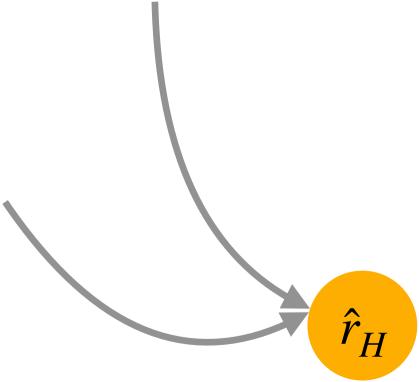
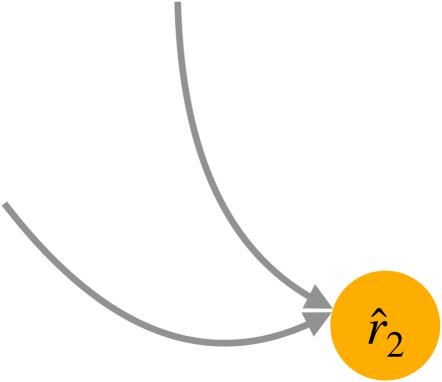
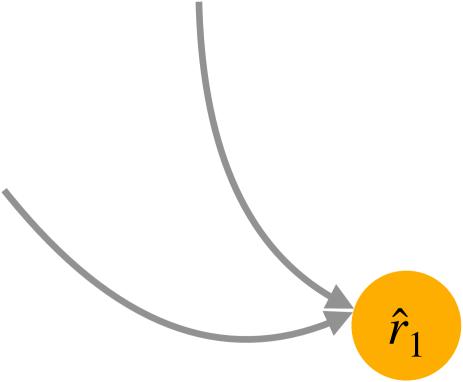
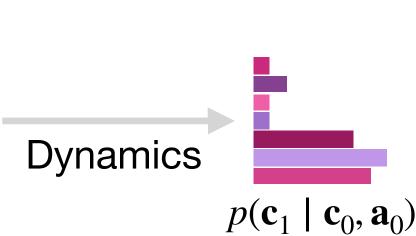
#### FCAI fcai.fi

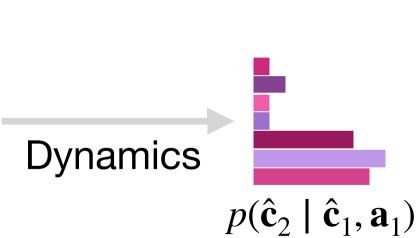






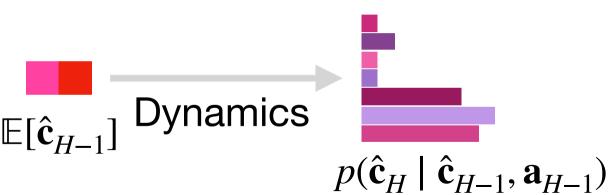


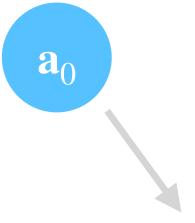


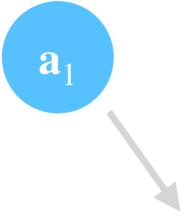


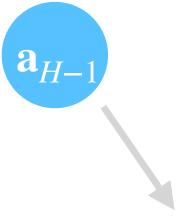










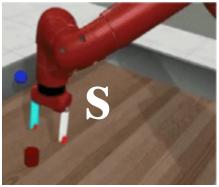












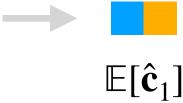
# DCWM: Decision-time Planning

 $J(\mathbf{a}_{0:H},\mathbf{s}) = \gamma^H Q_{\psi}(\hat{\mathbf{c}}_H,\mathbf{a}_H) + \sum_{h} \gamma^h R_{\xi}(\hat{\mathbf{c}}_h,\mathbf{a}_h)$ 

$$\mathbb{E}[\hat{\mathbf{c}}_{h+1}] = \sum_{i=0}^{|\mathcal{C}|} \Pr(\hat{\mathbf{c}}_{h+1} = \mathbf{c}^{(i)} \mid \hat{\mathbf{c}}_h, \mathbf{a}_h) \quad \underline{\mathbf{c}^{(i)}}$$
prob. of code *i* code



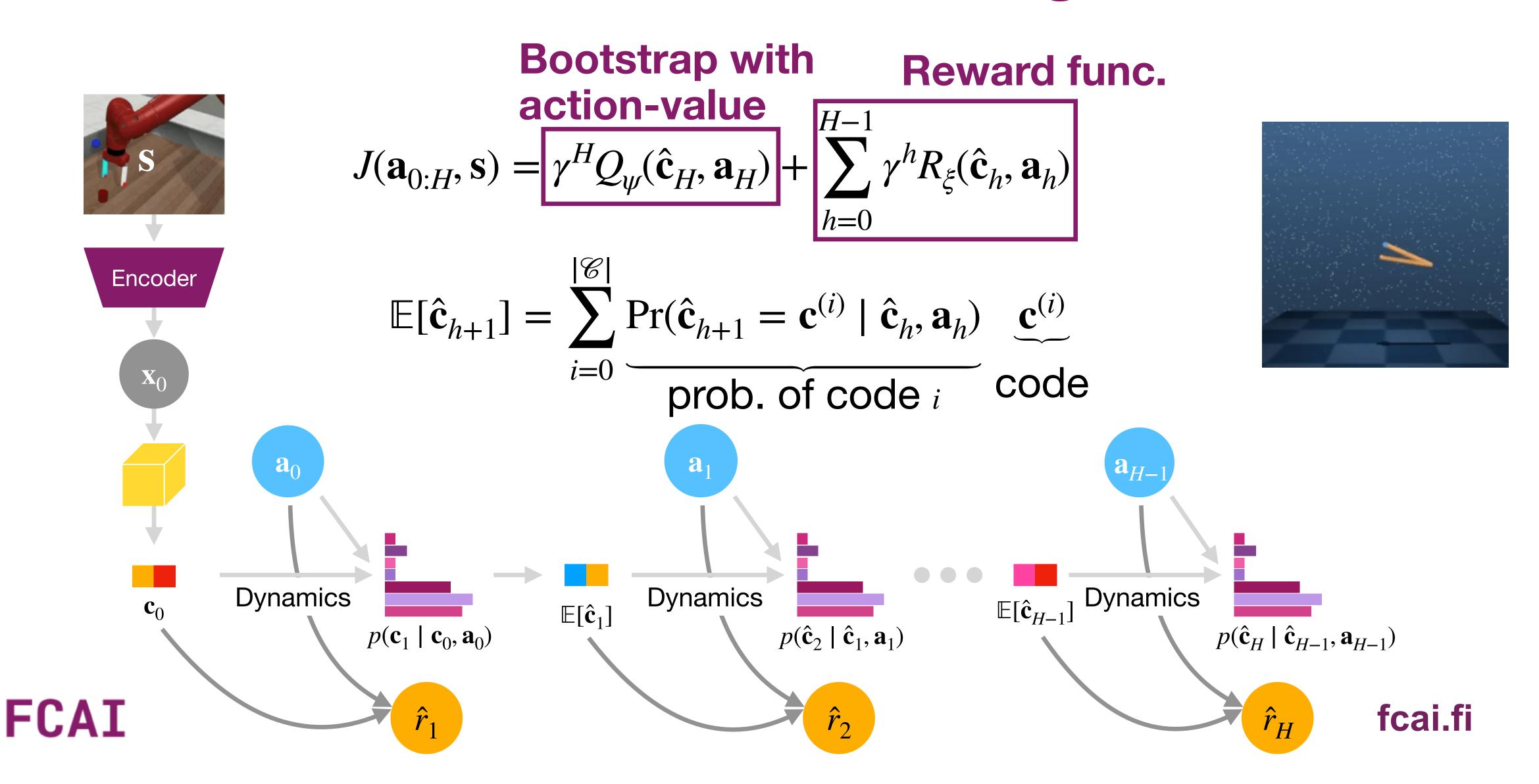
### **Bootstrap** with action-value







## DCWM: Decision-time Planning



### DCWM: Decision-time Planning

Model Predictive Path Integral Control (MPPI)

Iteration 1



