

$i=1, \dots, N=10$ particles

$$\{\tilde{x}_{t-1}^{(i)}, N^{-1}\}$$

$$\{\tilde{x}_{t-1}^{(i)}, \tilde{w}_{t-1}^{(i)}\}$$

$$\{x_{t-1}^{(i)}, N^{-1}\}$$

$$\{\tilde{x}_t^{(i)}, N^{-1}\}$$

$$\{\tilde{x}_t^{(i)}, \tilde{w}_t^{(i)}\}$$

