Institutional Capacity for Climate Change Responses: An examination of construction and pathways in Mexico City and Santiago Chile

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Is response capacity different for Mexico City (frontrunner) and Santiago (laggard)?



Mexico City

-National and City Laws of Climate Change

-Strategy and Action Plan



Santiago

-Climate Action Plan to be launched in 2012



Methods: Qualitative analysis

- Interviews with Government (City, State, National), Academics, and NGOs/Community organizers
 - a) 18 in Mexico City
 - b) 22 in Santiago



- 2. Common coding scheme in Nvivo, network analysis software (UCINet).
- 3. Supplemented with government reports and academic studies

Urban vulnerability and Risk



Unpacking institutional response capacity



The context



Magana. 2011

The context

Transition to region-base urbanization

Urbanization and Socioeconomic Development



Water scarcity





Graizbord 2011

Due to population growth alone

Mexico City: 2007 - 2030 available water per capita will diminish by 11.2%

Santiago: 2005 - 2025 available water will diminish by 20.3 per cent per capita between



Unpacking institutional response capacity.



Climate-relevant planning actions

Mexico City					
National System of Civil Protection (1982)	National Disaster Fund (1996):	City Climate Strategy (2000)	City Climate Action Pla (2008)	an City Climate Law (2010)	National Climate Law (2012)
prevent and reduce	Ministry of Finance		- 26 mitigation action		- Reduce GHG emissions
.ife loses	administers resources local	inventory	energy, transport and waste (94.3% of budg		by 30% in 2020 and by 50% in 2050
	authorities receive	- Emissions	Maste (5 115/0 01 5 4 4 5	- Climate change fun	
Property damage	for disaster	scenarios	- 8 adaptation action:	5	- Define climaterole of
Other impacts	reconstruction	- Synergies	(5.1% of budget)	- Regulation of GHG emissions	tiers of government (e.g., D.F.)
		betweenair		emissions	(e.g., D.r.)
		pollution and		- Taxes and financial	- Acknowledge cities'
		climate change		incentives	climate role
				- Domestic carbon	
				market	
			Santiago		
			National Climate Plan (2008)	Climate Adaptation Santiago (2009-2012)	Regional Adaptation Plan for the Metropolitan Region of Santiago
			Adapt (health, water, 1		
		f	ood, infrastructure)	Exported elimatic	(to be launched)
				- Expected climatic hanges	
				Impacts on energy,	
		-	Foster capacities L	UC, water, social	
			V	rulnerability	

Unpacking institutional response capacity.



Administrative Structures and Networks

Mexico City

Santiago

- 55 Local (16 delegations and 35 municipalities or wards), 2 governors and several national ministries
- City leadership plus International NGOs and networks
- Term limits and political tension

- 52 communes, a governor, 6 lieutenant-governors and national ministries
- International NGOs and networks
- Term limits and single-party rule



Use of Information

Mexico City

Santiago

- •Virtual Climate Change Center
- •Top-down due to perceived lack of capacity
- •Want information on climate scenarios

Early stages of generation

•Top-down due to perceived lack of capacity

•Want information on local impacts and adaptation responses

Legal framework

Mexico City

- Santiago
- Tension between urban growth and conservation
- Relatively more open promotion of urban growth

- Urban authorities:
 - diverse climate-relevant non-regulatory services such as water and sanitation
 - land use and zoning
- Flexibility a challenge, even during disasters
- Longer-term (reactive) tradition of disaster management

Participation

Mexico City

Santiago

- Authoritarian political culture (70 years PRI gov.)
- Authoritarian political culture (Pinochet dictatorship, techno neoliberalism)
- Mechanisms in place tend to be technocratic and paternalistic
- Consultations, pamphlets and guidelines
- Perceptions on this are mixed
- Participation in civil protection and disaster management is more common

Opportunities

- Leadership (and political ambition)
- Presence of
 - Influential scientific groups
 - Non-governmental and international organizations
 - Participation of local authorities in transnational networks
- Longer-term tradition of disaster management (although reactive)

Constraints

- Centralized yet fragmented governance inhibits effective coordination
- Technocratic and top-down approach to information sharing inhibits learning and informed policy making at the city level
- Limited existing mechanisms for participation in decision making transfer to climate change planning
- Economic policies and efficiency dominate

Next steps

 Include other cities and contexts (Buenos Aires, Bogota, ...)

Further explore

- Dynamic interaction of climate change planning with other institutions (architecture and path dependency)
- Attributes and dynamics of responses (adaptiveness)

Thanks!

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Resilient and Sustainable Cities