BSSn4495: Qualitative research in security studies

Nuts and bolts of process tracing

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# **Agenda**

Process-tracing:
 advantages,
 disadvantages, issues,
 practice

# How to process trace?

Examining a <u>single</u> instance in which the outcome did or did not occur and trying to explain why.

- 1. We wonder: Does C cause E?
- 2. We see that E is present and that C is present in a case.
  - But this doesn't tell us that C caused E in that case.
    How could we figure that out?
- 3. Think about the causal logic through which C would have caused E if C did cause E.
- 4. Now investigate the case to see whether that causal logic in fact unfolded within the case.

## What caused DRC civil war?

• Ethnic tensions?

Causal logic(s):

Historical ethnic hatreds → desire by each group to dominate or extinguish the other → increase in violence by each side designed to dominate/extinguish other group → spirals into all-out war

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# **Process tracing tests**

#### **Hoop test**

- A test that a hypothesis has to pass for us to believe it (a "hoop" the theory has to jump through)
  - If hoop test failed: the hypothesis is greatly weakened
  - If hoop test passed: the hypothesis survives, but doesn't mean it's true

#### **Smoking gun test**

- A test that can point strongly to the correctness of a hypothesis
  - If smoking gun test failed: the hypothesis survives
  - If smoking gun test passed: the hypothesis is very likely true

# Process tracing tests (cont.)

#### Straw in the wind test

- Passing = hypothesis is relevant but not confirmed
- Failing = hypothesis is not eliminated but slightly weakened

#### Doubly decisive test

- Passing = hypothesis is confirmed and others are eliminated
- Failing = hypothesis is eliminated

# What happens when tests are passed or failed?

#### Asymmetric outcomes

	H fails	H passes
Hoop test	H <u>greatly</u> weakened	H slightly strengthened
Smoking gun test	H slightly weakened	H greatly strengthened

# **Process tracing tests: issues**

- Deterministic vs probabilistic conclusions from PT tests
  - Hoop test as necessary for the validity of hypothesis?
  - Smoking gun test as sufficient for the validity of hypothesis?
- Easy vs difficult PT tests
- Triviality of conditions
- Ideational "clues"

# **Process tracing: advantages**

- Yields in-depth knowledge of context
- Opportunity for discovery
  - Immersion in a case often suggests causal claims we hadn't thought of before
  - Not just testing theories, but developing new theories
- Avoids troubles with correlation

## **Process-tracing: practice**

- Choose a causal question
- Think of a cause that produces a somewhat lengthy causal chain to the effect
- Think of a causal logic/causal story that connects the cause to the effect
  - Causal logic:  $X \rightarrow p \rightarrow q \rightarrow r \rightarrow Y$
- What evidence would a researcher look for to support this causal logic in your case?

- Why are some countries poor?
- Resource curse → declined econ development
- Resource curse → corruption and monopolization of resource market → rentier state doesn't care about social/econ development → decline in economy