

$$b_2^{\text{MHK}} = \frac{\sum_{i=1}^n (p_i - \bar{p})(w_i - \bar{w})}{\sum_{i=1}^n (w_i - \bar{w})^2} = \frac{\sum_{i=1}^n ([\beta_1 + \beta_2 w_i + u_{\text{pi}}] - [\beta_1 + \beta_2 \bar{w} + \bar{u}_p])(w_i - \bar{w})}{\sum_{i=1}^n (w_i - \bar{w})^2} = \frac{1}{1} = 1 + \frac{0}{1}$$

(1)