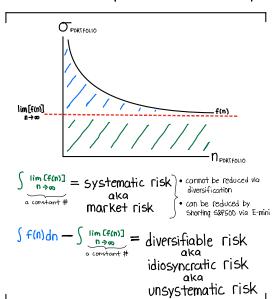


*while the feosible set may be composed of realized returns, the frontier itself is an ESTIMATE i.e., always apply your E(R) equation - CAPM-to a fixed-width, linear series of hypothetical numbers.

$$\sigma_{i} = \sqrt{Var(E(R)_{i})} = \sqrt{\frac{\sum_{i=1}^{n} (E(R)_{i}^{n} - \mu)^{2}}{n}}$$

Denotes standard deviation of E(R); and is the conventional measure of TOTAL risk as per Modern Portfolio Theory



The constrained optimization problem becomes either:

- maximize return for a given level of risk
- 2 minimize risk for a given expectation for return