Simplify by : M is constant = Var(a)= · covariance between random variable and constant is O $=D \operatorname{Cov}(u, BV_{ij}) = \operatorname{Cov}(u, J_{ij}) = 0$ · cov (BVij, Dij)=0 var(Vij) = var(Blij) + var(Dij) = PA + FD In real world populations, most quantitative

In real world populations, most quantitative traits are influenced by many loci. This is a scientifically reasonable arresult from more than loyears of genomic selection.

= D Extend genetic model to more than 1 Locus

- For one locus: Decomposition of Vij Vij = M + Bij + Dij