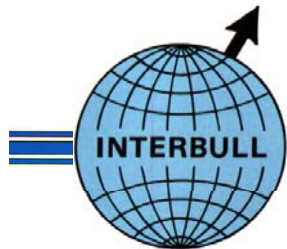




# ICAR

## Subcommittee Interbull



**Reinhard Reents**

Chairman of the Interbull Steering Committee,  
CEO IT Solutions for Animal Production





# Genomic evaluation



## Rapid development, Milestones

- Late 90' → SNP chips available for human genetics (genetic background of diseases / defects)
- 2001 Meuwissen et al. → genomic selection in animal breeding
- 2006 Schaeffer → dairy cattle breeding programs
  - genetic trend doubled, costs dramatically decreased
- 2008 54K Beadchip available
- Interbull joint meeting of ICAR Interbull in Niagara Falls, June, 2008
  - establishment of an Interbull task force genomics
- 2008 - current → intense R&D work in genomics
  - incorporated eg in Interbull / ICAR test for genomic evaluation systems
    - Implementation in various countries for selection purposes



# New genomic tools for selection and management

June 23, 2011, 8:30 – 10:30



- State of the art of genomic selection
  - (D. Boichard, Fr)
- Plans of the future activities of Interbull in genomics
  - (J. Dürr, Sw)
- Potential application of genomic information beyond breeding
  - (M. Winters, Gb)
- Research and development in nutrigenomics
  - (Mark Gaffney, Ie)





Thank you for your attention