Head-to-Head Method Performance Comparison Statistical Power vs Sample Size Effect Size Detection vs Sample Size 1.0 Cluster Based Cluster Based 0.42 Density Aware Kde Density Aware Kde **Equiprobable Equiprobable** Sliced Wasserstein Sliced Wasserstein 0.40 8.0 Wean Lest Distance 0.36 0.34 0.32 Statistical Power 0.30 0.2 0.28 0.0 600 500 700 200 300 400 500 700 800 900 100 200 300 400 600 100 800 900 **Sample Size Sample Size Method Consistency Overall Method Ranking** (Lower = More Consistent) 0.933 0.767 Cluster Based 8.0 **Coefficient of Variation** 0.613 0.606 0.661 Equiprobable 0.582 0.660 Density Aware Kde 0.2 0.600 Sliced Wasserstein 0.0 0.1 0.2 density aware 0.0 0.4 0.5 0.6 0.7 8.0 equiprobable cluster sliced wasserstein based **Composite Performance Score** kde