

Real space

Input: $i_{u,t}$

Physical twin
current state:
 $S_{u,t}$



Physical twin
intermediate state:
 $\hat{S}_{u,t+1}$



Physical twin
final state:
 $S_{u,t+1}$

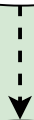
Virtual space

Input: $i_{u',t}$

Digital twin
current state:
 $S_{u',t}$



Digital twin
intermediate state:
 $\hat{S}_{u',t+1}$



Digital twin
final state:
 $S_{u',t+1}$

Synch: $\Delta \hat{S}_{u'}$

Synch: $\Delta S_{u'}$