

# Pooling Cross Sections across Time

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## Pooling Independent Cross Sections across Time

→ random samples from a popul.  
at diff. time pds.

- Data
- Model

$d_2 \dots d_T$  : dummy vars.  
for pds. 2 through

$$y = \beta_0 + \delta_0 d_2 + \delta_1 d_3 + \dots + \delta_{T-2} d_T + \beta_1 x_1 + \dots + \beta_k x_k + u$$

convert nominal values to  
real values.

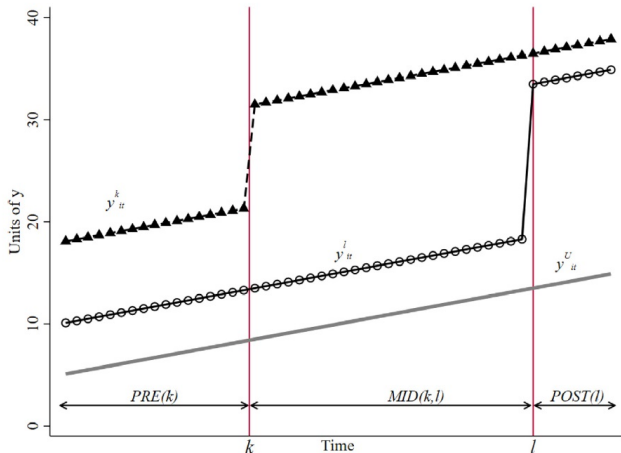
# Policy Analysis with Pooled Cross Sections

- Difference-in-differences (DID)
  - ▶ <https://youtu.be/eiff0VbYvNc>
- Example: effect of incinerator on housing prices



# Policy Analysis with Pooled Cross Sections (cont.)

- More complicated with staggered policies



Goodman-Bacon (2021)