



$$\text{Transfer cost } (T) = \sum_{t=0}^{T^*(x)} c(x_t^*, u_t^*)$$

$$\text{Regulation cost } (R) = \sum_{t>T^*(x)}^{\infty} c(x_t^*, u_t^*)$$

Infinite horizon control = minimize total cost ($T+R$) by finding the optimal insertion time $T^*(x)$, along with optimal control u_t^* , $t < T^*(x)$.