

$$\begin{array}{ccccccc}
 V_{\text{ext}}(\mathbf{r}) & \xleftarrow{\text{HK}} & n_0(\mathbf{r}) & \xleftrightarrow{\text{KS}} & n_0(\mathbf{r}) & \xrightarrow{\text{HK}_0} & V_{\text{KS}}(\mathbf{r}) \\
 \Downarrow & & \Uparrow & & \Uparrow & & \Downarrow \\
 \Psi_i(\{\mathbf{r}\}) & \Rightarrow & \Psi_0(\{\mathbf{r}\}) & & \psi_{i=1,N_e}(\mathbf{r}) & \Leftarrow & \psi_i(\mathbf{r})
 \end{array}$$