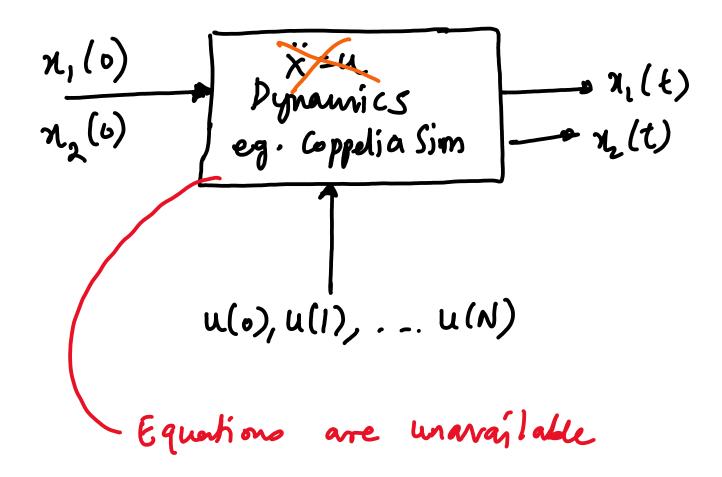
## 1) Shooting method

- Treat the approunics as a blackbox.



$$x_{2}(0) = 0$$
 initialized in  $x_{2}(0) = 0$  The simulator.

$$X_1(T) = D$$

$$X_2(T) = 0$$

$$X_1(T) = D$$

$$X_2(T) = 0$$

$$2 constraints$$

Optimization variables: N+2 Constraints: 2

free variables (N+2) - 2 = N