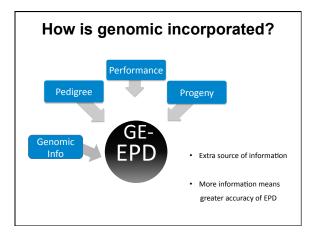
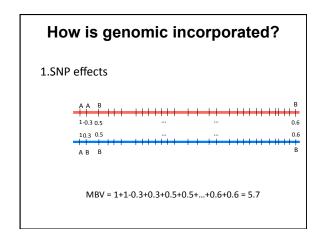
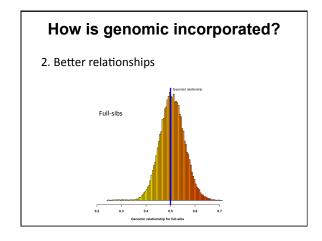


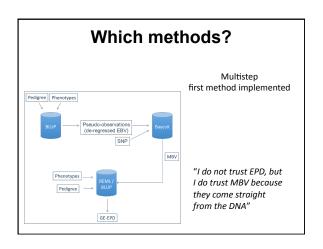
Genomics in beef cattle

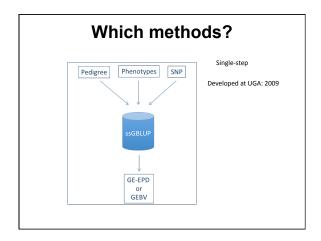
- 2009-2010: Angus
- 2012: Simmental, Hereford, Red Angus, Limousin
- 2013-2016: Charolais, Santa Gertrudis, Shorthorn,
 Brangus, Guelbvieh

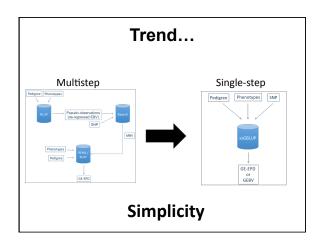




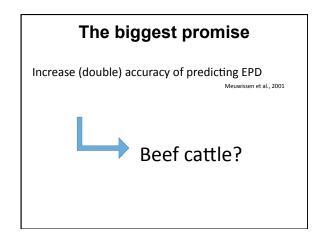


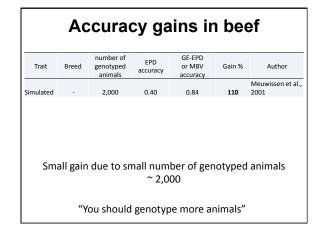


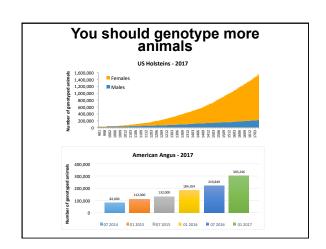


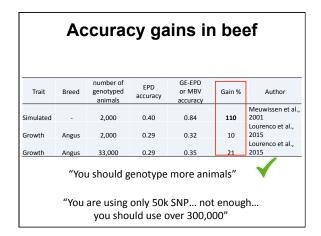


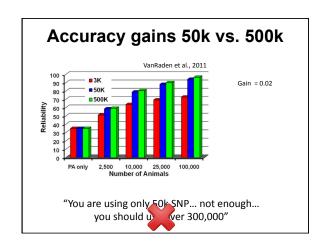


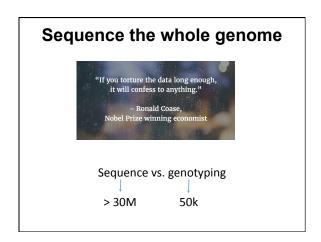


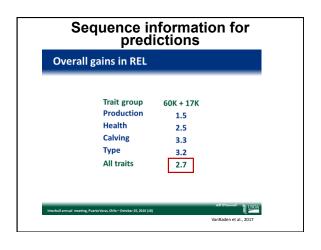


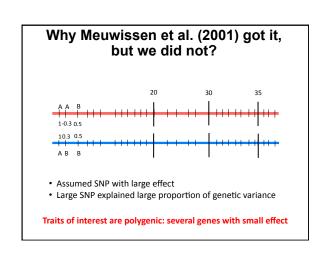


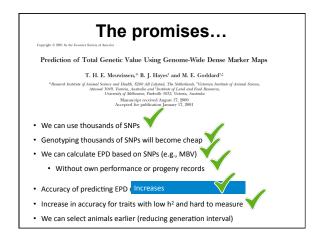


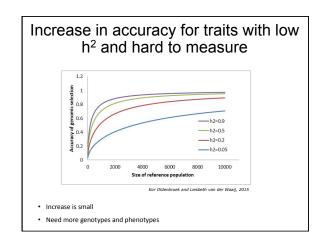


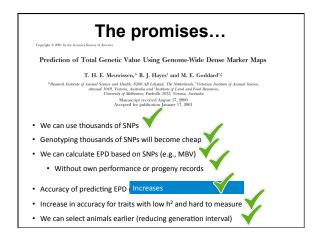


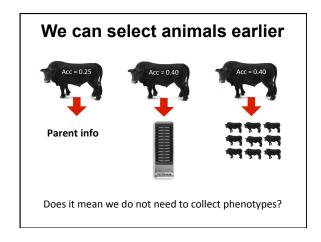


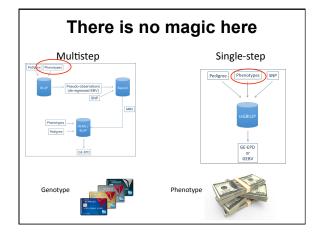


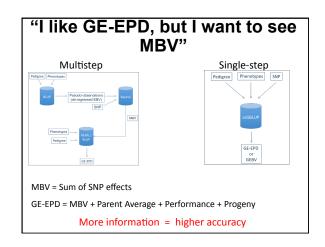












Millions of genotyped animals How is it possible? More information = higher accuracy More genotypes, phenotypes, pedigree Challenge

Millions of genotyped animals How is it possible? • DNA inherited in blocks • If we trace those blocks...few ancestors 4,000 blocks = 4,000 animals = 90% of variance +10,000 blocks = +10,000 animals = 99% of variance

