

1) Photo Consistency assumption IN(x) = IN(T(Gx)) -> transformation 5/w framer GESE(3) E= (W, W, W, V, V, V, ) & R6 [Y] = [O -2 y] [z] = [O -x] ( skew symmetric motrix)  $\mathcal{L} = \begin{bmatrix} |\omega|, & v \\ 0 & 0 \end{bmatrix}^{2} \begin{bmatrix} 0 & -\omega_{3} & \omega_{2} & v_{1} \\ \omega_{3} & 0 & -\omega_{1} & v_{2} \\ 0 & 0 & 0 & 0 \end{bmatrix}$ (Represented in the algebra)  $-\omega_{2} \omega_{1} & 0 & v_{3} \\ 0 & 0 & 0 & 0 \end{bmatrix}$ G(E) 2 e (lie algebra to lie group mapping) matrix exponential -) | R T | R E SO(3), T E R3 ( lie gnoup )