



Implementation plan, time schedule for Nordic evaluation and future plans

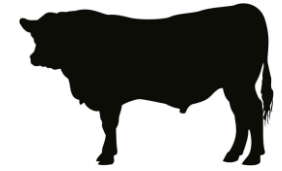
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NAV



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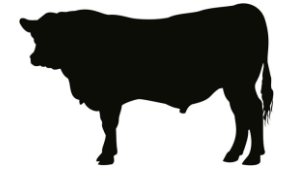
Implementation plan, and time schedule



- **2nd June 2021 (aim for implementation)**
 - **NAV EBVs calculated for all single calving and carcass traits for HER, ANG, LIM, SIM and CHA**
 - **Combined traits calculated nationally based on single NAV traits**
 - **NAV EBVs are published on NAV search page for relevant animals**
 - **4 NAV evaluation takes place per year**

NAV





Future plans – more breeds

- Establish NAV evaluation for calving and carcass traits for remaining beef breeds (e.g., BBK, BAQ, HLD) by using:
 - The developed NAV models
 - The estimated genetic parameters
 - The same definitions of genetic base, sd etc

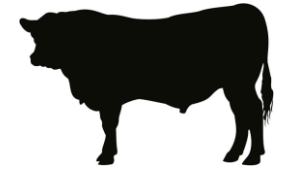
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Future plans - sub indices

Carcass traits and calving traits



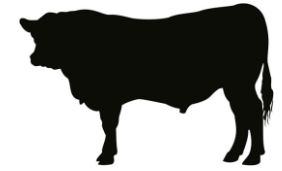
Current situation:

- SWE 11 single traits, 3 sub-indices (PIX=production index, MIX=maternal index, FIX=birth index)
- FIN 9 single traits, 0 sub-indices
- DNK 0 single traits, 5 sub-indices (Growth, Slaughter, Milk, Calving and Birth)

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Future plans sub-indices Carcass traits and calving traits

Outline for joint Nordic beef evaluation to benefit from cooperation:

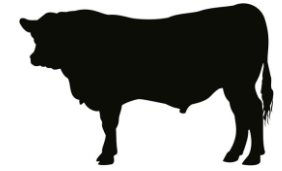
- Joint single EBVs ✓
- Joint sub-indices ?
- (Joint TMI – not a goal)

Outcome: Animals rank the same in all three countries for all single EBVs and sub-indices

PS: Dairy cattle took the same journey from 2005-2008, and ended up establishing NTM

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Future plans – more traits

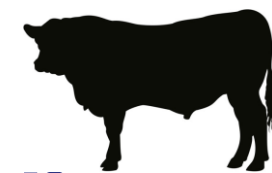
Establish NAV evaluation for remaining trait groups:

- Fertility (calving interval)
- Young stock survival
- Type traits?

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Future plans – genomic prediction and Interbeef

- Participate in Interbeef – the door towards reliable genomic prediction?
- Genomic prediction
 - Collect DFS genotypes
 - Nordic project research projects ongoing covering different aspects (Future Beef Cross, Beefgeno, Swedish purebreds)
 - Be open minded for possibilities for being part of international beef genomic prediction via Interbeef

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Summary

- **Joint Nordic genetic evaluation for beef cattle opens the door for:**
 - **Closer Nordic cooperation**
 - **Participation in international evaluation**
 - **Possibilities for being including in genomic prediction**
- **Joint Nordic genetic evaluation for beef cattle requires joint decisions and compromises**

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