







#### Introduction (cont.)

- Very few studies on investigating the relation between FDI and economic growth in Vietnam-"management approach"(e.g. Pham Hoang Mai, K. Ohno)
- Data insufficiency and short time period
- More up-to-date data and a newly developed methodology: simultaneous determination of capital stock and TFP growth in Vietnam + regression analysis





- standard growth-accounting framework
- estimation of growth equations based on neo-classical theory
- causality problem
- omitted variables
- non-stationary time-series data

#### Estimating Capital Stock -Methodology-

simultaneously determination of capital stocks and TFP growth

$$YG = \omega .LG + (1 - \omega) .KG + TG$$
$$KG = \frac{I}{K} - \delta$$

$$K = \left[ (1 - \omega) / (YG - \omega LG - TG + (1 - \omega)\delta) \right] I$$

### Methodology (cont)

PIM

$$K(t+1) = (1-\delta)K(t) + (I(t) + I(t+1))/2$$
$$K(t-1) = \left[K(t) - (I(t) + I(t-1))/2\right]/(1-\delta)$$











- Regression analysis
- FDI and domestic investment
- FDI and economic growth

### **FDI and Domestic Investment**

**Empirical Equation** 

$$GDCF_{t} = \alpha + \beta FDI_{(t-1)} + \gamma GDP_{(t-1)} + \varepsilon_{i}$$











# FDI and Economic Growth (cont)

#### **OLS** estimates

 YG=-0.014+0.125DomKG+0.134FDIG+0.045ODAG+0.230LG+0.229TFPG+0.052EG

 t-stat(-0.01) (4.65)
 (7.47)
 (3.69)
 (0.89)
 (7.86)
 (3.54)

 Adjusted R-squared:
 0.98
 Durbin-Watson:
 1.51

 Prob(F-statistic):
 0.000

## FDI and Economic Growth (cont)

- FDI are positively related with economic growth
- TFP growth is important determinant of economic growth
- The robustness of result is confirmed by sensitivity analysis



- a pioneering study in estimation and decomposition of capital stock in Vietnam
- Applying traditional approach: growthaccounting and econometrics
- FDI is found to be crowding-in domestic investment
- FDI is positively related with growth



two considerable drawbacks:

- the quality of data and sufficient length of time-series
- the methodology of statistical analysis (simple OLS, causality test)

However, results show that new wave of FDI inflow into Vietnam is needed

