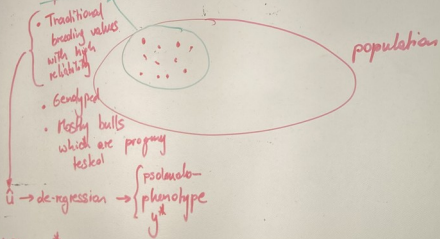


With respect to parameter estimation, there are two possible approaches:

1. Two-step approach (cattle)  
(Pigs, cattle moving forwards)
2. Single-step

Two-Step (mostly done with MEM)

Step 1: Estimation of marker-effects in a so called reference population



MEM:  $y^* = \mu + q_1 + q_2 + \dots + q_k + E$  using fixed linear effect model.