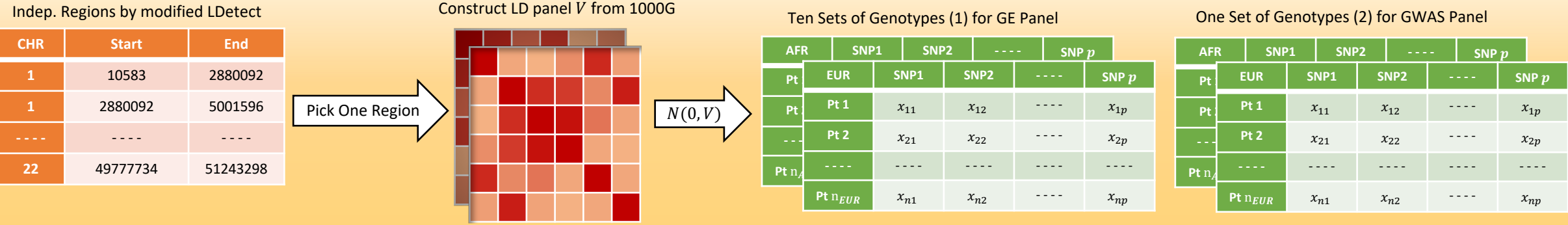
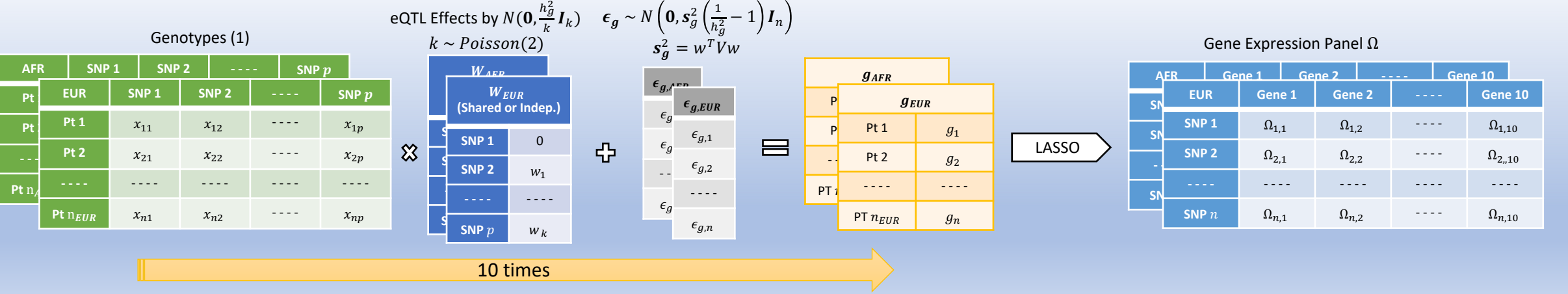


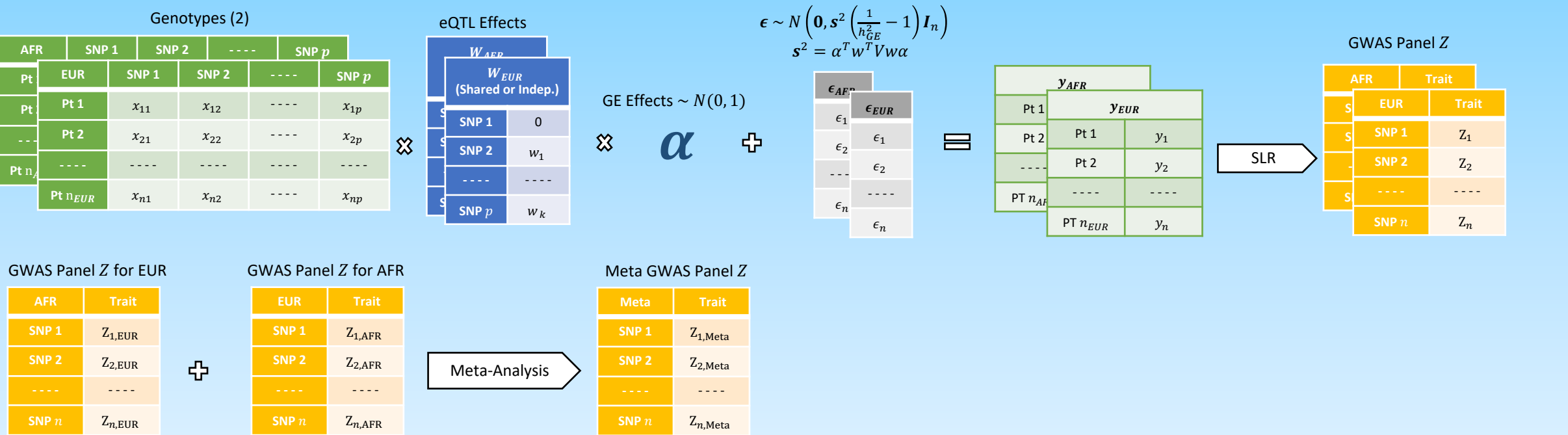
Step 1: Simulate LD Reference Panel and eleven sets of genotypes



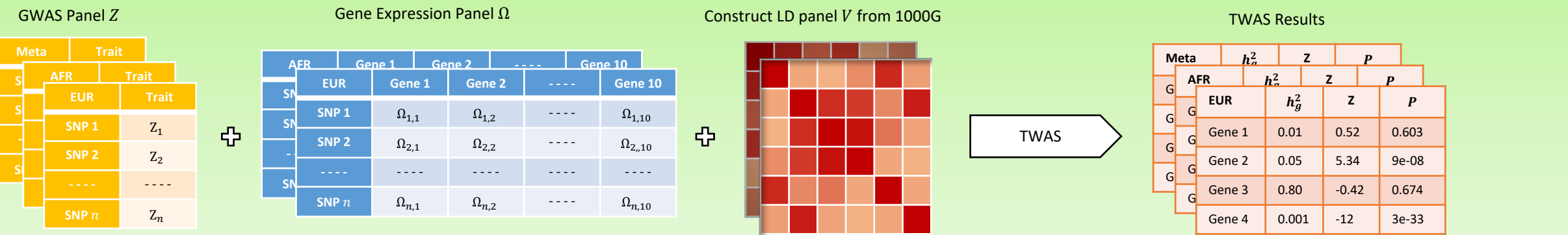
Step 2: Simulate Gene Expression Reference Panel



Step 3: Simulate GWAS Panel (pick one of the 10 genes as causal in Step 2 to use its eQTL effects)



Step 4: Perform TWAS on EUR, AFR, and Meta separately



Step 5: Perform fine-mapping using MA-FOCUS on EUR and AFR, and FOCUS on EUR, AFR, and Meta separately

