Approximating the Silhouette IN PRACTICE \* C = (C1, C2, .., CK) P= C1 UC2U...UCK x t = sample size (per cluster) \* ti = min {t, |Cil} 14 i & k 1) For each Ci (1616k) compute a so mple Si = Ci selecting cach point x & Ci with probability ti/10:1 Obs. If |ci| < \( \) => ti= |ci| => Si= Ci

Approximating the Silhouette Only one soughe Si or each cluster Ci must be computed! For each peP (say peCi) ~ P = 1 | Cil . Ed (4, 2)