Climate change and poverty report

Coordinated by
Office of the Chief Economist
Climate Change VP

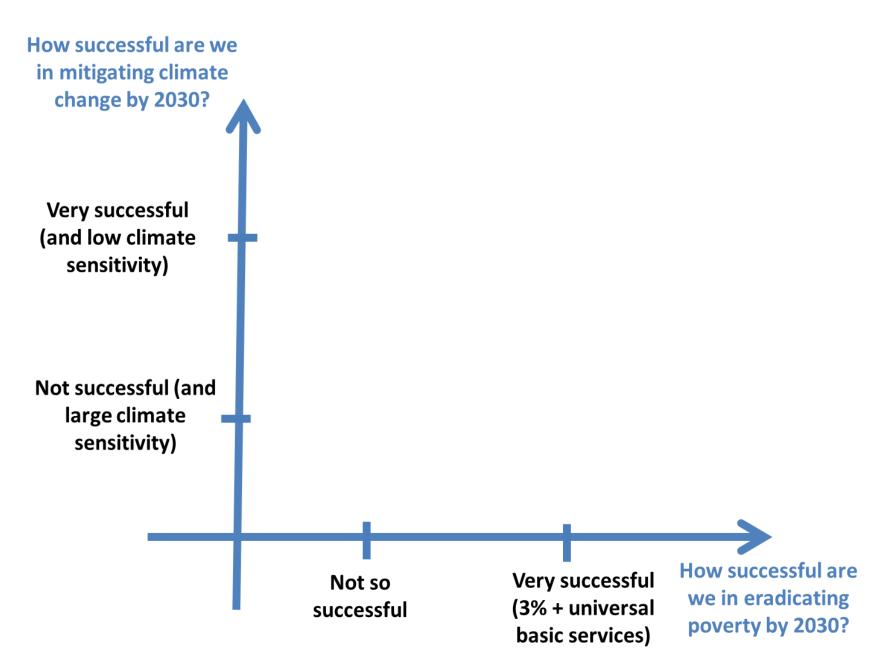
LAC Workshop, September 4th

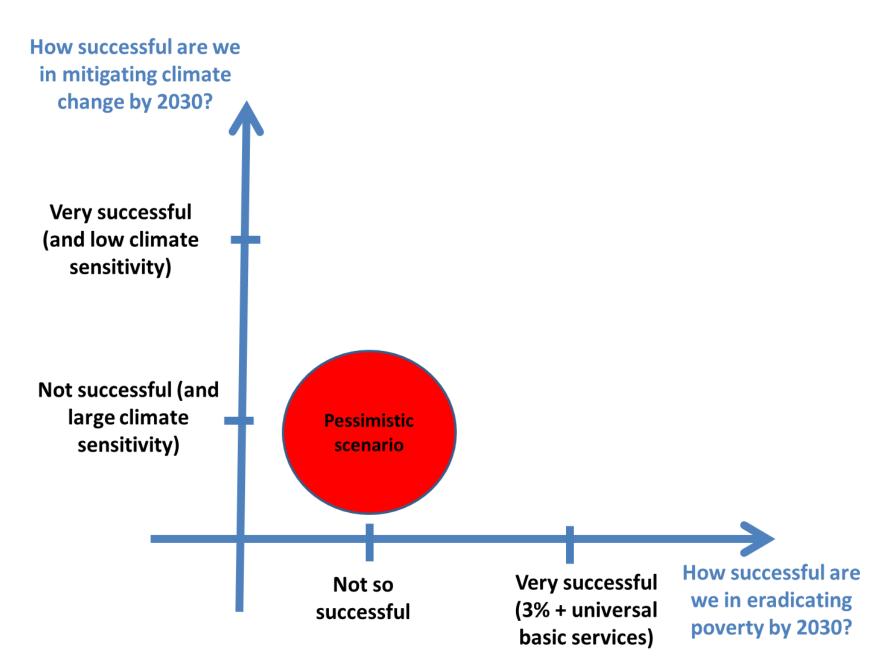
The poor are more vulnerable to climate change?

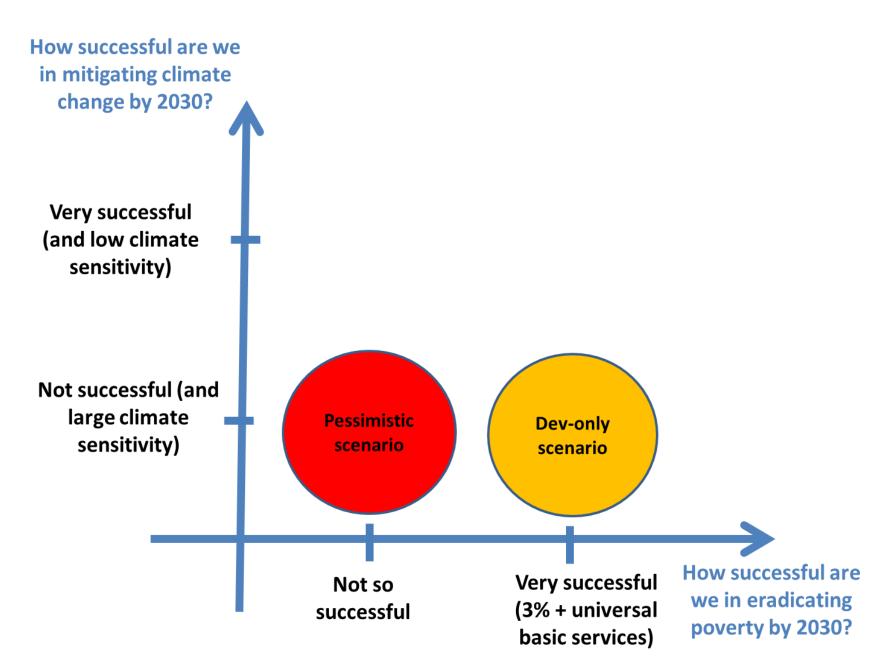
- The poor are more exposed?
- The poor have a higher direct vulnerability?
- The poor have lower ability to recover when affected?
- The poor have lower ability to adapt to changes?
- Now? And in the future?

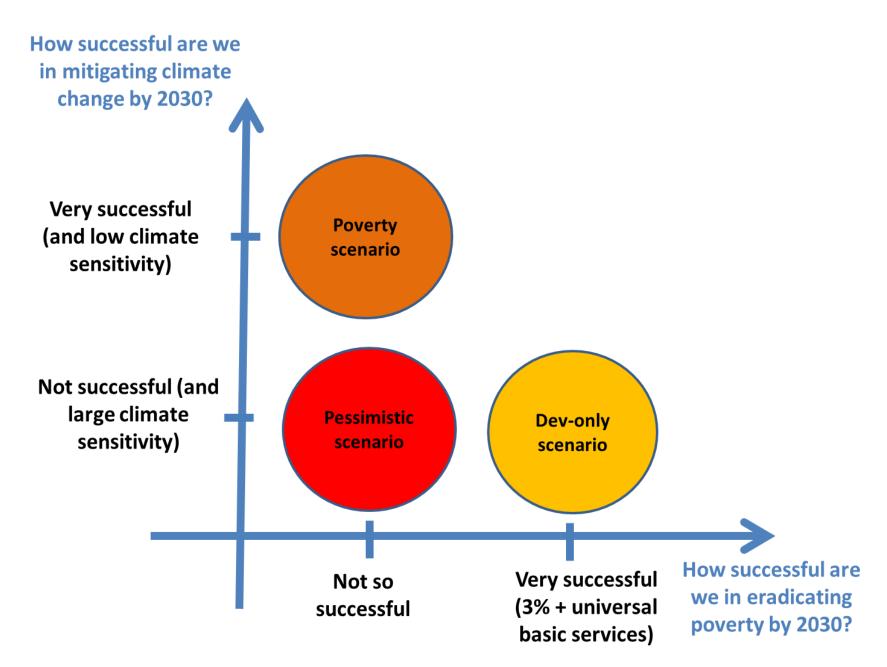
4 Questions to Answer...

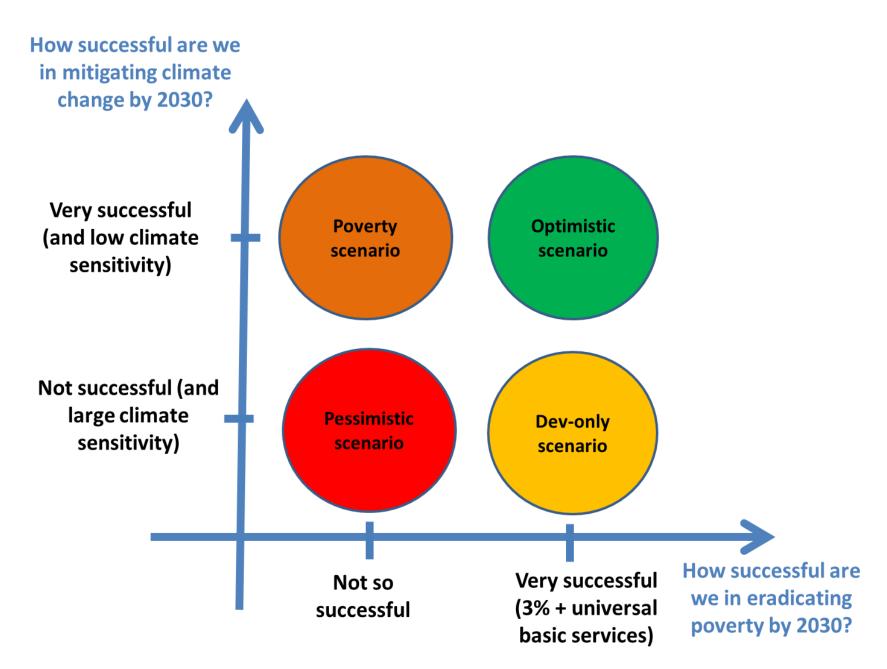
- Can climate change impacts threaten poverty eradication?
- Can poverty eradication reduce climate change impacts?
- Should we design poverty reduction differently to account for climate change?
- Should we design adaptation and mitigation policies differently because we care about poverty?







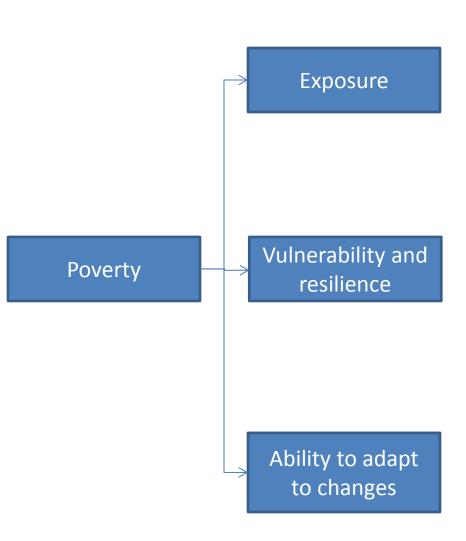


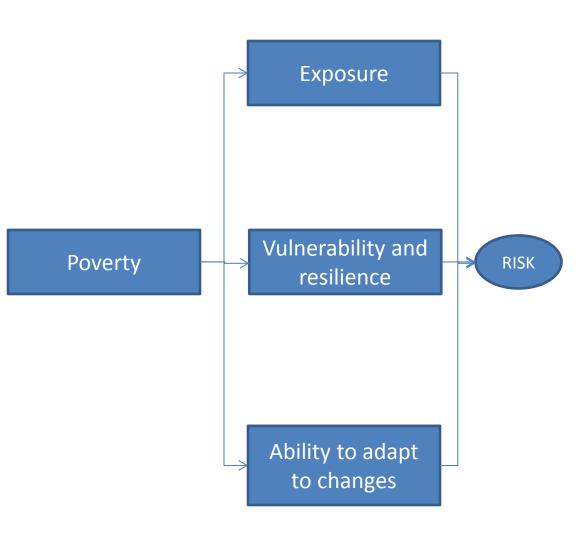


Channels

- Agriculture
 - Food prices
 - Productivity and income
- Ecosystem Services
- Health
- Natural disasters...

Poverty

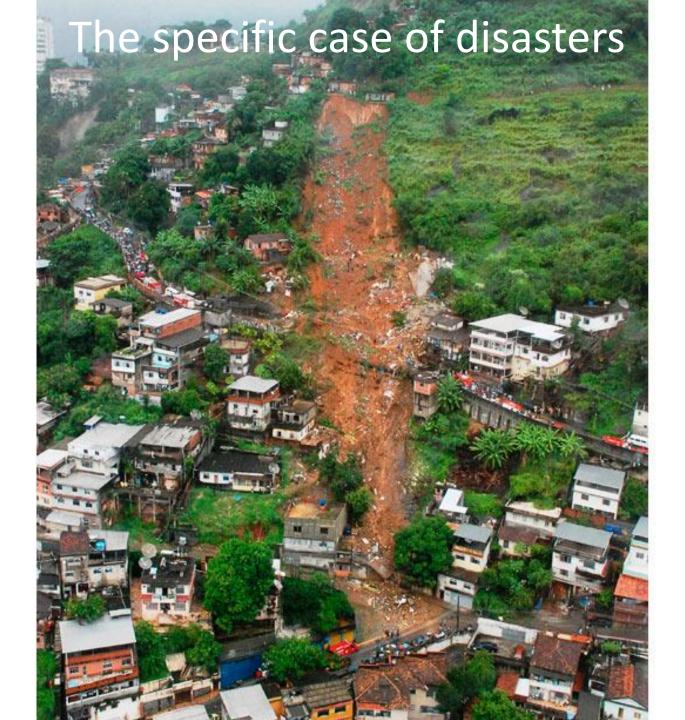


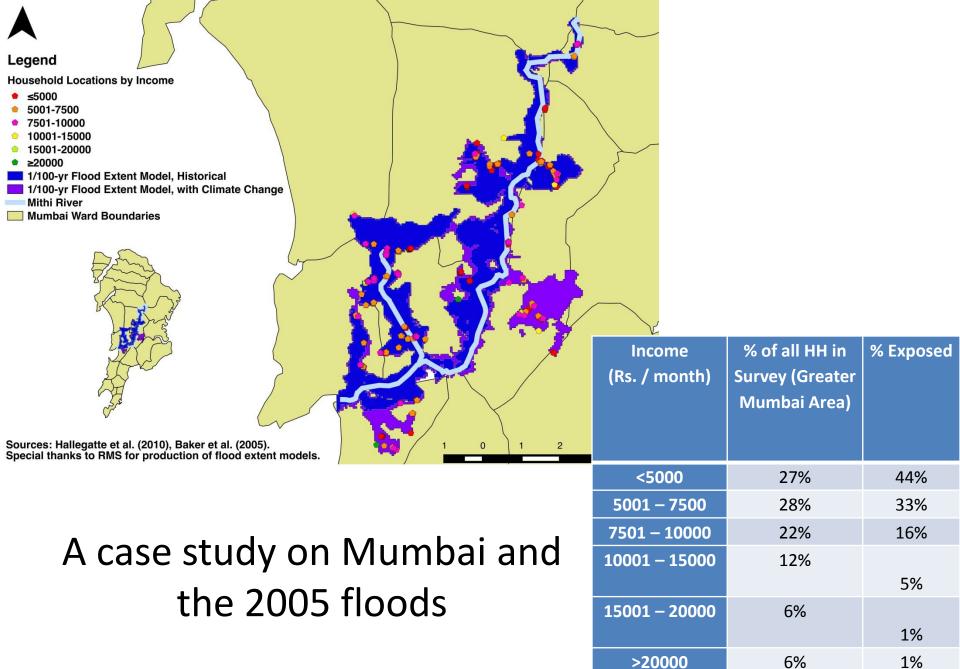


Feedback on poverty Exposure Impacts on assets and capital accumulation Impact on Vulnerability and income and Poverty RISK resilience productivity Impact on ability to change livelihood and Ability to adapt benefit from

growth

to changes





All

100%

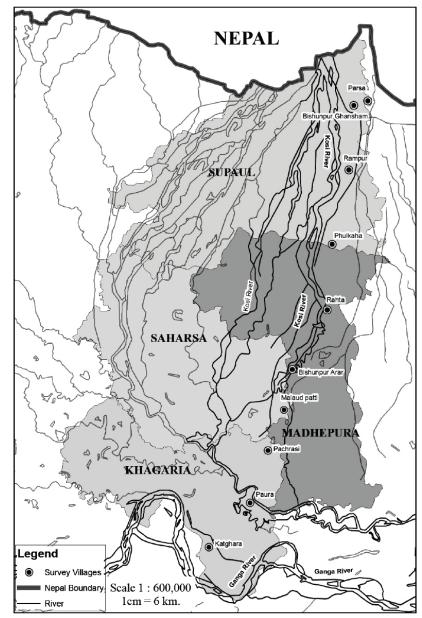
n=4972

100%

n = 210

And in India (Kosi flood in Bihar in 2008)

Figure 1: The Flooded Areas and Surveyed Villages



Impact on
assets and
income

Table 5. Average estimates of losses among the surveyed households (in livk)						
	K East	H East	F North	F South	L Ward	

-	(Figures in b	racket as % o	f average hou	sehold mont	hly income)
10474	8543	5164	8323	22578	14894
(69.8)	(57.0)	(25.8)	(41.6)	(112.9)	(74.5)
22270	26191	34335	42967	22457	27118
(148.5)	(174.6)	(171.7)	(214.8)	(112.3)	(135.6)
13190	15469	13442	10081	11325	23923
(87.9)	(103.1)	(67.2)	(50.4)	(56.6)	(119.6)
9735	11061	11756	6602	7121	10417
(64.9)	(73.7)	(58.8)	(33.0)	(35.6)	(52.1)
12974	9153	11833	1250	5478	7232
(86.5)	(61.0)	(59.2)	(6.3)	(27.4)	(36.2)
	(69.8) 22270 (148.5) 13190 (87.9) 9735 (64.9) 12974	10474 8543 (69.8) (57.0) 22270 26191 (148.5) (174.6) 13190 15469 (87.9) (103.1) 9735 11061 (64.9) (73.7) 12974 9153	10474 8543 5164 (69.8) (57.0) (25.8) 22270 26191 34335 (148.5) (174.6) (171.7) 13190 15469 (87.9) (103.1) (67.2) 9735 11061 11756 (64.9) (73.7) (58.8) 12974 9153 11833	10474 8543 5164 8323 (69.8) (57.0) (25.8) (41.6) 22270 26191 34335 42967 (148.5) (174.6) (171.7) (214.8) 13190 (87.9) (103.1) (67.2) (50.4) (50.4) 9735 11061 11756 6602 (64.9) (73.7) (58.8) (33.0) 12974 9153 11833 1250	(69.8) (57.0) (25.8) (41.6) (112.9) 22270 26191 34335 42967 22457 (148.5) (174.6) (171.7) (214.8) (112.3) 13190 15469 13442 10081 11325 (87.9) (103.1) (67.2) (50.4) (56.6) 9735 11061 11756 6602 7121 (64.9) (73.7) (58.8) (33.0) (35.6) 12974 9153 11833 1250 5478

Patankar and Patwardhan (2014)

	Village Number			
	1-4	4-8	9-10	
Bank savings				
Households with savings on 1 August 2008 (%)	10	14	11	
Median savings on 1 August 2008 (Rs if >0)	1,600	6,500	5,500	
Households with savings on the date of survey	9	9	13	
Median savings on the date of survey (Rs if >0)	650	2,500	1,000	
Cash savings at home Households with savings on 1 August 2008 (%)	54	53	41	
Median savings on 1 August 2008 (Rs if >0)	1,100	2,000	1,000	
Households with savings on the date of survey (%)	8	13	29	
Median savings on the date of survey (Rs if >0)	250	500	350	

P North

Resilience and social protection

Table 6: Government Transfers and Stabilisation Programmes

		Village Nur	nber
	1-4	4-8	9-10
NREGS			
Households who knew about NREGS (%)	83	71	80
Households receiving benefits before August 2008 (%)	8	4	14
Households receiving benefits since August 2008 (%)	2	0	0
Public distribution system (PDS)			
Households using PDS in the week before the survey (%)	10	18	29
Rice purchased by PDS households (kg/week)	10	11	11
Average payments for PDS rice (Rs/kg)	6.7	6.2	6.9
Average payments for open market rice (Rs/kg)	14	14	13
Value of cash and in-kind transfers from the government July	[,] 2007-Ju	ıne 2008	3
Households receiving government transfers (%)	2	18	45
Mean value of government transfers (over all households)	177	771	1,307
Modal transfer (Rs)		1,200	1,200
Households receiving modal transfer (% total households)	23	21
After July 2008			
Households receiving government transfers (%)	99	95	2
Mean value of government transfers (if transfers>0)	7,782	5,632	79
Modal transfer (Rs)	5,840	5,840	
Households receiving modal transfer (% total households) 22	36	

Thank you

We look forward to discussing further!