

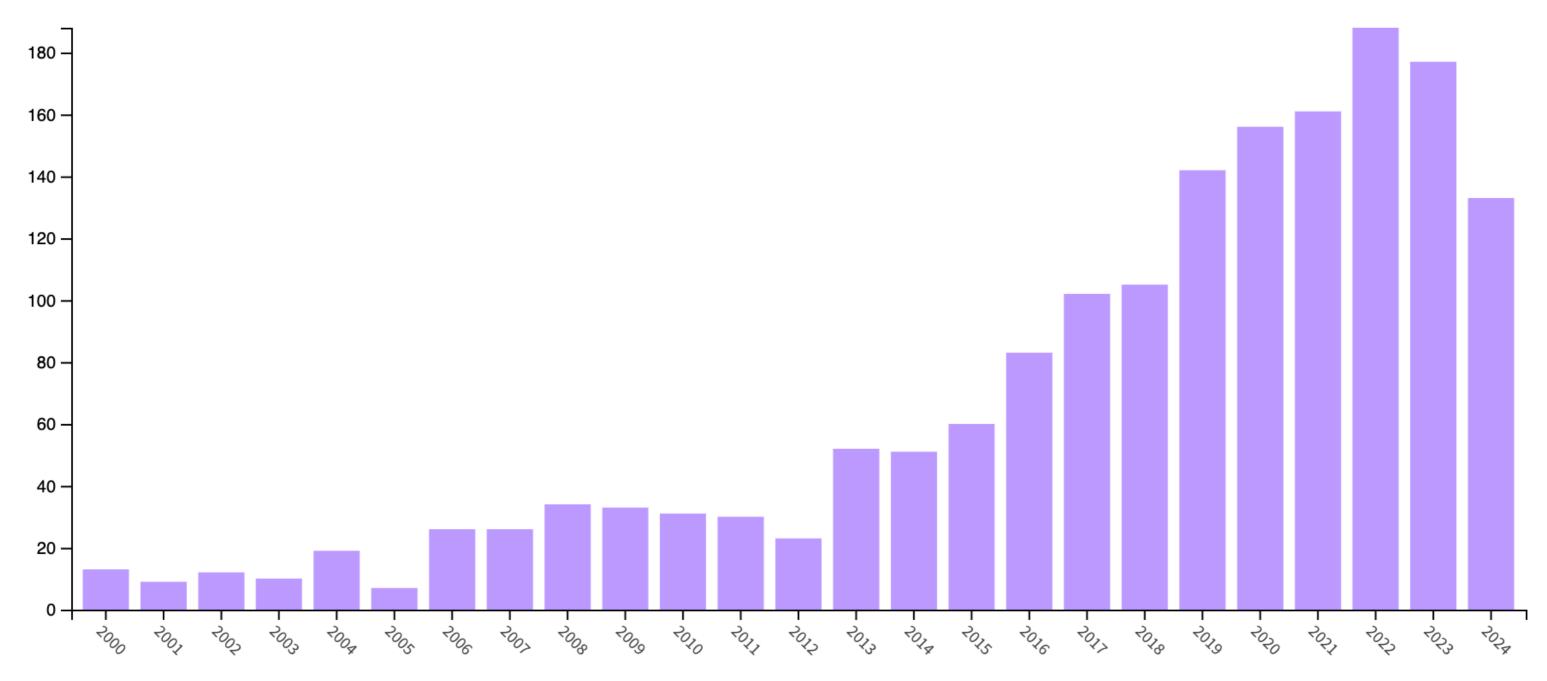






GHENT INSTITUTE FOR INTERNATIONAL AND EUROPEAN STUDIES

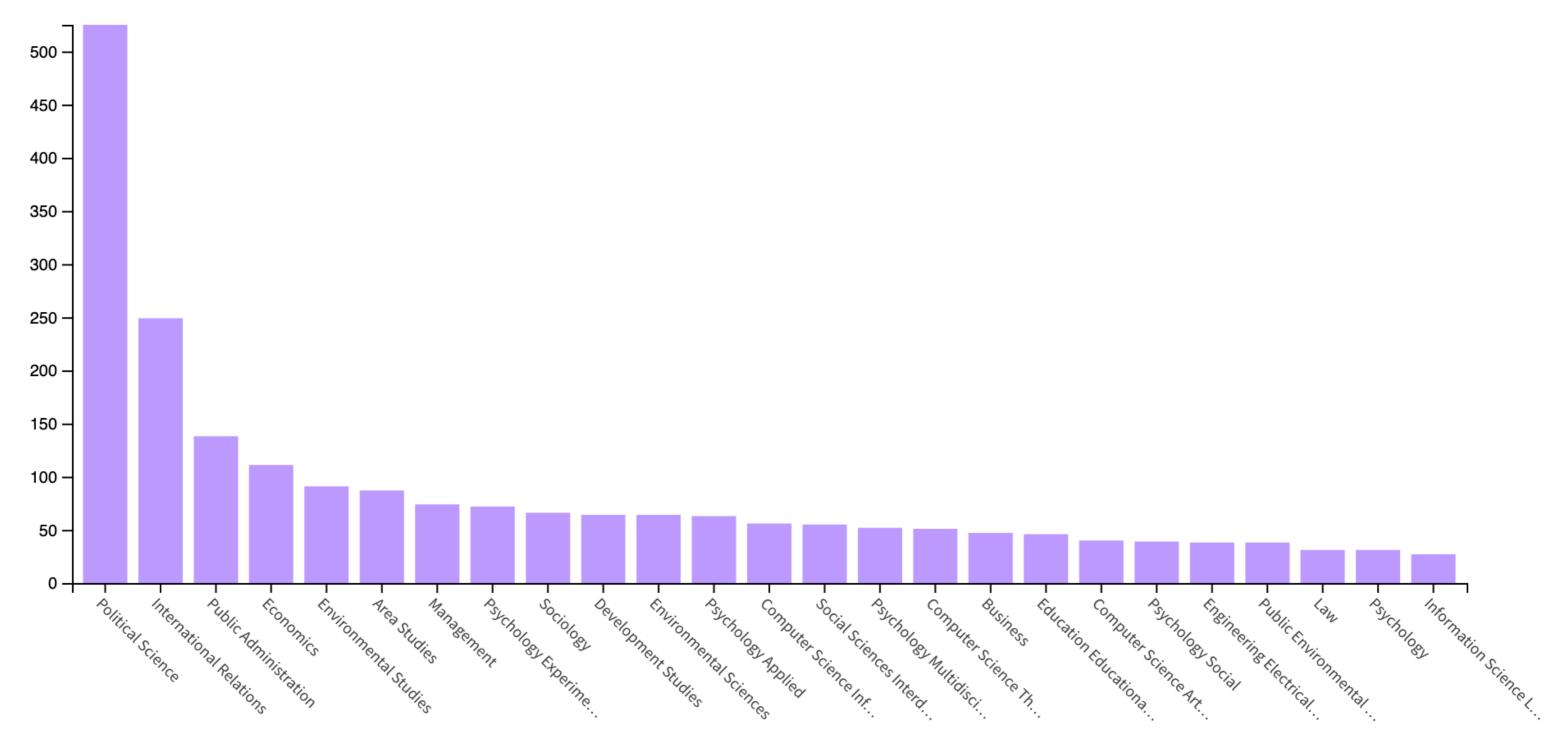
PT: INCREASINGLY POPULAR M





Source: Web of Science

MAINLY IN THE SOCIAL SCIENCES





Source: Web of Science

DOMINANT SCHOLARLY VIEW ON CAUSALIT

- "Counterfactual" or "covariational" definition
- Causality as "difference-making":

X is a cause of Y if a different value for X leads to a different value for Y

 Causality is assumed to be not directly observable, but to be detectable by studying cause-effect relationships





TESTABLE THROUGH LARGE-N QUANTITATIVE STUDIES

- Ideal: randomized controlled trial (RCT)
 - Isolate effect of treatment X on outcome Y through randomization and control
- Second-best (if RCT not possible for practical or ethical reasons): observational statistical analyses
 Isolate effect of cause X on outcome Y by controlling
 - Isolate effect of cause X on outcon for confounding varialess



Come Y through

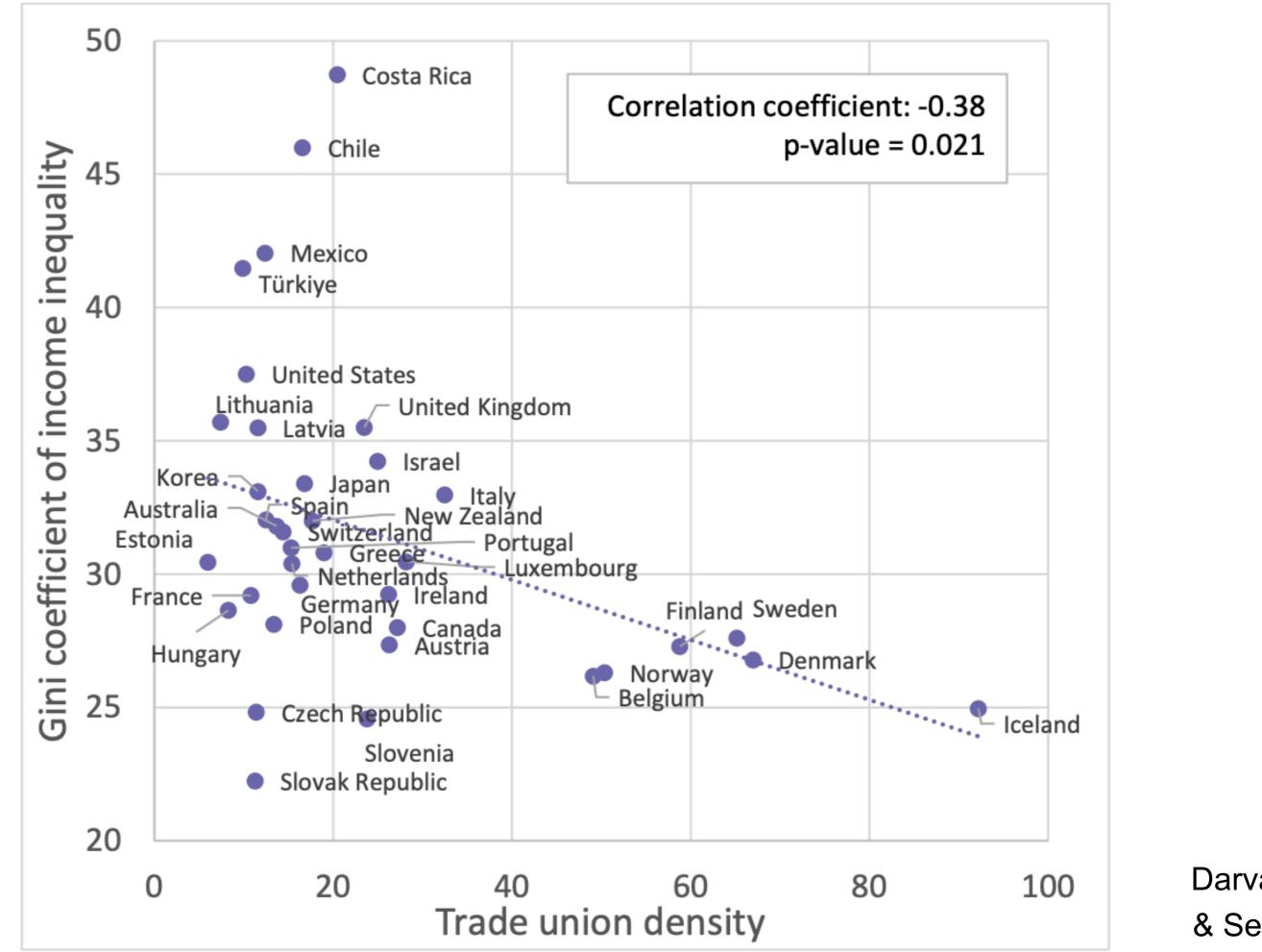
LIMITATIONS OF THIS VIEW ON CAUSALITY

Covariation is not causality

- Reversed causality?
- Selection bias?
- Ommitted confounding variables?
- No direct test of causal relationship: why/how does X cause Y?
- E.g. UN peacekeeping missions -> peace (duration)
- E.g. Trade union density -> income inequality



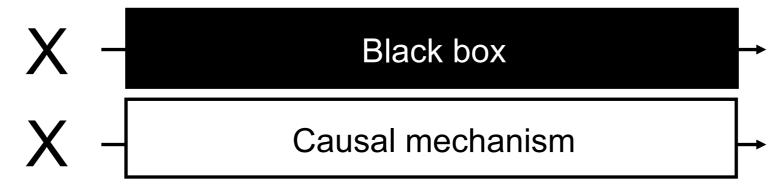




Source: Darvas, Giotti & Sekut 2023

DIFFERENT VIEW ON CAUSALITY: CAUSAL MECHANISM

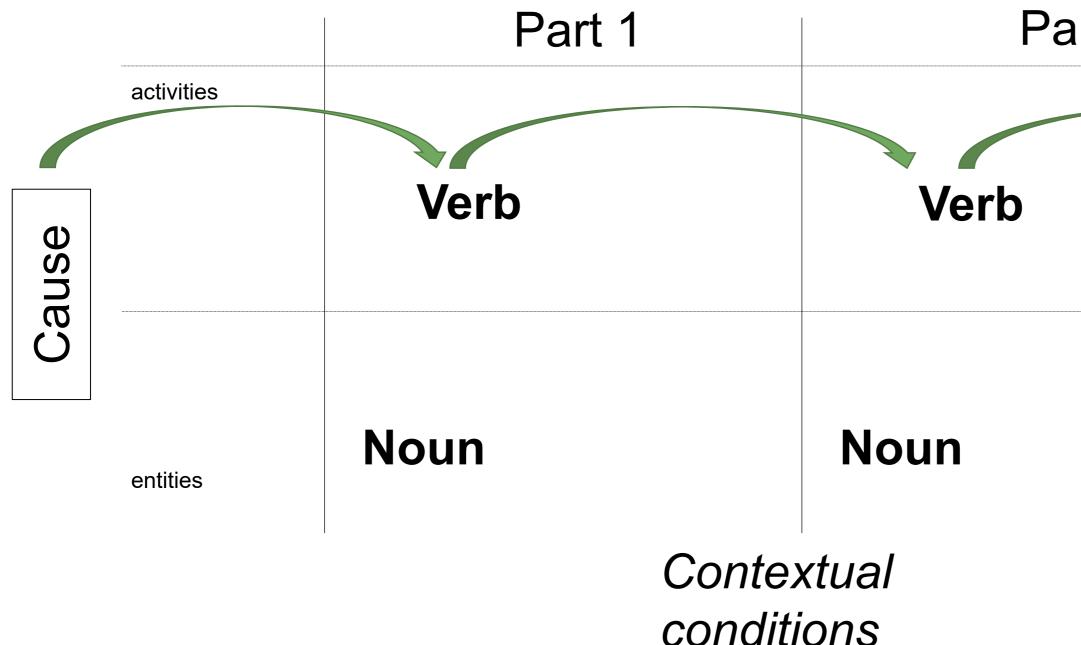
- CM = system of interlocking parts that transmit causal powers between a (set of) cause(s) and an outcome
- Assumes that causality/causal processes are directly observable
- "Opening the black box"





Y

CAUSAL MECHANISM AS SYSTEM

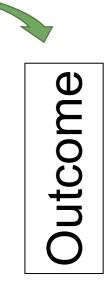




Can be more complex, e.g. more parts, different causes, feedback loops, etc.



Part 2



ADDED VALUE OF PROCESS-TRACING

- Allows to confirm causal relationship (posited through) cross-case inference) with within-case evidence
- Allows to show how a cause leads to an outcome
- Provides detailed case-specific knowledge (strong internal validity)
- Limitations:
- Time- and energy-intensive
- Limited external validity





KEY STEPS IN (TT)PT ANALYSIS

- 1. Conceptualisation
- 2. Case selection
- 3. Operationalization
- 4. Collection and evaluation of data
- 5. Generalization

(different order in theory-building PT)



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CONCEPTUALIZATION

Translation of theory to causal mechanism – E.g. tax competition

| corpo | <u>try A</u> <i>lowers</i> prate tax rate icantly | | <u>Firms</u> in Country B <i>threaten</i> to move their activities | Government in B fears employment and revenue losses |
|-------|---|---|--|---|
| | | С | ontextual condition: | |

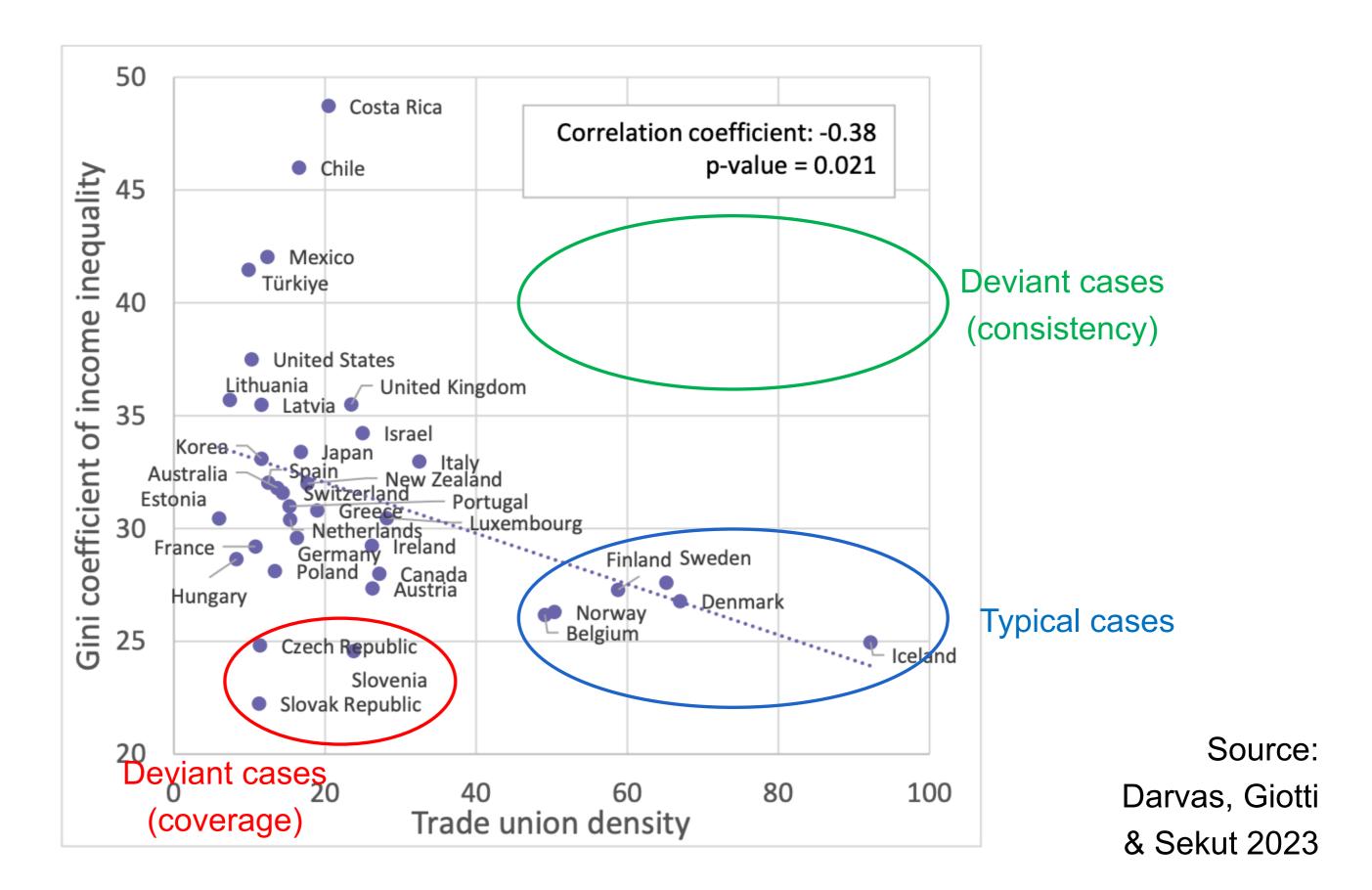
Sufficient capital and trade mobility between A and B

Provides sufficient explanation for how X causes Y, with each step **necessary** part of CM



Country B lowers corporate tax rate significantly

CASE SELECTION



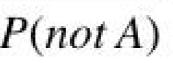


OPERATIONALIZATION

- Making concepts measurable?
- Data collection?
- Making inferences?
 - > Inspired by **Bayesian logic**:
 - Confidence we can have in an explanation (CM) depends on:
 - 1. Our prior confidence in this explanation
 - 2. The relationship between evidence we found (or not), our own explanation and alternative explanations

$$P(A \mid E) = \frac{P(E \mid A)P(A)}{P(E \mid A)P(A) + P(E \mid not A)}$$





OLLECTION AND EVALUATION OF DATA

- Data need to be interpreted to become evidence
- Check for:
 - False positives = is presence of evidence evidence of presence?
 - False negatives = is absence of evidence evidence of absence?





GENERALIZATION

- Difficult based on a single case study
 - One solution is to combine PT with comparative methods
 - Problem: "mechanistic heterogeneity"
 - Other solution: "snowballing outward": quick PT of cases that are gradully more different from original case

