POLS 318: Theories of IR Lecture 2 (08.25.2020): Basics of Theory Construction

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Overview

- Quick review
- 2 Introduction
- Theory the Basics
- 4 Judging Theories
- 6 Extra Material

Review

What we covered last meeting?

- Syllabus, course procedures.
- Task 1.

Questions?? Email me!

Why Theory?

The puzzle: why do we need theories?

- Understand past/current events:
 - Why did World war I began?
 - What led to the establishment of NATO?
 - Why did the Soviets invade Afghanistan?
- Facts, historical events and their limitations.
- Theory vs. History.
- ullet Theory o past, present and future.

"Everybody uses Theory"



Why Theory?

Iran Nuclear Program



Iran Nuclear Program

Main Question: Nuclear technology - Military or Civilian?

FACTS

- Nuclear facilities (some secret).
- Thousands of centrifuges, enriching uranium.
- 'Fatwa' against nuclear weapons.

EXPLANATIONS

- Power regional deterrent.
- Religion martyrs.
- Supplant energy shortages.
- Scientific rules for studying reality.



Scientific Theories

Definitions

- Simplified representation of reality.
- Explain empirical phenomenon.
- Conditions for preventive war? Encourage economic growth?

Beyond the social context

- Theory in natural science.
- Objective deductive theory (general).

Scientific Theory

COMPONENTS

- Assumptions.
- 2 Logic.
- Predictions.

Assumptions

- The building blocks of theory.
- Simplifying conditions.
- Assumptions \rightarrow Hypotheses.
- Selecting assumptions why critical?

Theories - a single explanation?

One event - multiple theories

- Neorealism: unitary actor assumption.
- Bureaucratic theory: internal dynamics between actors and state actions.

Military Spending

- Security agencies manipulate threats.
- 'Required' spending on security.
- The importance of selecting assumptions.

Testing theories

Elements for testing

- Variables multiple values.
- Constants a single value.
- Dependent variable what we explain.
- Independent variables explain variation in DV.

Linking Variables

- Causal relationships between DV and IVs.
- Hypotheses (propositions): IVs \rightarrow DV.
- Hypothesis predict DV value (past and future).

Arms Races and War



Arms Races and War

Main DV:

Likelihood of a country enters a war

Common IVs:

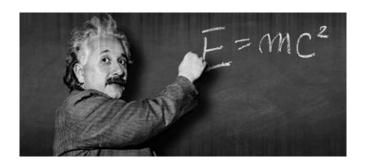
- Magnitude of Threat: extent of arms expenditures.
- Guns vs. Butter ratio.

Research Proposition:

- Increase in threat & 'Guns' \rightarrow War is more likely.
- Richardson (1949).

Types of Theories

Also had a theory...



- Middle range theories social science is hard!
- The principle of Parsimony.





EVALUATION CRITERIA

- Evidence: support or contradict our predictions.
- 2 Logical consistency: theory and assumptions.
- Outperform alternative explanations or not.

Evidence: Territory and War

- ullet Prediction: territorial disputes o war.
- Evidence: wars are more likely when issue is territory.
- Data \rightarrow theory.

Logical Consistency

- Clear description: how factors lead to outcomes.
- Assumptions cannot contradict harms prediction.
- Example: Realism
 - Power as main factor.
 - System has Status-Quo states?
- Challenge of logical consistency in social sciences.

Falsifiability

- Conditions in which predictions are Wrong.
- ullet Falsifiable theory o scientific.
- Religious beliefs.
- Terror groups lethality: cooperation or competition.



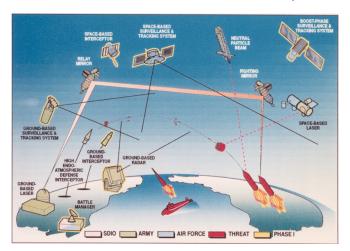
Competing explanations

- The first principle of wind walking.
- Not so easy.
- Switching costs and likelihood of accepting change.
- IR \rightarrow Predictable.

Example: Counter-terrorism

- Prevent radicalization by persuasion.
- Less effective requires change of belief.

Wing walking among Policymakers: Reagan SDI ('Star Wars')



How to test theories?

- Empirical assessment: case studies.
- Vietnam war (proxy wars, cold war, insurgency, etc.)
- Inductive method: generalize a single case.
- More cases (evidence) → more confidence in theory.

Challenges of case selection

- Arms race and wars: World war 1&2 as cases.
- Contradictory evidence.
- Selection bias:
 - Use only supportive evidence.
 - Ignore refuting data.
 - No variation in DV.

Recommended readings

More studies on theory construction:

- Kellstedt, P. M., and Whitten, G. D. (2018). The fundamentals of political science research. Cambridge University Press.
- Pollock, Philip H. (2016). The Essentials of Political Analysis (5th Edition). Washington DC: CQ Press.