

$$A = XW + B$$

$$z_1 = h(A_1)$$

$$Z_{1} = \begin{bmatrix} Z_{1} & ... & Z_{50} \end{bmatrix}$$
 W_{2} $\begin{bmatrix} W_{11} & W_{21} & ... & W_{100} \\ W_{12} & ... \\ \vdots & ... \\ W_{150} & W_{100} & 50 \end{bmatrix}$ $B_{2} = \begin{bmatrix} b_{1} \\ \vdots \\ b_{100} \\ \vdots \\ b_{100} \end{bmatrix}$

$$Z_2 = \begin{bmatrix} Z_1 & Z_{00} \end{bmatrix}$$

$$Z_{2} = h(A_{2})$$

$$Z_{2} = \begin{bmatrix} Z_{1} & ... & Z_{100} \end{bmatrix} \quad W_{3} = \begin{bmatrix} W_{11} & W_{21} & ... & W_{10} \\ W_{12} & ... & ... \\ W_{1500} & W_{100} \end{bmatrix} \quad B_{3} = \begin{bmatrix} b_{1} \\ \vdots \\ b_{10} \end{bmatrix}$$

$$X_{100}$$

$$\mathcal{B}_{3} = \begin{bmatrix} b_{1} \\ \vdots \\ b_{1} \end{bmatrix}$$

$$A_3 = Z_2 W_3 + B_2$$

 $Y = h(A_3)$