

⇒ Choose to pick as reference the mean value of the ad-valorem cost in 1974

⇒ Build the index Γ_t such that:

$$\Gamma_t = \frac{\bar{\tau}_{1974} \cdot \exp(\gamma_t) - 1}{\bar{\tau}_{1974} - 1}$$

- With $\bar{\tau}_{1974} = \exp(\delta + \sum_i \alpha_i + \sum_k \beta_k)$ the mean TC in 1974

- For the additive component, get after estimating Equation (??):

$$\begin{aligned}\hat{t}_{ik74} &= (\delta + \alpha_i + \beta_k) \\ \hat{t}_{ikt} &= (\delta + \alpha_i + \beta_k) \cdot \exp(\gamma_t), \quad \forall t > 1974\end{aligned}$$

- From which we deduce:

$$\hat{t}_{ikt} = \hat{t}_{ik74} \times \exp(\gamma_t)$$

- With $t > 0$, obtain the percentage change from 1974 through:

$$\Rightarrow \Gamma_{ikt}^{add} = 100 \exp(\gamma_t)$$