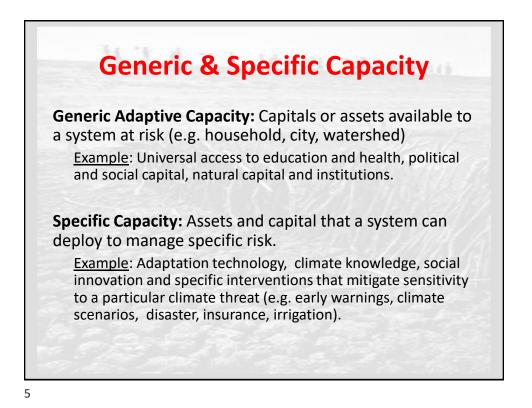
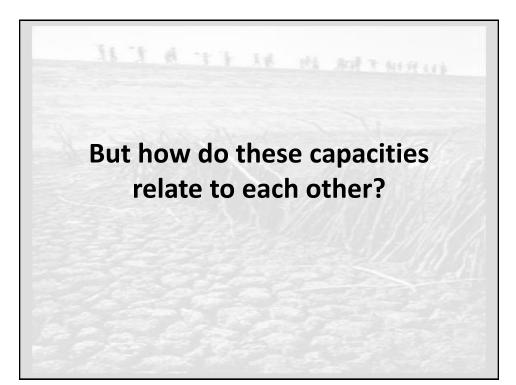
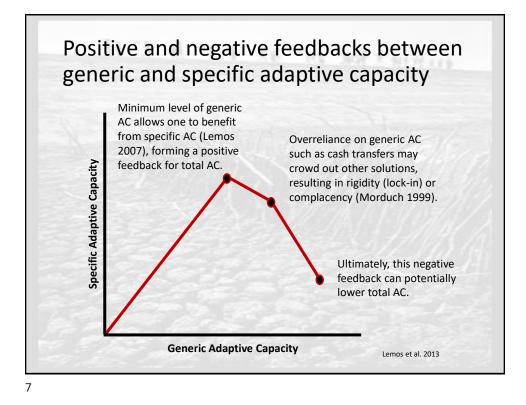
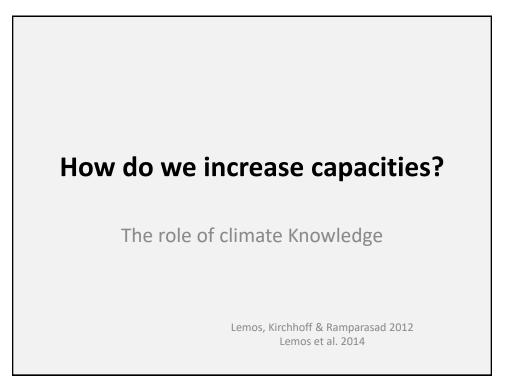


Definitions (IPCC-AR5)
Exposure: The presence of people, livelihoods, species or ecosystems, environmental services and resources, infrastructure, or economic, social, or cultural assets in places that could be adversely affected (e.g., climate variability and change).
Sensitivity: the degree to which a system is affected, either adversely or beneficially.
Adaptive Capacity: The ability of systems, institutions, humans, and other organisms to adjust to potential damage, to take advantage of opportunities, or to respond.



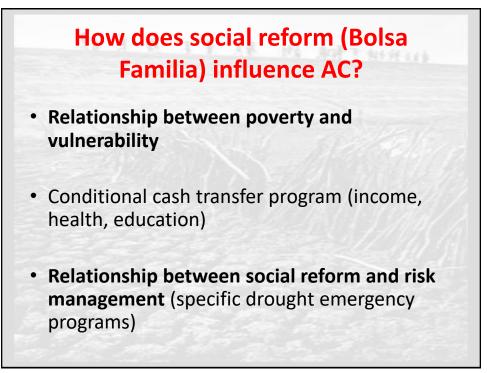




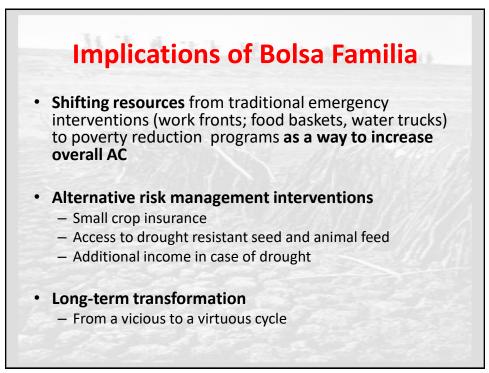


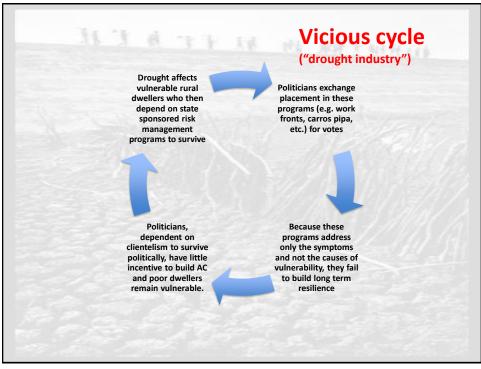


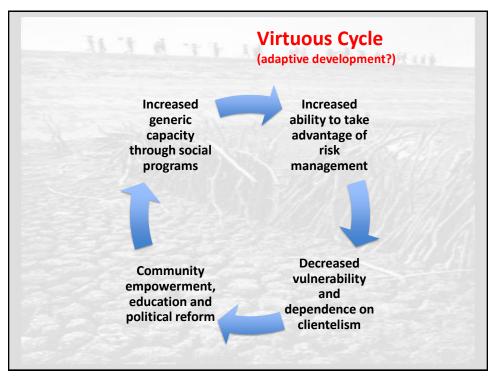


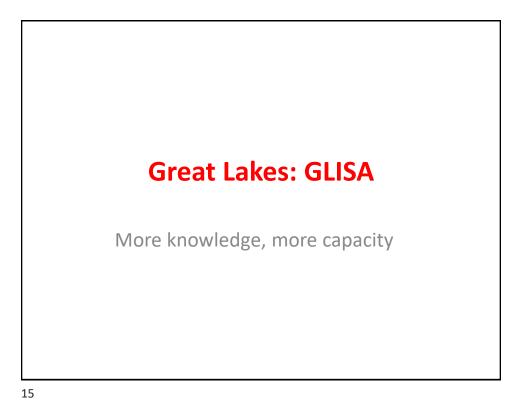


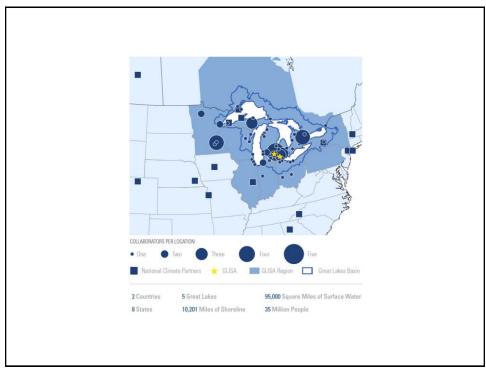


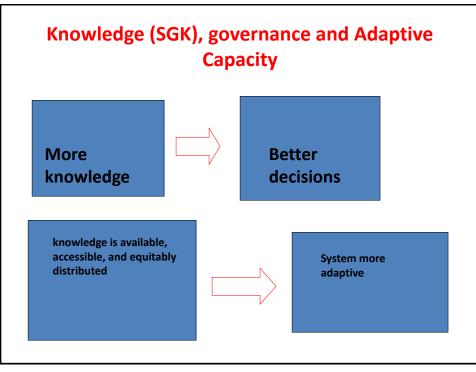


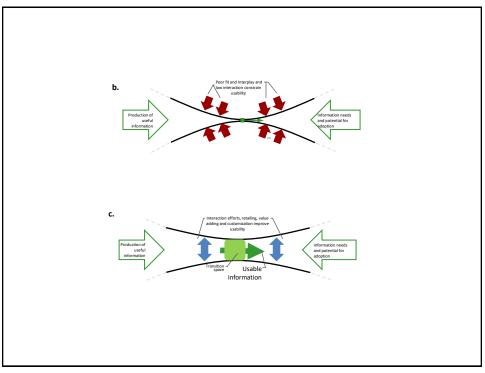


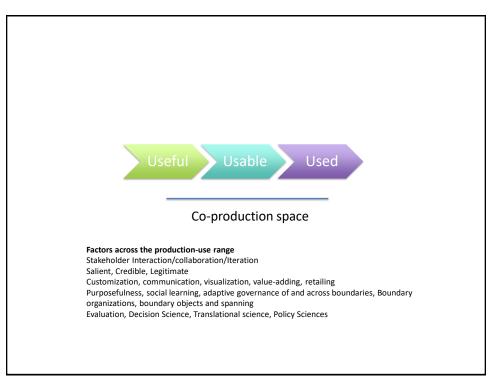




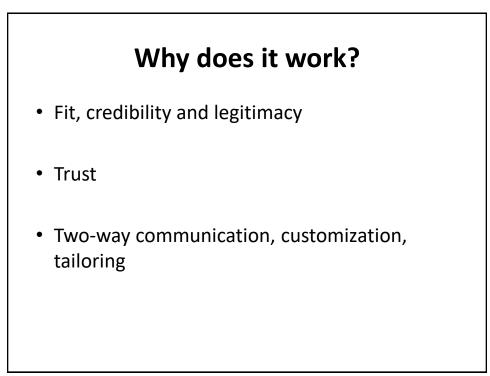


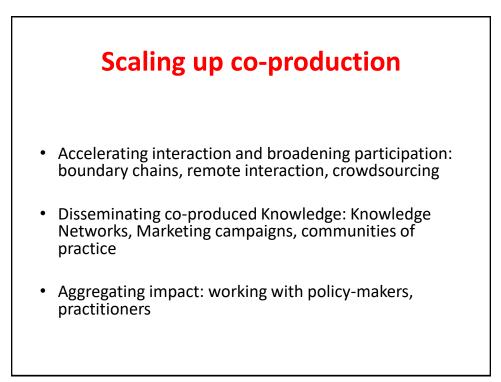


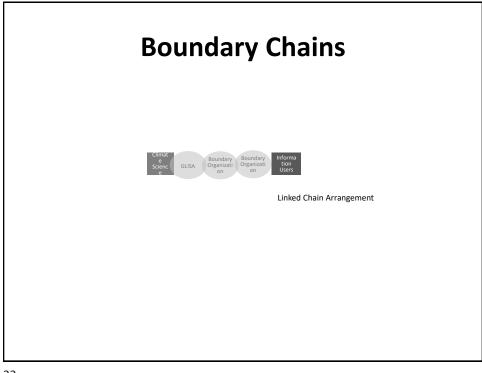


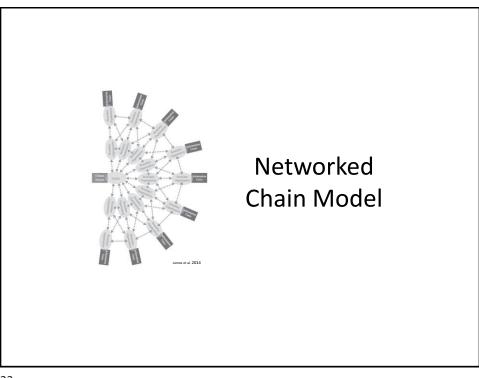




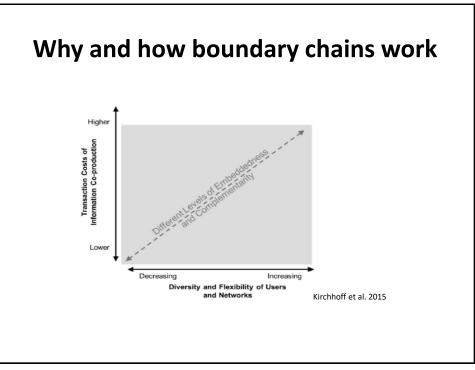




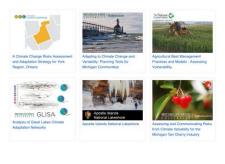








The GLISA Small Grants Program: the limits of supply-driven demand

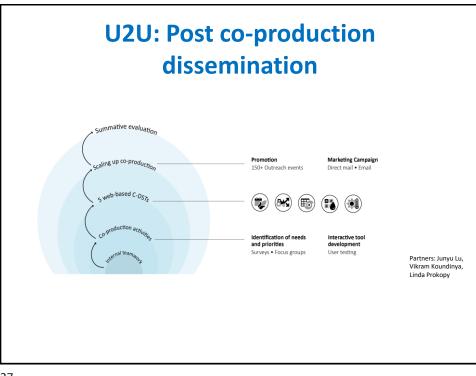


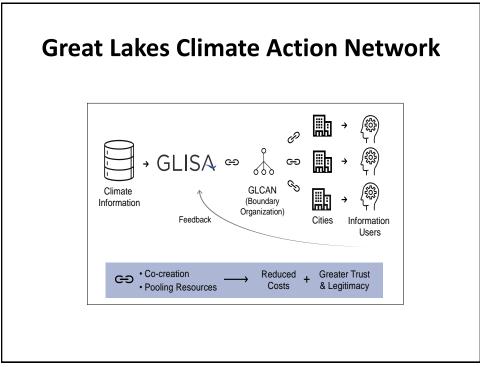
25

Scaling up and broadening participation: The closer, the better?

- Experiments with three treatments: face to face, webinar, and self-instructed
- Measured credibility, access and understanding.
- Not a significant difference between webinar and face to face
- A means of scaling up? Decreasing costs?

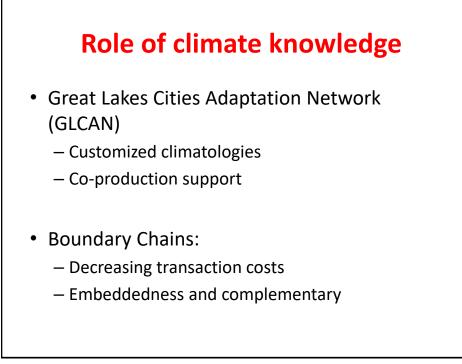




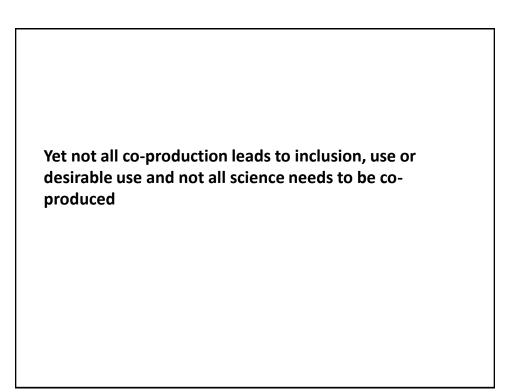






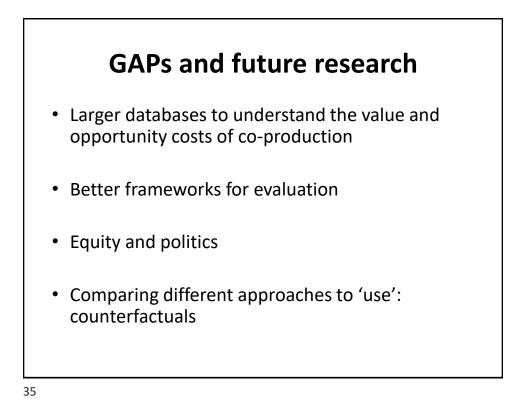


AGGREGATING OUTCOMES

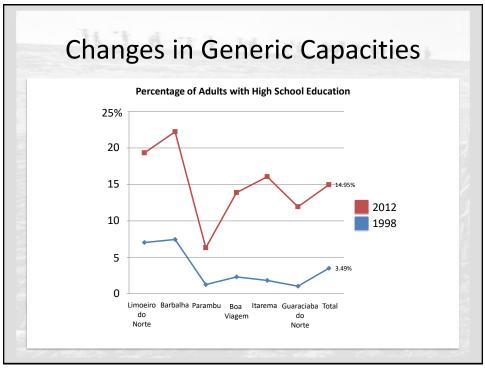


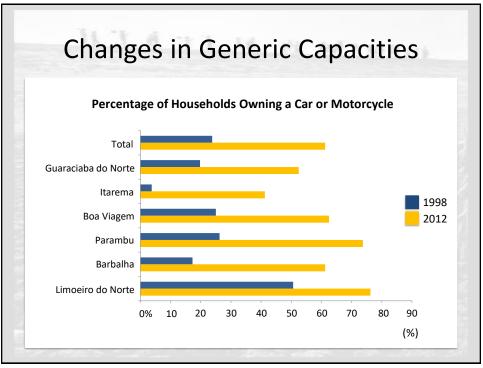
Does co-production need tough love? Potential Pitfalls

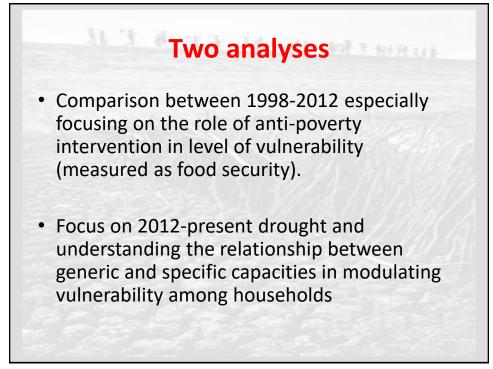
- High costs: time, money, commitment, pressure
- Potential for not meeting goals or even have undesirable outcomes
- Lack of intentional care for issues of justice, equity, inclusion and diversity
- Pressure on scientists and practitioners
 - "stakeholder fatigue"
 - 'gold standard'
 - performance evaluation
 - devaluation of basic science

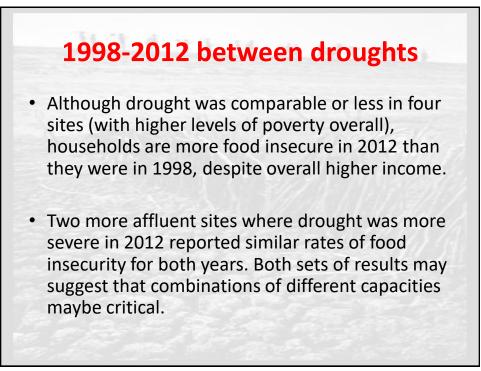


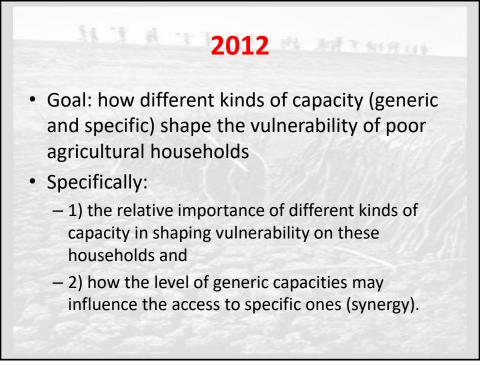


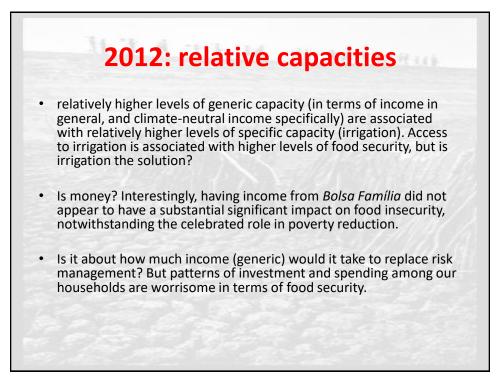


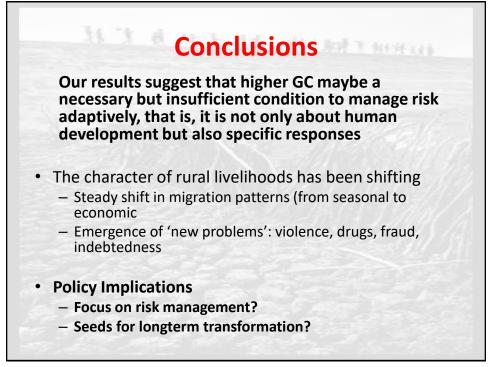




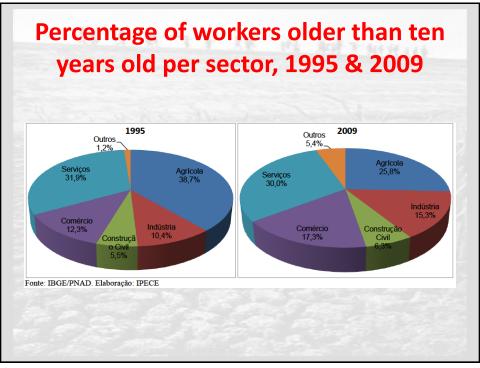


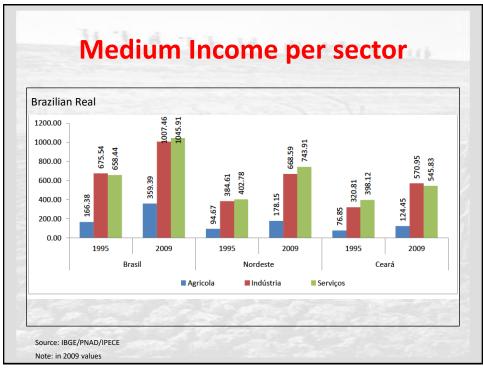


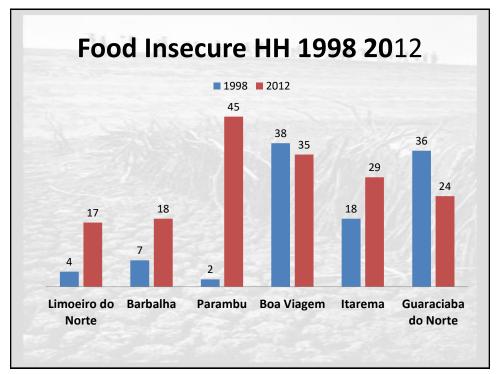












Test Results	
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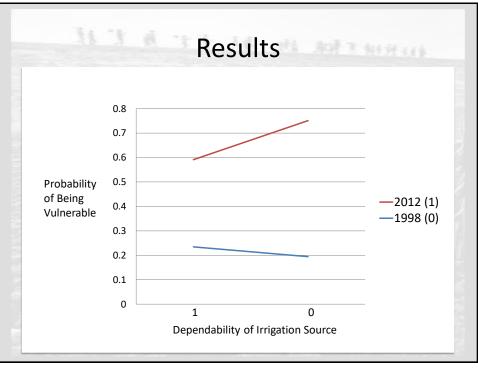
ANOVA for Generic Adaptive Capacity by 1998 and 2012*

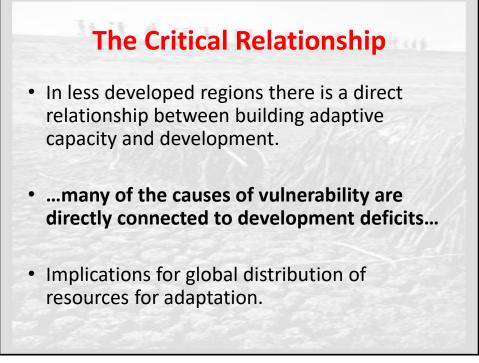
	1998		2012			
	Mean	SD	Mean	SD	F-test	P-value
Generic Adaptive Capacity						
Per Capita Annual Income	5.89	1.04	6.66	1.06	120.77	0.00
Vulnerable	5.46	1.07	6.25	1.01		
Not Vulnerable	6.01	1.00	6.89	1.01		
Per Capita Livestock Assets	0.80	1.04	0.66	1.05	4.43	0.04
% Income from Social Security	0.29	0.41	0.36	0.43	6.83	0.01
Consumer goods index	0.13	0.12	0.27	0.12	354.84	0.00

* To achieve the normality assumption, the log transformation is applied to the variables of Per Capita Annual Income and Per Capita Livestock Assets

Model Results					
Logistic Conoralized		Variable:	ariable:		
Logistic Generalized	Variable	/ulnerabili Coeff.	ty SE	P-Value	
Linear Model	Panel of Year				
	1998	-1.65	0.63	0.00	
	2012				
	Municipio				
	Limoeiro do Norte	-1.02	0.34	0.00	
	Barbalha	-1.13	0.30	0.00	
	Parambu	-0.58	0.28	0.04	
	Boa Viagem	0.43	0.28	0.12	
	Itarema	-0.60	0.28	0.03	
	Guaraciaba do Norte				
	Generic & Specific Adaptive Capacity				
	Per Capita Annual Income	-0.39	0.10	0.00	
	Per Capita Livestock Assets	-0.31	0.10	0.00	
	Dependability of irrigation	-0.81	0.34	0.02	
	% Income from Social Security	-0.45	0.24	0.06	
	Consumer goods index	-2.09	0.95	0.03	
	Interaction				
	Panel dependability of irrigation	1.05	0.51	0.04	

Household-level Indicators	1998 (n=105)	2012 (n=168)	T-test/χ2-test* (p-value)	
Generic Capacities	2/20	280	WEN'S	
% of Owned a car of motorcycle	12.5	53.0	44.902* (p<0.001)	
Mean of Dependency ratio	0.339	0.478	4.618 (p<0.001)	
Mean % of adults with high school degree	0.012	0.114	5.635 (p<0.001)	
Specific Capacities	11/2	a. 1. 1.		
% of Had irrigation	11.7	11.0	0.029* (p=.865)	
% of Use Agricultural Technology	17.1	25.6	2.660* (p=.104)	
Mean of income sources per capital	0.371	0.592	5.466 (p<.001)	





Ceará: Social Indicators Indicators 1987 1997 2005 2010 137.0 (1) 40.0 33.2(4) 26.6 Infant Mortality 31.7 26.5⁽⁵⁾ 18.8(6) Illiteracy (% of the population over 7 years-old) 43.3 Households with piped water (%) 31.5 53.3 74.0 77.2 95.6 53.1 (3) 75.6 98.9 Houses with electricity (%)

28.0

49.0

72.2

75.3

Source: IBGE/PNAD, SEDUC, SESA, Government of the State of Ceará, 2000, 2010

Notes: (1) 1986

(1) 1986 (2) the rate for 1997 is 42/1,000

(3) (Folke and T. Hahn) 1985

- (4) (Folke and T. Hahn) 2004
- (5) % of the population over 15 years old

Households with garbage collection (%)



