17.445-17.446 Fall 2015 INTERNATIONAL RELATIONS in the CYBER AGE

The Course is in Three Parts

PART I

Structure & Process in International Relations

PART II

Theories of International Relations

Part III
Strategic Issues

Week 1 Introduction Some Basics

1. International relations

What is that?

Power & Politics

Actors & Activities

2. Cyberspace

Defined

Where is the politics?

Where is the International?

3. Changing Parameters

Legacies of 20th C.

Realities of 21st C.

4. Theory Matters & Matters of Theory

Levels of Analysis

Systems of Interaction

Basic Theories

Growth & Expansion

V.# ...7 ..

Week 1 Introduction Some Basics



1. International relations

What is that?

Power & Politics

Actors & Activities

2. Cyberspace

Defined

Where is the politics?

Where is the International?

3. Changing Parameters

Legacies of 20th C.

Realities of 21st C.

4. Theory Matters & Matters of Theory

Levels of Analysis

Systems of Interaction

Basic Theories

Growth & Expansion

N Choucri - 17.445/446 Fall 2015

17.445-17.446 Week 1

1. International Relations

Is about what?

Why?

How?

Key Concepts

Week 1 Introduction Some Basics

1. International relations

What is that?

Power & Politics

Actors & Activities



Defined

Where is the politics?

Where is the International?

3. Changing Parameters

Legacies of 20th C.

Realities of 21st C.

4. Theory Matters & Matters of Theory

Levels of Analysis

Systems of Interaction

Basic Theories

Growth & Expansion

V.# ...7 ..

2. Cyberspace

Global Domain of Human Interaction

- Created through the interconnection of millions of computers by a global network such as the Internet.
- Built as a layered construct, where physical elements enable a logical framework of interconnection
- Permits the processing, manipulation, exploitation, augmentation of information, and the interaction of people and information.
- Enabled by institutional intermediation and organization
- Characterized by decentralization and interplay among these actors, constituencies and interests.

Dilemmas for the State System

Table 1.1 Characteristics of Cyberspace

- Temporality—replaces conventional temporality with near instantaneity
- Physicality—transcends constraints of geography and physical location
- Permeation—penetrates boundaries and jurisdictions
- Fluidity—manifests sustained shifts and reconfigurations
- Participation—reduces barriers to activism and political expression
- Attribution—obscures identities of actors and links to action
- Accountability—bypasses mechanisms of accountability

Choucri, Nazli. "Table 1.1: Characteristics of Cyberspace." In *Cyberpolitics in International Relations*. MIT Press, 2012. ISBN: 9780262517690. Used with Permission.

Week 1 Introduction Some Basics

1. International relations

What is that?

Power & Politics

Actors & Activities

2. Cyberspace

Defined

Where is the politics?

Where is the International?

3. Changing Parameters

Legacies of 20th C.

Realities of 21st C.

4. Theory Matters & Matters of Theory

Levels of Analysis

Systems of Interaction

Basic Theories

Growth & Expansion

N Choucri - 17.445/446 Fall 2015





3. Changing Parameters Legacies of the 20th Century

- Large number of new sovereign states
- Growth in number & size of international institutions
- Growth in private sector size and influence
- Growth in non-state actors with new objectives
- Expansion of the international agenda

RESULT

- "Crowded" system & high density of decision-entities
- Increased uncertainties, collusion & collisions
 None of this is due to cyberspace



Realities of the 21st Century



- New vulnerabilities & challenges to security
- Changes in traditional power calculus
- Dominance of new private cyber actors
- Increased complexity of cyber management
- Contentions over US-created cyber institutions
- Growth of cyber-conflicts & need for cyber-cooperation

RESULT

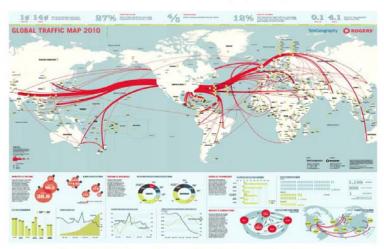
- Increased coupling of "real" and cyber domains
- Growth in "hybrid" policies & responses
 All of this is due to cyberspace

The familiar world map



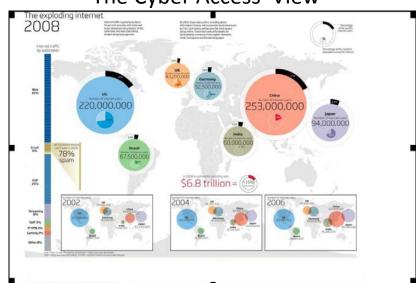
This image is in the public domain. Source: The CIA World Factbook.

Global Traffic Map (2010)



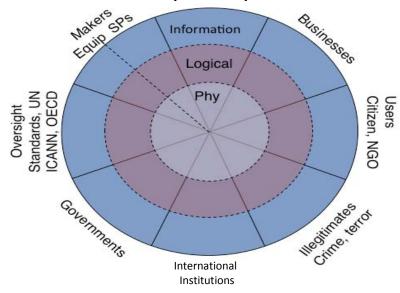
"Global Traffic Map 2010." © TeleGeography.com. All rights reserved. This content is excluded from our Creative Commons license. For more information, see http://ocw.mit.edu/help/faq-fair-use/.

The Cyber Access View



"Exploring the Exploding Internet." *New Scientist*, April 28, 2009. © Reed Business Information Ltd. All rights reserved. This content is excluded from our Creative Common license. For more information, see http://ocw.mit.edu/help/faq-fair-use/.

The Cyber Layer Model



Week 1 Introduction Some Basics

1. International relations

What is that?

Power & Politics

Actors & Activities

2. Cyberspace

Defined

Where is the politics?

Where is the International?

3. Changing Parameters

Legacies of 20th C.

Realities of 21st C.

4. Theory Matters & Matters of Theory

Levels of Analysis

Systems of Interaction

Basic Theories

Growth & Expansion

N Choucri - 17.445/446 Fall 2015

Levels of Analysis

Traditional Theory

Three Levels

Man - Individual

State – The Sovereign

International System

One Domain

The Human System

Levels of Analysis

New View

Four Levels

Individual & Aggregates

State & Non State Actors

International System

Global System

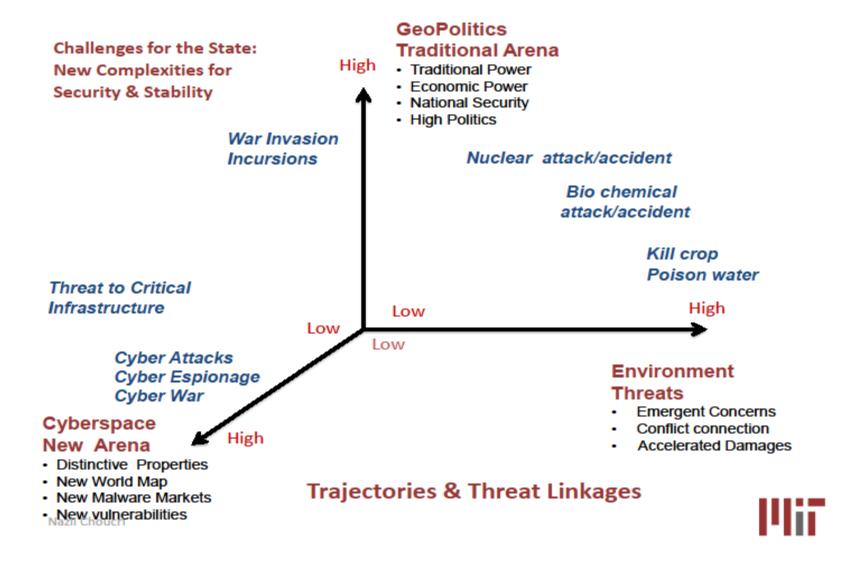
Three Domains

Human System

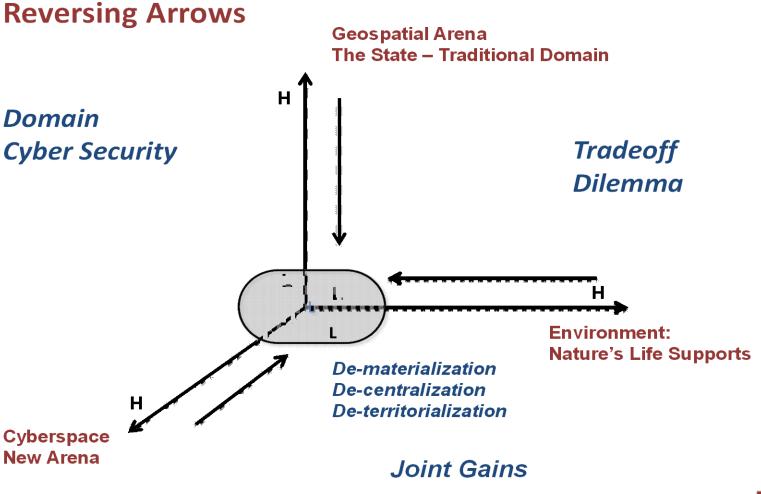
Natural System

Cyber System

Systems of Interaction



Systems of Interaction





Week 1 Introduction Some Basics

1. International relations

What is that?

Power & Politics

Actors & Activities

2. Cyberspace

Defined

Where is the politics?

Where is the International?

3. Changing Parameters

Legacies of 20th C.

Realities of 21st C.

4. Theory Matters & Matters of Theory

Levels of Analysis

Systems of Interaction

Basic Theories

Growth & Expansion

Traditional IR Theories

Realism

Institutionalism

Constructivism

To be continued

17.445-17.446 Week 2 Outline

- 1. Cyberspace Defined
- 2. IR Past & Present
- 3. Theories of International Relations
- 4. New Concepts & Theory
- 5. Assumptions for 21st century IR

Realism & Neo-Realism

- The role of the state The uses and limits of its instruments
 - For Power, Security
 - For Wealth
- How portable is the kinetic logic of power to the virtual realities of cyber venues
- Government is autonomous & centralized around security concerns
- How and where can influence or power be exerted in the ecosystem in the cyber domain
- The only relevant technological change relates to power and the military
- Other?

Liberalism & Neo-Liberalism

- Government as a processor of inputs and outputs
- Government policies are results of effective access of interest groups
 - Self-interest and division of labor
 - Realists also on self interest- but realists do not address explicitly the division of labor
- Politics is competition among organized interests
- Change perceived as gradual and adaptive
 - Sources of change is not addressed, as a central issue
- Logic of technological development is integrative not divisive in society
- The role of the hegemon is essential to maintain international order and stability (and open markets etc.)
- Other?

Institutionalism & Neo-Institutionalism

- "General pattern or categorization of activity or ... a particular human constructed arrangement, formally or informally organized."
 - Complex rules and norms; as well as practices
 - Specific institutions defined in terms of their specific rules
- Rules that generate repeated behaviors (D. North)
 - Frozen decisions or history encoded into ruless (March & Olson)
 - Rules are viewed as summaries of past decisions (Rawles)
- Institutions reflect the preferences and power of the units constituting them
 - Causal position of political institutions
 - Institutions themselves shape those preferences and that power (Keohane; Krasner)

Constructivism

- Causal position of ideas idea drive action & output
 - not power, security, institutions, or other
- Focus on cognition, preferences, interpretation of content,
- Agency function changing and making society
- "Changes in international politics occur when beliefs and identities of domestic actors are altered thereby also altering the rule and norms"... of their behaviors. (Koslowski & Kratochwill, Cited in Hall, 1999:293)
- Importance of inter-subjective meaning

17.445-17.446 Week 2 Outline

- 1. Cyberspace Defined
- 2. IR Past & Present
- 3. Theories of International Relations
- 4. New Concepts & Theory
- 5. Assumptions for 21st century IR

New Concepts & Theories

- Challenges to state power due to contemporary trends, e.g., globalization of economic processes, growth of cyberspace argue for non-traditional theories of international relations.
 - Less state centric
 - Accommodating international organizations, regimes and networks
 - Understanding new dimensions of power
- New Assumptions
- Different theories or frameworks for international relations focus on different potentials of cyberspace

Concepts Soft Power & Smart Power

- States, non-state actors and international organizations will seek to increase influence on the global stage by appealing to public opinion
 - Strategic communications that emphasize the actor's cultural, social or political values;
 - Non threatening/ attractive displays of military, economic or technological capabilities
- Cyberspace -- international networks -- are well suitable for such communication and displays
 - Relatively inexpensive
 - Global reach, yet capable of targeting specific groups
 - Communication does not depend on permission of targeted states
 - Dependence of users on proffered technologies
- States are also vulnerable to other actors' soft power
 - Response include filtering of incoming information
 - Radio jamming precedents
 - Efforts to establish borders in cyberspace
 - Contention over governance and protocols of international networks
 - Localization of control?
 - Hegemony or multiculturalism in protocols and other manifestations of the cyberspace technologies

Theory Lateral Pressure

- Extends traditional theory that sees states competing to increase their power, resources & influence to retain sovereignty
 - State action motivated by new needs & expectations create by growth in population and technical capabilities
 - New economic spheres can be an area for expansion if the activity can meet the population's needs and expectations
- Different assumptions from traditional theory
- Competition and conflict are not inevitable outcomes if other venues are pursued
- States are motivated by need to survive not necessarily to dominate
- Selective convergence with other theories .

MIT OpenCourseWare http://ocw.mit.edu

17.445 / 17.446 International Relations Theory in the Cyber Age Fall 2015

For information about citing these materials or our Terms of Use, visit: http://ocw.mit.edu/terms.