(a) Single Species **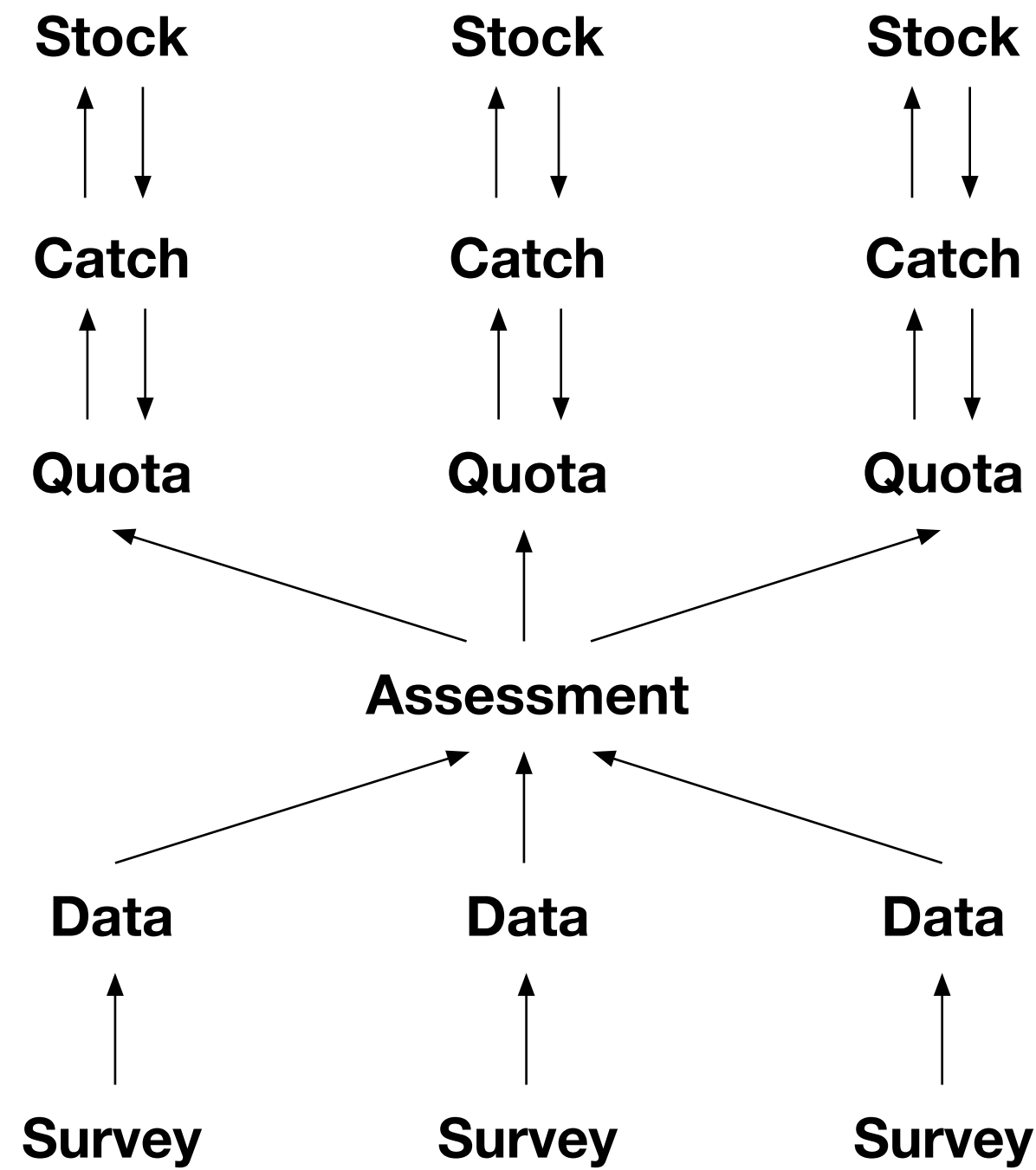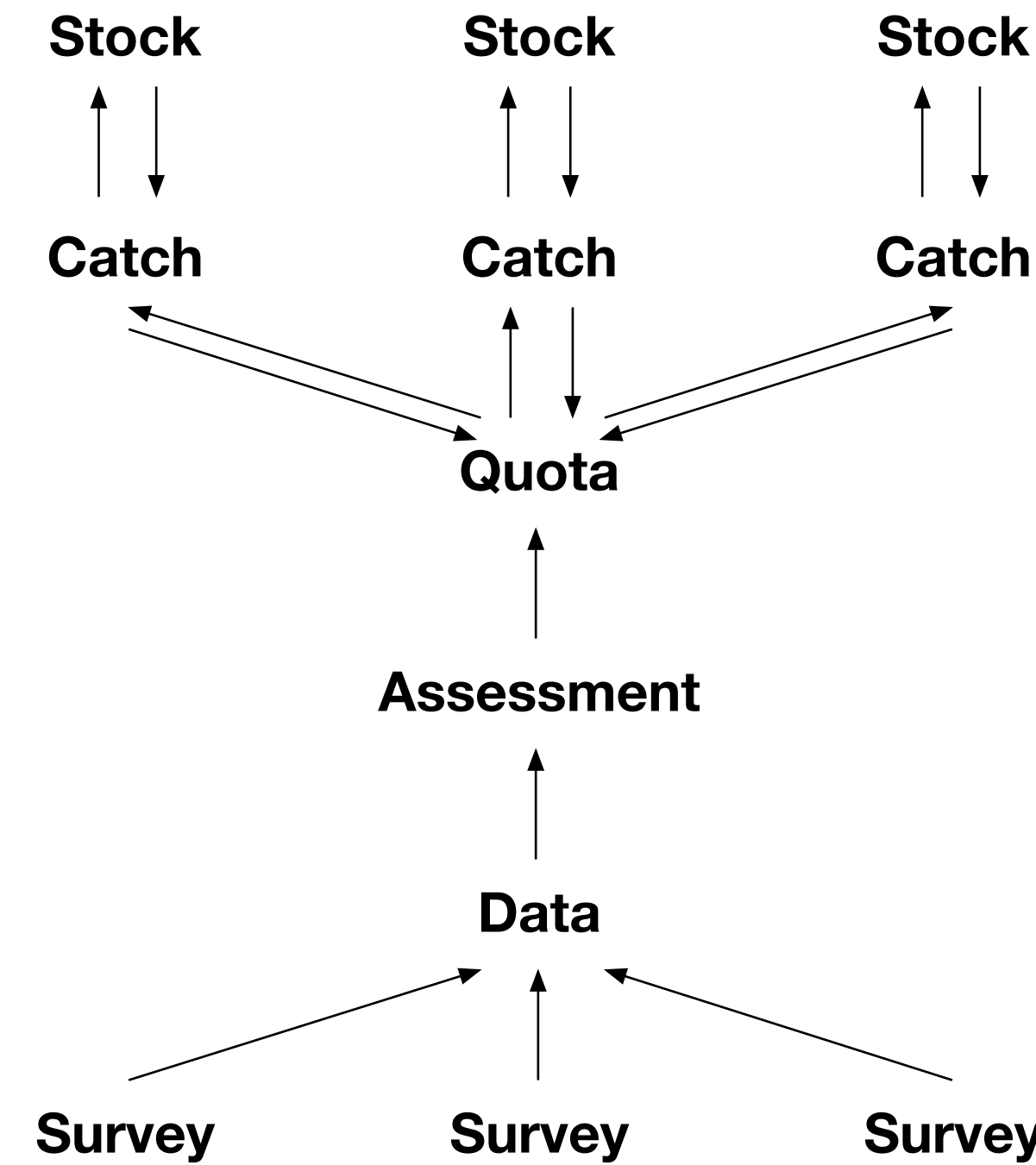(b) Hierarchical Model** **(c) Total Aggregation**