Define good ‘k’ in k-mean!

Ans:

We can try looking at the square mean of the clusters from each centroid and check for which k it turns out to be the least. If for some k (say 4) we have the centroids position themselves exactly at 4 clusters, then intuitively they are supposed to have smaller individual square means (for each of the 4 centroids individually...). But if it becomes 2 then the square mean might increase...since sum clusters are spacially apart if grouped as one...