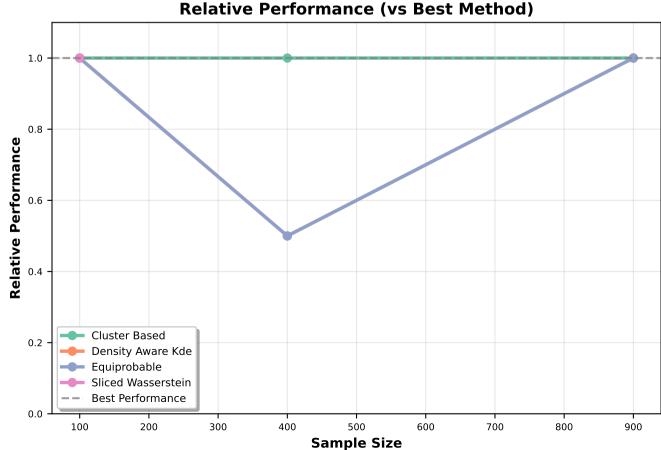
Method Performance Progression with Sample Size
Power Curves with 95% Confidence Intervals

Effect Size Detection vs Sample Size Cluster Based Cluster Based 1.0 0.42 Density Aware Kde Density Aware Kde **Equiprobable Equiprobable** Sliced Wasserstein Sliced Wasserstein 0.40 8.0 **Test Distance** Statistical Power 0.36 **E** 0.32 0.30 0.2 0.28 200 400 500 600 100 200 400 500 600 100 300 700 800 900 300 700 800 900 **Sample Size Sample Size Relative Performance (vs Best Method)** 



## Sample Size Recommendations (Target: 80% Statistical Power)

Method	Min Size (80% Power)	Optimal Size	Max Power	Adequate Power
Cluster Based	400	400	1.000	1
Density Aware Kde	N/A	100	0.500	Х
Equiprobable	N/A	100	0.500	Х
Sliced Wasserstein	N/A	100	0.500	Х