Intermediate phenotyping step **Cherry vs. Cranberry Cranberry vs. Strawberry** Strawberry vs. Cherry Α alternative environment alternative environment alternative environment Fitness difference in Fitness difference in Fitness difference in 0.5 0.0 $r^2 = 0.66$ **Test fruit** -0.5 $r^2 = 0.51$ $r^2 = 0.6$ Cherry Cranberry -0.50.0 0.5 Strawberry -1.0Fitness difference in Fitness difference in Fitness difference in selective environment selective environment selective environment Selection fruit Final phenotyping step Cherry Cherry vs. Cranberry Cranberry Ε **Cranberry vs. Strawberry** Strawberry vs. Cherry environment alternative environment alternative environment Strawberry 1.0 -Fitness difference in Fitness difference in Fitness difference in 0.5 0.5 0.5 0.0 0.0 0.0 alternative -0.5 $r^2 = 0.72$ $r^2 = 0.6$ -1.0 --0.5 -0.0 -1.0 -0.5 0.0 -0.50.5 0.5 0.5 1.0 Fitness difference in Fitness difference in Fitness difference in selective environment selective environment selective environment