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臺大新百家學堂

# 氣候變遷與全球風險環境的型構

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地點：臺大博雅館 102 室

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[「姓名標示—非商業性—相同方式分享」臺灣 3.0](#)  
版授權釋出】



# 國家的角色？

# States?

2 South

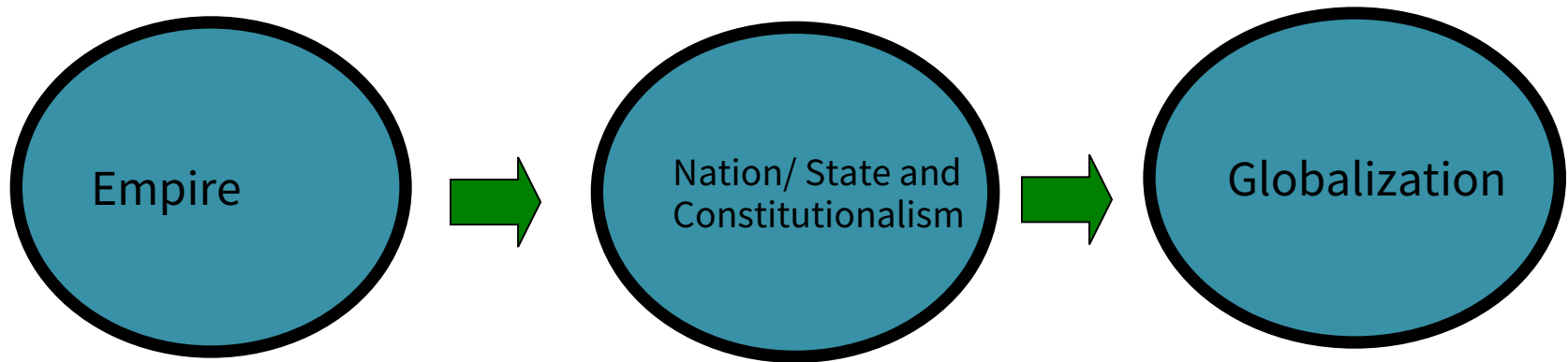


OUR  
COMMON  
FUTURE

Next  
Generation

# Background: From Empire to Globalization

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Climate Change



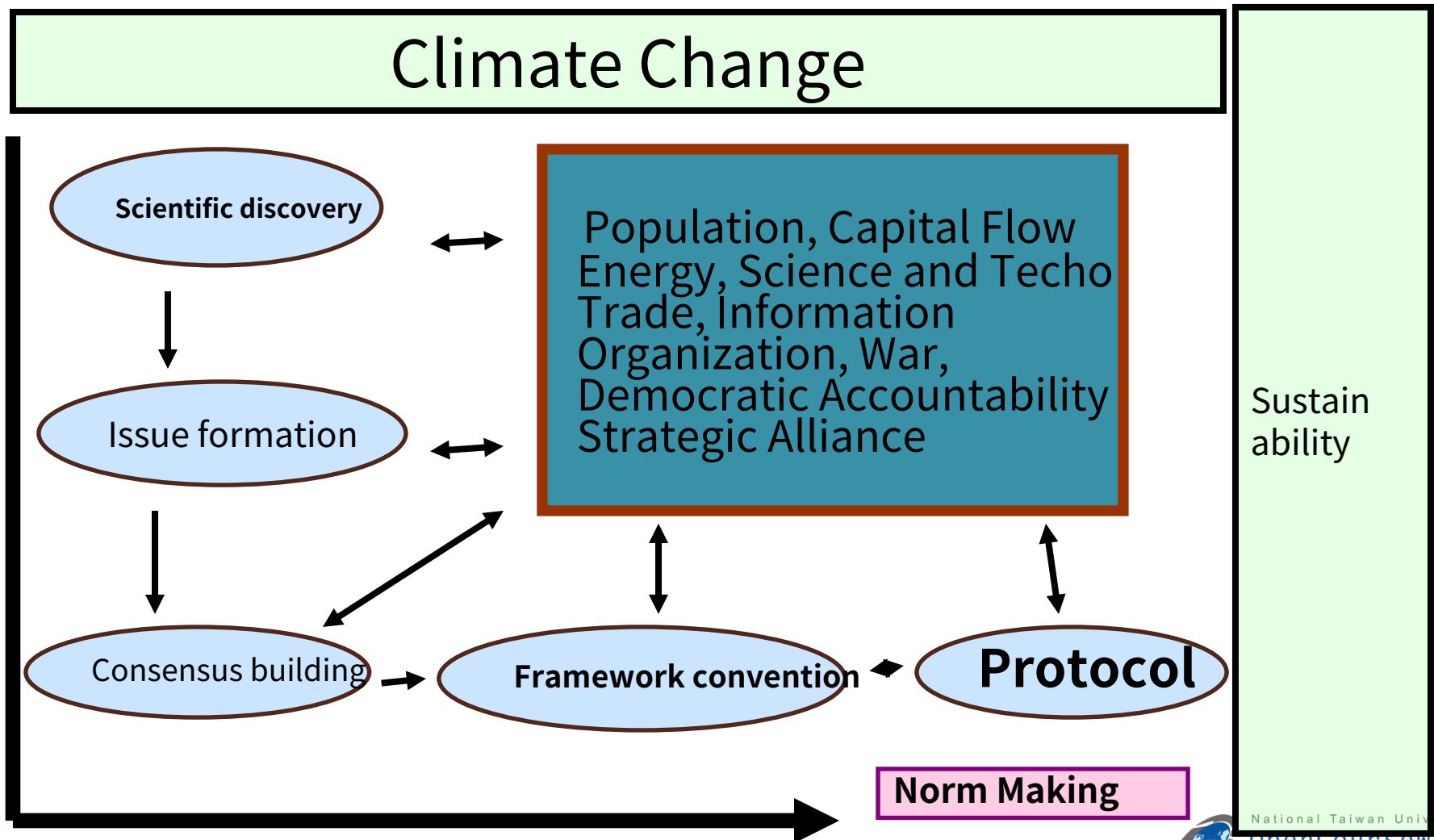
## Global Environmental Agenda



# From Scientific Findings to Normative Formation

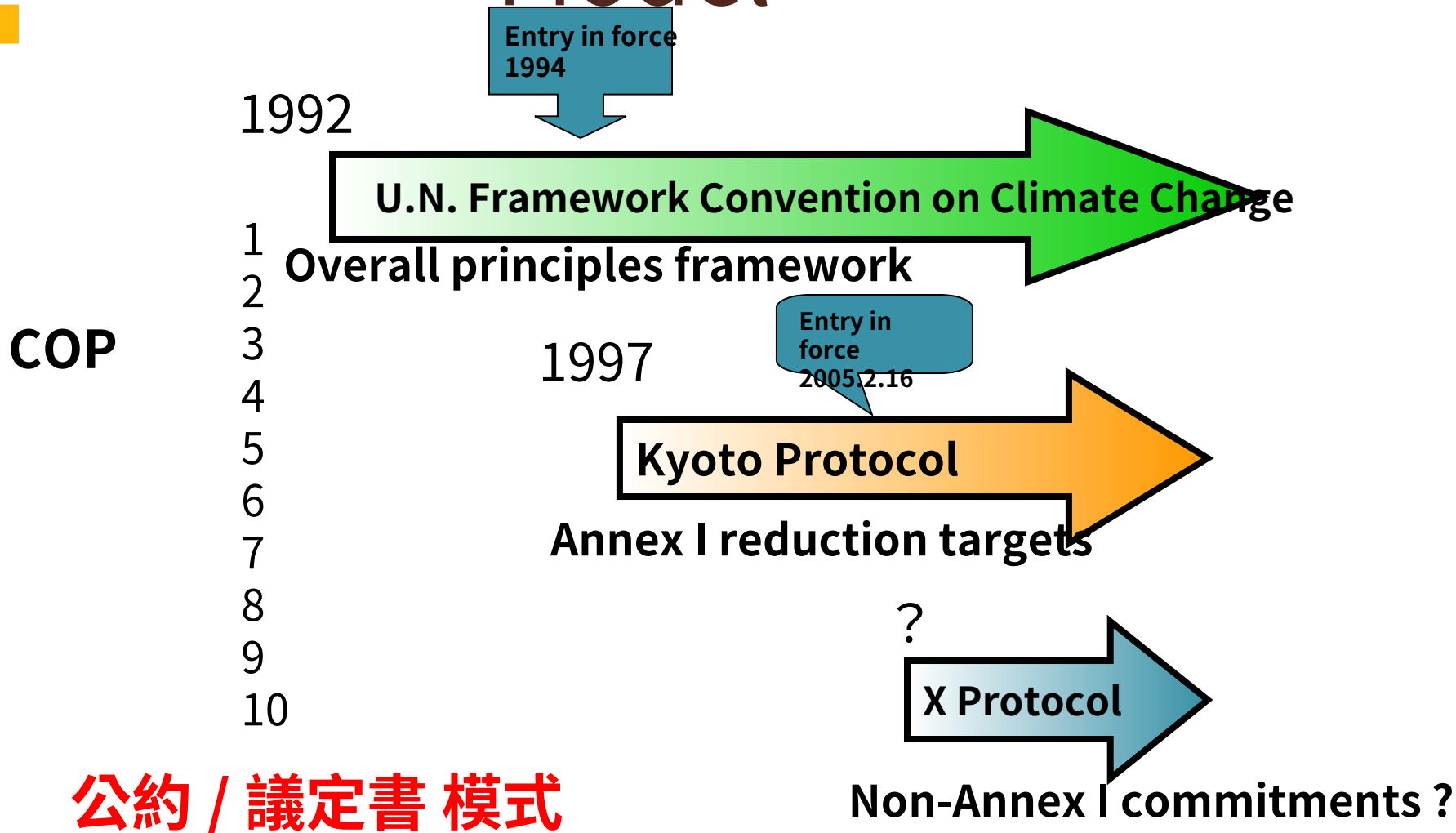
## 規範化

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# The Convention/Protocol Model

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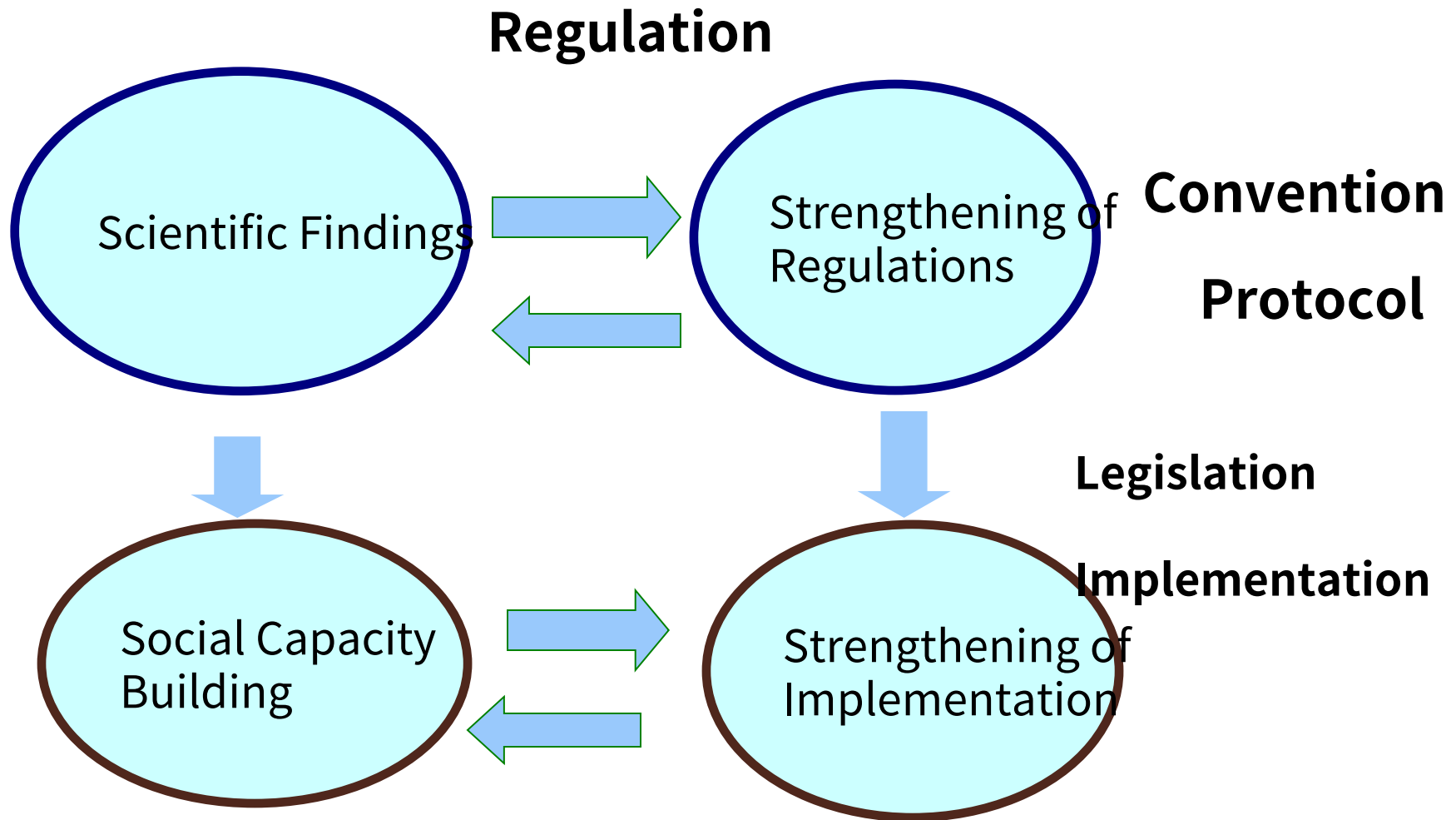


公約 / 議定書 模式



# Relationship Between Climate Change, Regulations and Technological Advancement

6



# Three Core Elements of Current Climate Change Governance

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- State Centric 國家中心
- Interest Based 利益本位
- Procedural Failure 程序失調

# States: Common But “Differentiated”

8

## Responsibilities

Reduction,  
Finance,  
Technology

Information

?

**Annex I:**

OECD countries,  
Central and Eastern  
European economies  
in transition

e.g. Japan

**Non-Annex I:**

Emerging economies  
and developing  
countries

e.g. Korea

**Non-Parties**

e.g. Taiwan

**Flexible  
mechanism**

**Flexible  
mechanism**

?



# Global Village v. Interest-based Approach

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Sprinz & Vaahtoranta, 1994, 2002

		Ecological Costs	
		Low	High
Abatement Costs	Low	(bystanders)	(pushers)
	High	(draggers)	(intermediate s)

Issues: Acid Rain, Ozone Depletion, Global warming.....



# Departure from the State-centric Deadlock

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## Downstream

- Sub-national roles
- Eg. California

## Global Judicial Network

## Upstream

- Super-national roles
- Eg. EU

## Actions from sub-national levels

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- **California pledged to return to 2000 levels by 2010, decline to 1990 levels by 2020, cut GHG emissions by 20% from 1990 level by 2050**
- **There has been Regional Greenhouse Gas Initiative in New England and Western Climate Initiative on the West coast, including three Canadian provinces**
- **Other sub-national initiatives: foreign investors in China**

# Rethinking Climate Change Governance: Role of sub-national Institutions

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- **California, Texas, Alberta, Ontario v. Spain, Netherlands, Sweden**
- **The disparity between national and sub-national actors in current climate change regime**

# Further Reflection

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- **EU and US**
- **Germany and California**
- **Shanghai, Singapore,  
Taiwan, and .....**

# Climate Change presents a unique Challenge for economics

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- **“it is the greatest and widest-ranging market failure ever seen” (Stern Review)**
- **Market failure or government failure?**
- **Compare Climate Change with current financial crisis in terms of government actions**

# The economics of Early Action: A very simple exercise of cost-benefit analysis

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- **“The benefit of strong, early action on climate change outweigh the costs”**
- **“Mitigation... must be viewed as an investment, a cost incurred now and in the coming few decades to avoid the risks of very severe consequences in the future”**

# Why Developing Countries? Why the Poor?

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- Extreme weather: floods, droughts, storms.....
- Drinking water, Food security, Health, Forced migration for environmental reasons, Further environmental impacts
- Climate sensitive sectors: agriculture and fisheries
- Limited institutional and financial capability
- Higher vulnerability



# Money Matters: Financial Basis of Climate Change

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- **Budget, Fund, Subsidies, Tax, Abatement Costs, Damages, and Liability**
- **Market v. State**
- **Financial Inputs v. Regulatory Tools**
- **National v. Transnational Solutions**

# Global Climate Change, Taiwan's Stake



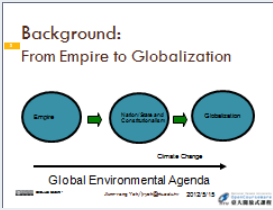

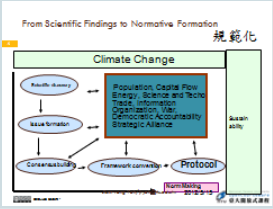

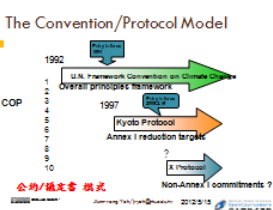

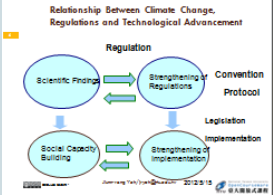

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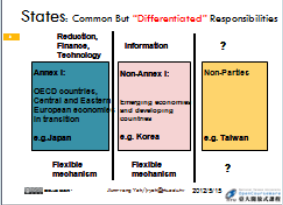

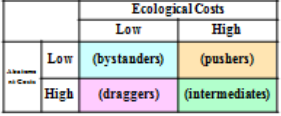




- **Is it All about Sanction?**
- **China Umbrella: to be or not to be?**
- **Whose Cost and Whose Benefit?**
- **A Matter of National Security?**
- **What is Real and See Who is Talking?**

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14	it is the greatest and widest-ranging market failure ever seen.		STERN REVIEW: The Economics of Climate Change ( <a href="http://siteresources.worldbank.org/INTINDONESIA/Resources/226271-1170911056314/3428109-1174614780539/SternReviewEng.pdf">http://siteresources.worldbank.org/INTINDONESIA/Resources/226271-1170911056314/3428109-1174614780539/SternReviewEng.pdf</a> )，頁 1， 瀏覽日期 2012/05/16。依據著作權法第 46、52、65 條合理使用。