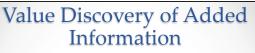




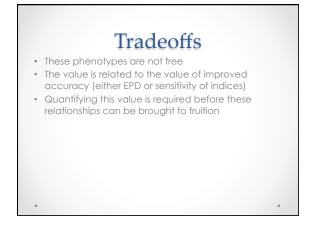


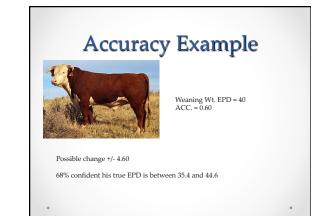
## Combining Partial Solutions

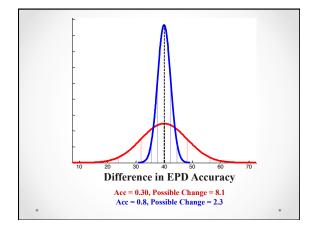
- Stochastic approaches
- Modeling of genetic merit (additive and non-additive)
   The SEP of EPD
- Variability in the accuracy of genomic predictors
  Economic variability
- Evaluating alternate planning horizons
- Current production levels in a given environment (input by the user)
- Evaluate alternate marketing options (e.g. sale at weaning, retained ownership and marketing on grid or live basis)

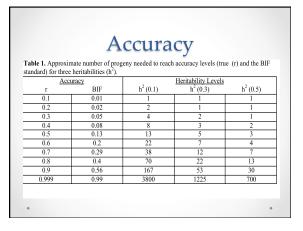


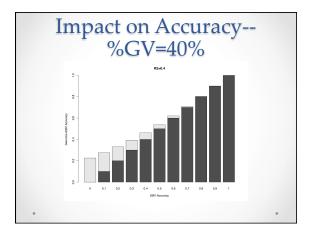
- Many ERTs are not currently evaluated nor collected routinely in the seedstock sector
- However, they drive value downstream
- Reproduction phenotypes (longevity)
  - Disease (pulls, treatments, mortality)
    "Routine" carcass data
  - Plant value—primal yield, dark cutters, blood splash, etc.

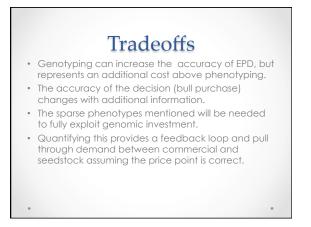


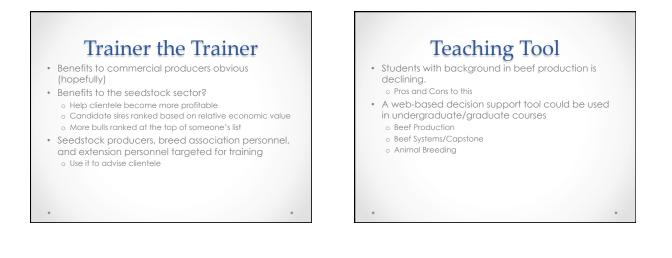














## Summary

- Tremendous investments (time and money) have been made
  - Scientific discovery
  - NCE infrastructure
  - Education of producers (extension) Despite this investment, technology adoption continues
- to lag
  - Creates inefficiency
  - The next generation of scientists will not engage in an industry that has not yet adopted 40 year old tools
- Decisions support has always been needed, and past
  efforts can be used to revisit this critical area Sustainability of this effort would be handed over the seedstock

