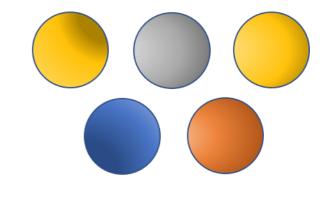
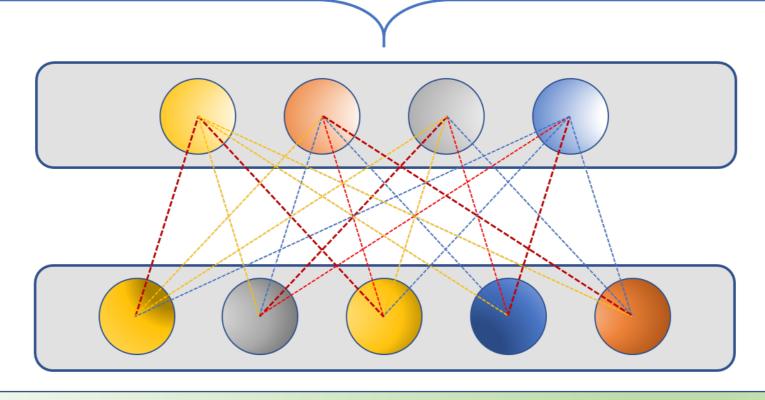




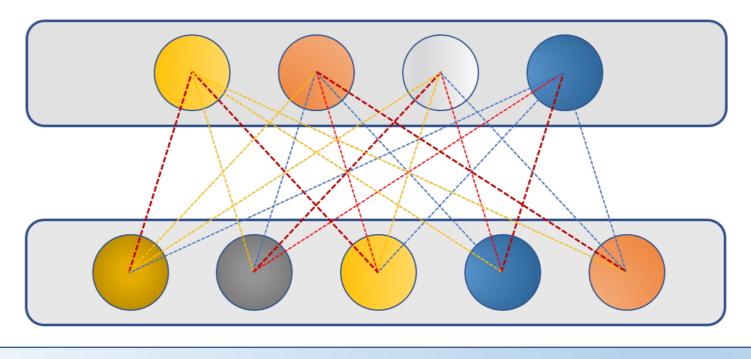
$$\begin{vmatrix} s_{00} & \cdots & \cdots & s_{0J} \\ \vdots & \ddots & s_{ij} & \vdots \\ s_{I0} & \cdots & \cdots & s_{IJ} \end{vmatrix}$$



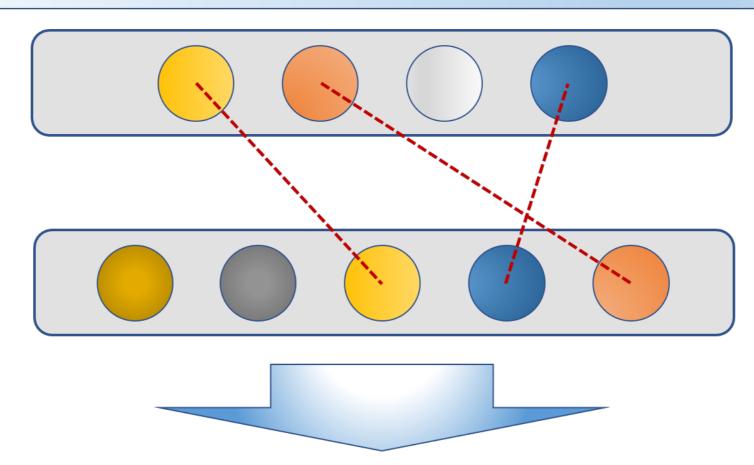
detections in frame t



## Feature Update Layer



## Relation Update Layer



Optimal Association Matrix  $X^*$