Connected Components Data Structure Size Comparison Sketching vs. alternatives 200 -173 GB 150 space required for entire data structure (GB) 100 -82 GB 50 -13 GB 0 -100,000 200,000 300,000 400,000 500,000 Ö # nodes in input graph Break-even points boost adjacency list. 32B per edge sketch_slim. 12B per bucket sketch. 16B per bucket Data Structure boost adjacency matrix. n^2 bytes networkx edge list. 40B per edge sketch_slimmer. 6B per bucket