## Time Stries

· Cross-Sectional Parta

Panel bata

ADL (ARDL)

4DL (p.g)

Problem 1.

Problem 2

ADL (1,0)

-

$$(1-\beta_3L)$$
  $y_t = \beta_1 + \beta_2 x_t + u_t$ 

$$\frac{\gamma_{+}}{1-\beta_{2}} = \frac{1}{1-\beta_{2}} + \frac{\beta_{2}}{1-\beta_{2}} \times \frac{\gamma_{+}}{1-\beta_{2}} = \frac{\gamma_{+}}{1-\beta_{2}} = \frac{\beta_{+}}{1-\beta_{2}} = \frac{\beta_{+}$$

(exclugencity)

Short tenh:

$$\frac{1}{y} = \beta_1 + \beta_2 \times + \beta_3$$

$$(1-\beta_3)\overline{y} = \beta_1 + \beta_2 \overline{\chi}$$

$$\frac{1}{1-\beta^3} + \frac{\beta^2}{1-\beta^3}$$

Long-tenn oranginal effect

1-13 - B2 + B2 F3 + B2 ....

0,03 long, fam. effett 1 - 0,85