

Previously

- At a crossroads with EPDs or Stars/Scores
- Uncertainty as to who would compute MBV
 - Breed Association/DNA testing Co./Genomics Co.
 - EPDs added to MBV or MBV added to EPDs
- Uncertainty as to how many progeny equivalents test might be worth
 - If lots, performance recording might not be required

Current Status

- Genomic companies will offer services that include computing MBV/MVP
 - MBV-enhanced traits - these are likely to be available to Breed Associations for incorporation in their NCE
 - Current panels yet to include SNPs from 50k

Current Status

- MBVs will increase the accuracy of predicted performance for young, tested animals
 - At least in the discovery breed
 - Extent of accuracy increase will vary according to panel size and marker choice
 - Add MBV-enabled traits as selection targets

Current Status

- Some breeds are poorly represented in discovery populations
 - Breed associations and breeders must actively construct repositories and make them available to researchers/companies
 - Especially *Bos indicus* & *indicus/taurus* crosses
- Some scientific effort must be focused on delivering higher-density panels for discovery

Current Status

- Opportunity exists to cost-effectively improve the rate of improvement using markers
 - Principally from more effective early selection
- Value of progress depends upon market factors with market failure common for many traits in many production systems
- Marker-assisted management appears to be viable, at least for some feedlots

Future Status

- Some Breed Associations will incorporate MBV in their NCE
 - Most urgent for American Angus Association
- Expect ongoing improvement in MBV accuracy
- Expect scope of tests to expand to other breeds