

$$\begin{array}{c}
u, v, w \text{ should not be free} \\
\text{in } \Gamma, \varphi, \varphi' \\
\varphi(v, w) \triangleq \varphi[v/x, w/y] \\
\varphi'(v, w) \triangleq \varphi'[v/x, w/y]
\end{array}
\quad
\frac{\Gamma, (\text{TC}_{x,y} \varphi)(u, v) \Rightarrow \varphi(v, w) \rightarrow \varphi'(v, w)}{\Gamma, (\text{TC}_{x,y} \varphi)(u, v) \Rightarrow (\text{TC}_{x,y} \varphi')(u, v)} \quad (\text{TC-frame})$$