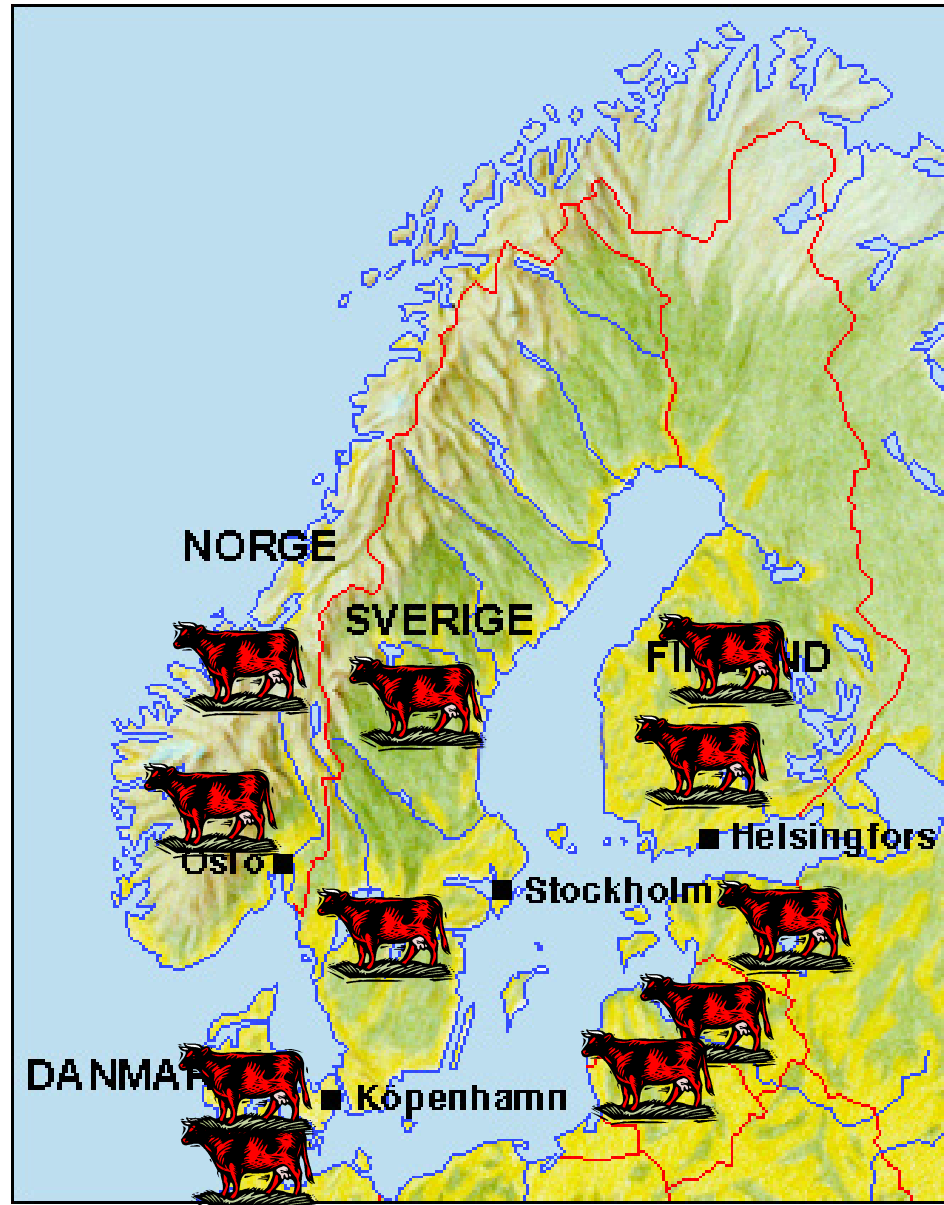


The basis for cooperation in breeding in the ERDB member countries

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Joint Nordic Genetic Evaluation
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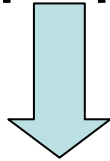


Nordisk Avlsværdivurdering



Benefits

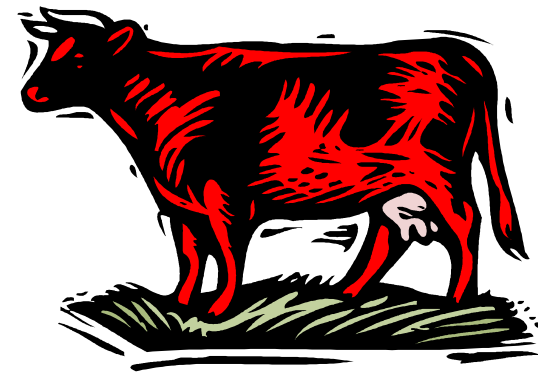
- Increased population size



- Increased genetic gain with control of inbreeding
- Better use of resources

What is needed!

- Genetic links
- Registration system
- Genetic evaluation
- Test program of young bulls
- Breeding goal



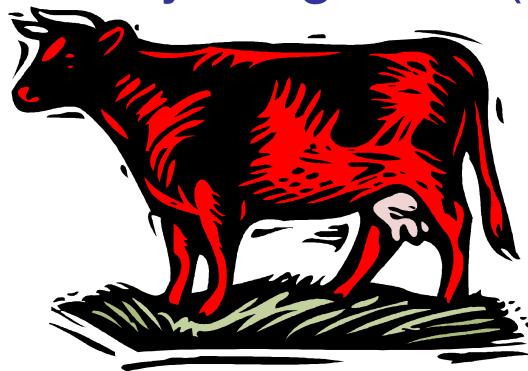
Situation in ERDB countries

- Genetic links
- Registration system
- Genetic evaluation
- Test program of young bulls
- Breeding goal
- I must admit that I have not studied it in details so in some cases I might be wrong!!



Genetic links ERDB

- Genetic links:
 - 2-way genetic ties between Sweden, Finland, Norway and Denmark
 - Proven sires /sires and sons
 - Common test of young bulls (Fin-Swe)



Genetic links ERDB

- Genetic links:
 - 1-way genetic ties between Nordic countries and Baltic countries
 - Nordic proven sires
 - Nordic young bulls
 - Angel breed - weak link to DNK



Breeding goal

- Do we have a common breeding goal for our red breeds?
- An economic cow
 - High production with excellent functional traits (longevity, diseases resistance, fertility, calving traits)



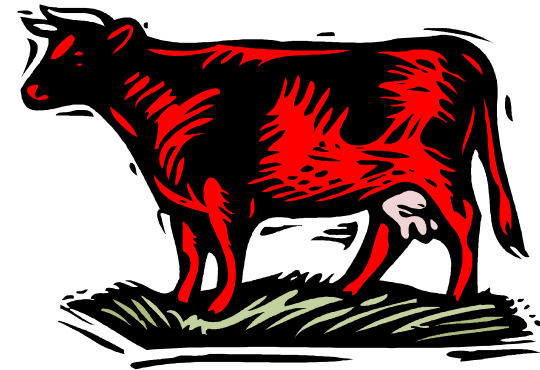
Registration

Pedigree:

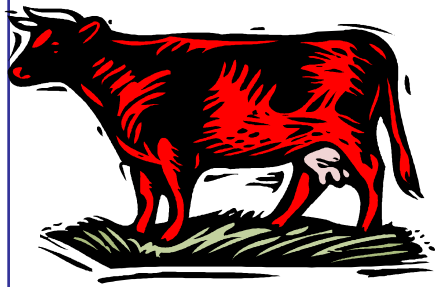
- Complete pedigree (unique id)

Traits:

- Production
- SCC
- Type traits, milking speed and temperament
- Longevity
- Fertility traits
- Calving traits
- Disease treatments - mastitis



Registrations in different ERDB countries

	Pedigree	Yield, type, SCC	Functional traits
Nordic countries	Yes	Yes	Yes
Baltic countries	Yes	Yes?	No?

Genetic evaluation

- Finland, Sweden and Denmark benefits from their similar registration systems in the Joint Nordic Genetic Evaluation



Genetic evaluation

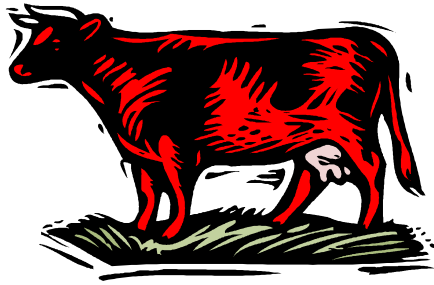
- Joint Nordic Genetic Evaluation is open for cooperation with other ERDB countries about:
 - Building similar registration systems
 - Building national or joint genetic evaluation



Perspectives – joint Nordic Estimation of breeding values

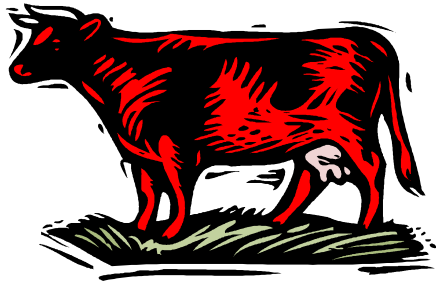
- Use resources more efficient:
 - Development of new method
 - Routine evaluation
- Joint platform for practical breeding work





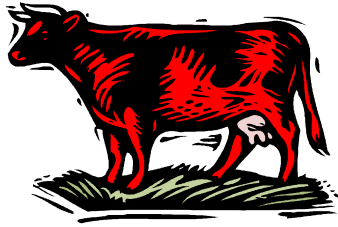
Short run Perspectives – ERDB

- Similar registration system all traits
 - Which traits to be registered
- Establish national evaluation
 - Trait definition
 - Statistical model
 - Sub breeding goals
 - Presentation of EBVs



Short run Perspectives – ERDB

- Benefit from Nordic experiences
- Get a better platform for practical breeding work and ERDB cooperation











Long run

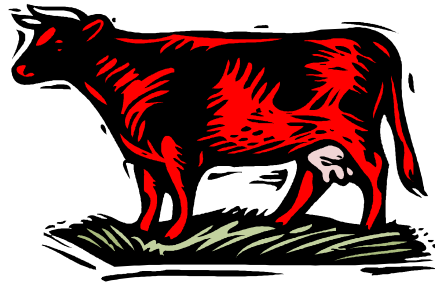
Perspectives – joint ERDB

Estimation of breeding values

- Use resources more efficient:
 - Development of new method
 - Routine evaluation
- Joint platform for practical breeding work

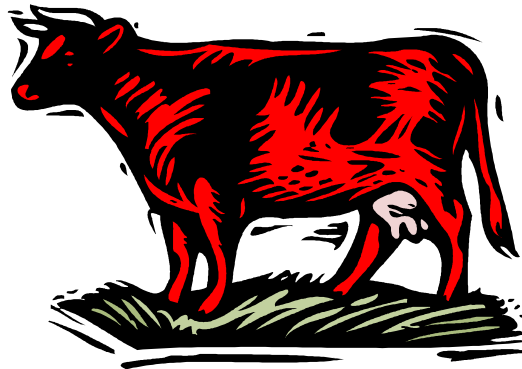
What do we have and what do we still miss within ERDB?

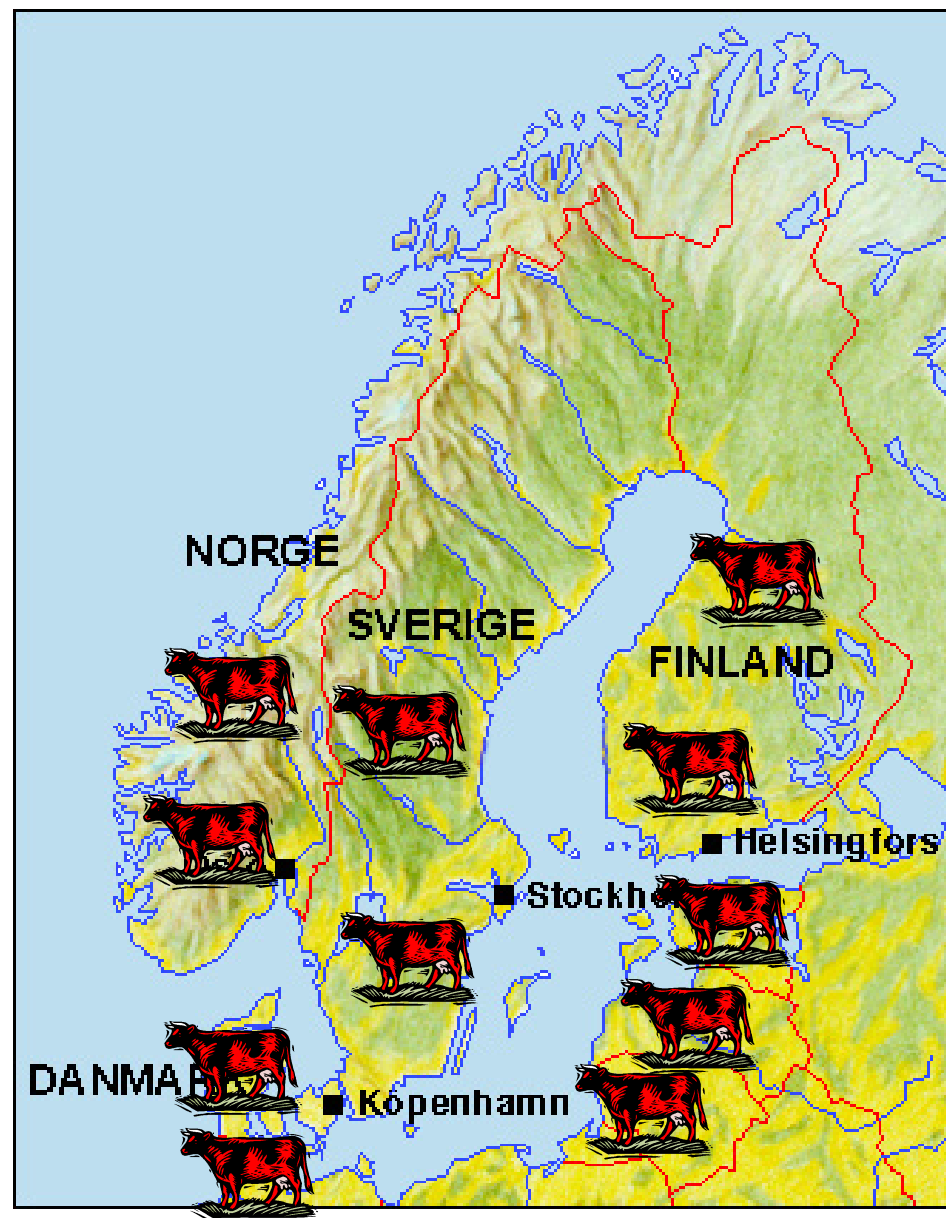
- Genetic links  
- Registration system  
- Genetic evaluation  
- Test program of young bulls 
- Breeding goal 



Genetic evaluation

- Joint Nordic Genetic Evaluation is open for cooperation with other ERDB countries about:
 - Building similar registration systems
 - Building national or joint genetic evaluation





Nordisk Avlsværdivurdering

