Prediction Filtering
Distribution Distribution

$$\mathbf{m}_0, V_0 \longrightarrow \mathbf{m}_{1|0}, P_{1|0} \xrightarrow{\mathbf{y}_1} \mathbf{m}_{1|1}, P_{1|1}$$

$$\mathbf{m}_{2|1}, P_{2|1} \xrightarrow{\mathbf{y}_2} \mathbf{m}_{2|2}, P_{2|2}$$

$$\mathbf{m}_{n|n-1}, P_{n|n-11} \xrightarrow{\mathbf{y}_n} \mathbf{m}_{n|n}, P_{n|n}$$

 $\mathbf{m}_{n+1|n}, P_{n+1|n} \xrightarrow{\mathbf{y}_{n+1}} \mathbf{m}_{n+1|n+1}, P_{n+1|n+1}$