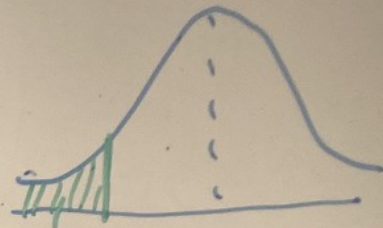


Success of a given selection strategy is quantified by the selection response (R)

$$R = i \cdot r \cdot \sigma_g$$

selection intensity



the smaller the surface
the larger i

r : accuracy of the available information
to describe genetic background
(statistics: correlation between information
and the genetic value responsible
for the trait)

→ Example: information = phenotypic observation
of methane

correlation is the square root of heritability

σ_g : genetic standard deviation