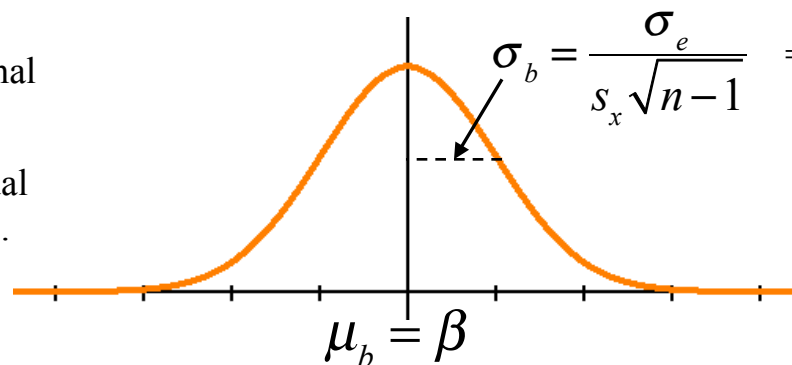


Conditions for Linear Regression

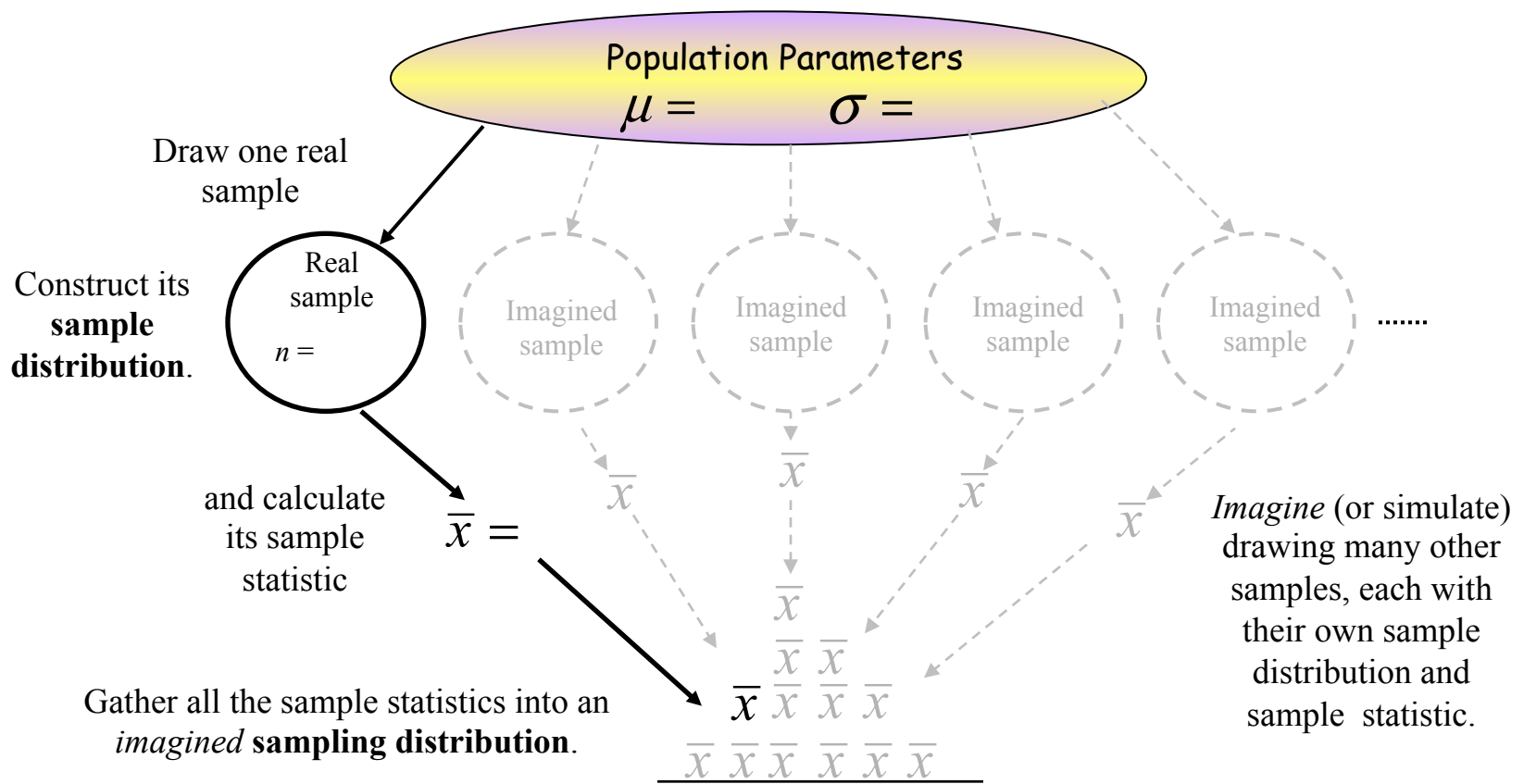
- \_\_\_ **L**inear - Scatterplot straight enough.
- \_\_\_ **I**ndependent data. (10% condition for sampling without replacement from finite population.)
- \_\_\_ **N**ormal – residuals nearly normal with no outliers.
- \_\_\_ **E**qual Variance – check for equal scatter in residuals for all x-values.
- \_\_\_ **R**andom – Random sample or random assignment

Central Limit Theorem



The mean of the Normal model will be the population parameter





**Central Limit Theorem**

Conditions:

- 10% condition
- Normal Condition
- $n \geq 30$  if population not Normal (or unknown)

