The Economics of Adaptation

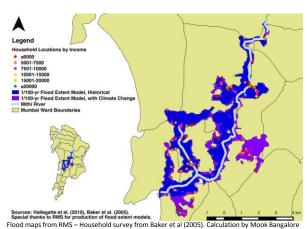








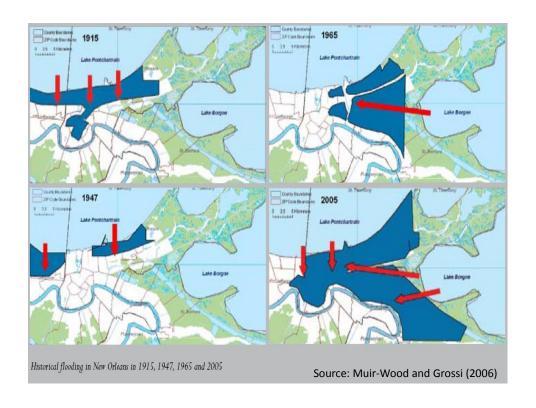
Aggregate losses and the poorest...



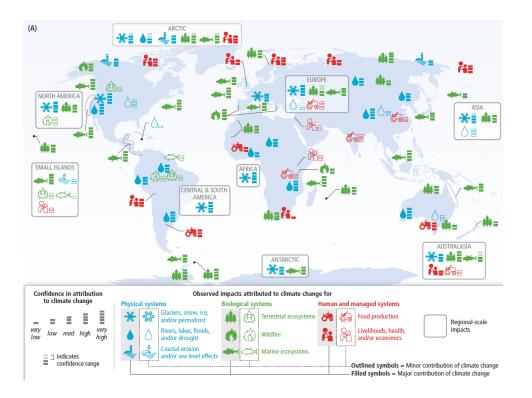
Income	% of all HH	% Exposed
(Rs. /	(Greater	to floods
month)	Mumbai)	
<5,000	27%	44%
>20,000	6%	1%

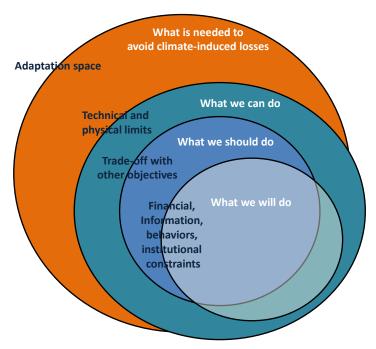
In 2005, poor households in Mumbai lost Rs. 7,700 (\$177) on average (i.e. 20% of total asset values), for an average annual income of Rs. 8,400 (\$193) and average savings of Rs. 6,900 (\$159).

Poor people are more exposed in Mumbai, they are more vulnerable and less able to cope, but their losses represent a very small share of economic aggregated losses.



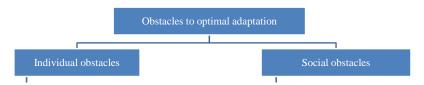




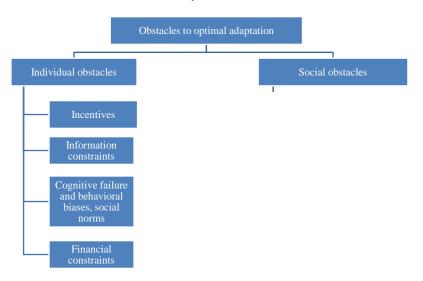


Source: Author team of chapter 17, IPCC AR5, WG2

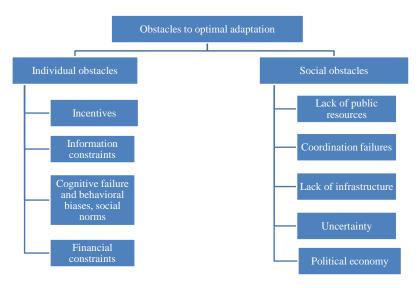
Target the obstacles to optimal adaptation



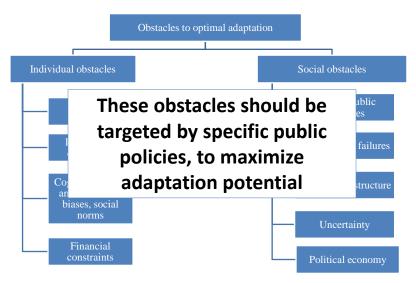
Target the obstacles to optimal adaptation



Target the obstacles to optimal adaptation



Target the obstacles to optimal adaptation





Quantified estimates of adaptation investment needed are very weak, fragile, and partial

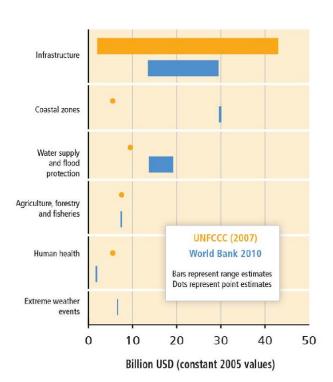
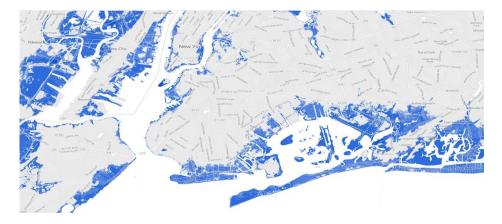


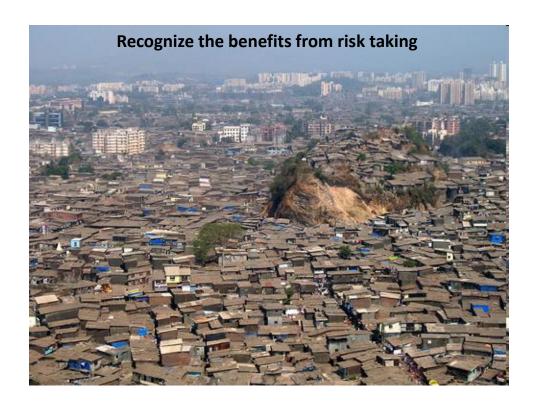
Figure WG2.17.5



Stop being the "bad guys"! Create a positive storyline: adaptation is about development



Instead of only prohibiting development in flood zone, favor development in safe places by providing transport, schools, and basic services.



Confront the political economy of adaptation

Cost-benefit asymmetry:

- Adaptation cost will be immediate, visible, and concentrated
- Resulting benefits will be remote, invisible (avoided impacts), and diffuse
- We lack indicators of adaptation "performance", to reward policy-makers

Adaptation is difficult:

- Huge role of lobbies and interest groups
- Need to buy out the losers (even when they don't deserve it)
- Need for strong leadership



Focus on distributional aspect – who cares about aggregate losses?

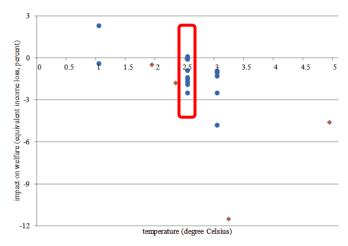


Figure WG2.10.1

