

$$1. X = h[R|t]x$$

$$x_{cam} = Rx + t$$

$$x = R^T(x_{cam} - t)$$

$$x_o = R^T \left(d \cdot \frac{h_o^T}{\|h_o^T\|} - t \right)$$

3D point with depth d : $dh^{-1}x$

$$x_c = d \cdot \frac{v}{\|v\|}$$