An adaptation framework for China

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To support national adaptation objections, researchers have developed an adaptation framework for China. The framework comprised by five steps: (a) adopt the latest climate change knowledge and research to assess the risk of climate change; (b) integrate development and adaptation goals; (c) identify the potential adaptation options at national, subnational and local level; (d) build up an assessment system to filter the priority adaptation; (d) implement the adaptation; (e) monitoring and evaluation.

Under the guidance of adaptation framework, we have implemented five dome projects to analyze effect of adaptation, also including the cost and benefits of these dome adaptation projects.

Demo. areas	Heilong jiang	Heihe basin, GS	Tailanhe basin, XJ	Naqu Tibet	Qinghai-Tibet Railway		
CC Risk	Cooling	Water	More water	Grassland	permafrost layer		
	dec. getting	consuming	coming now	dryer, lake	thawing by		
	dryer	increase for	and will	level rise	warming		
		oasis	decrease				
Adap.	Go benef,	Water saving	Saving water	Protect	to minimise the		
Target	avoid	& cultivat	and ecolog.	grassland	amount of heat		
	disaster		protect	ecology	absorbed		
Poten.	Structure	Low	Integrated	pasture	insulation and		
Adapt.	adjusting	consuming	water	animals	cooling systems		
		technology	management	with water			
				use			
Adp. Asse.		300 million		4 times of	1		
		m3		passture			
Demon.	700 hm2 x	20 hm2 land	10 reserv. 60	sprinkled	Project design in		
	4		hm2 land	Irrigat.12hm2	railway		

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THO.	Inv	aome	PIV	CC US	•••	uuu	pracion		China

We find that the cost of adaptation can be count by calculate the input to each parts, such as labor, Agricultural facilities, energy consumption and relative service. But the benefits of adaptation are difficult to evaluate because the effects of adaptation are non-monetary, such as saving water to improve water safety, irrigation to protect regional ecological environment.