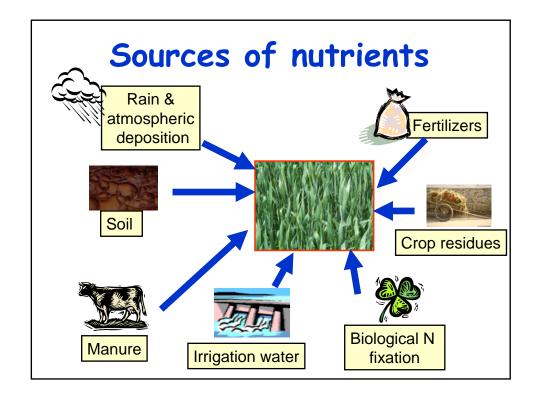
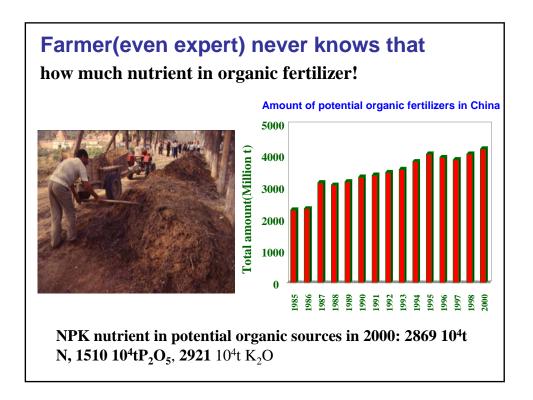
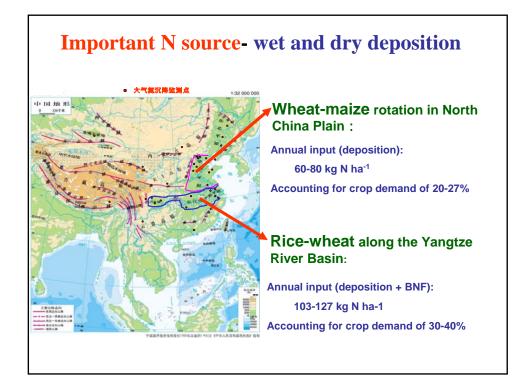


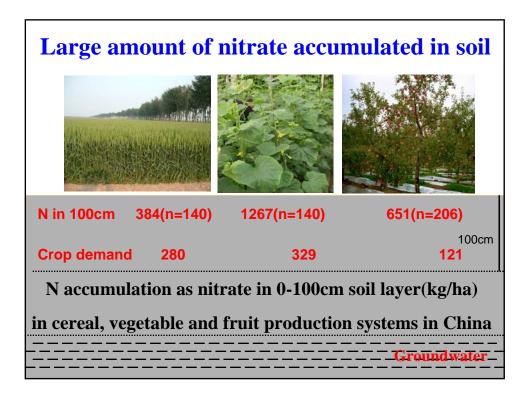
Principles:

2) Take all possible sources of nutrient into consideration!



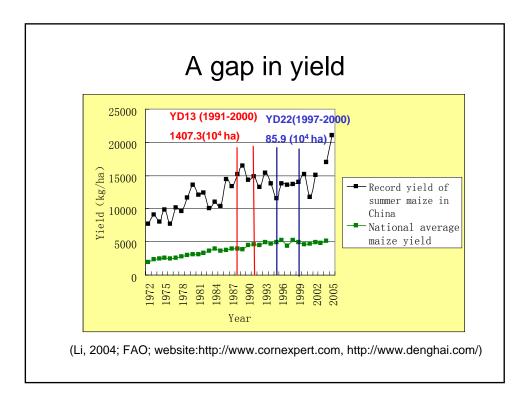


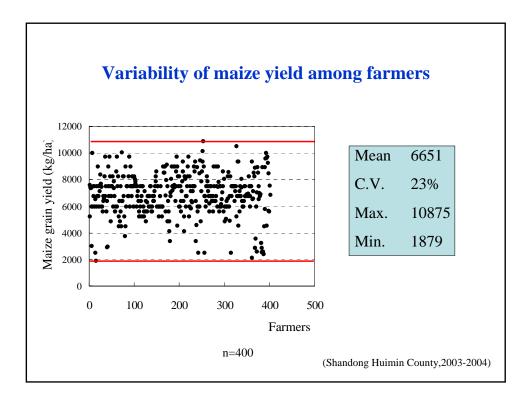


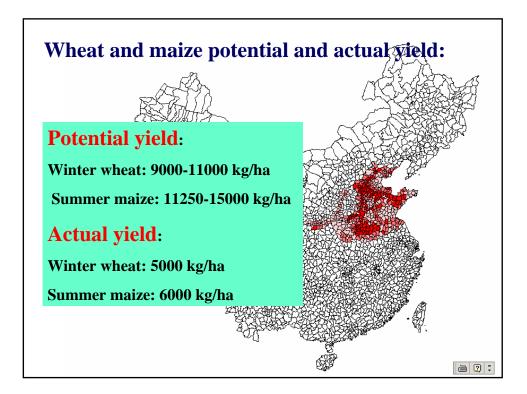


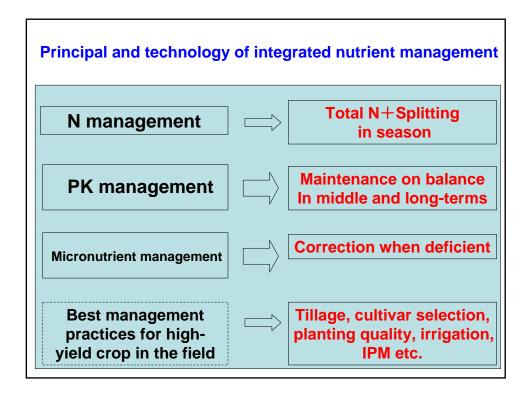
Principles:

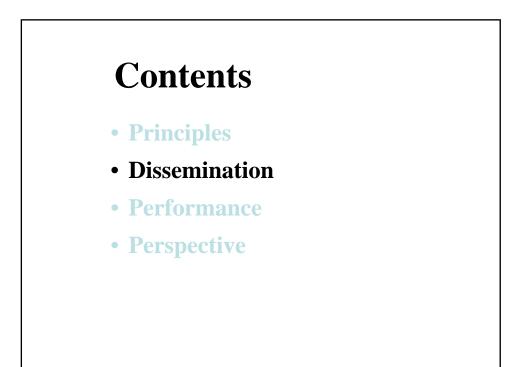
3) Take all possible improving yield and reducing nutrient loss measures into consideration!

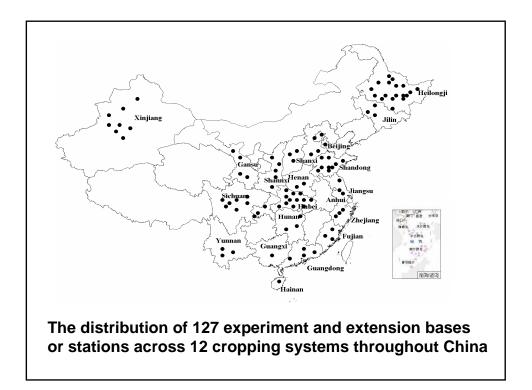














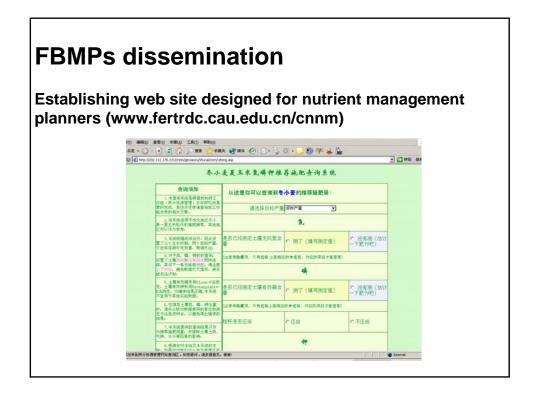
FBMPs dissemination

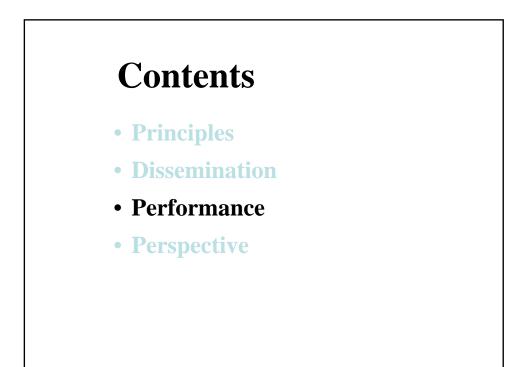
In cooperation with fertilizer companies

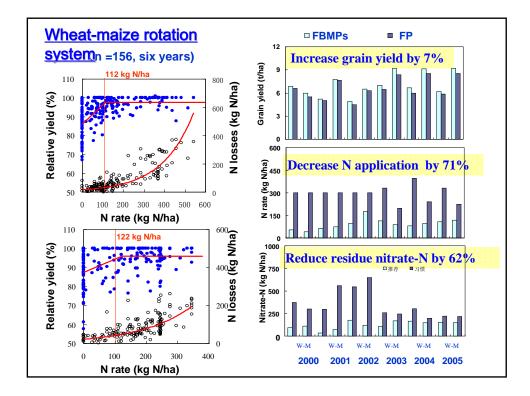
focused on developing new types of fertilizer, investigation of fertilizer market, on-farm surveys of fertilizer application, and training staffs in fertilizer industry and public extension system





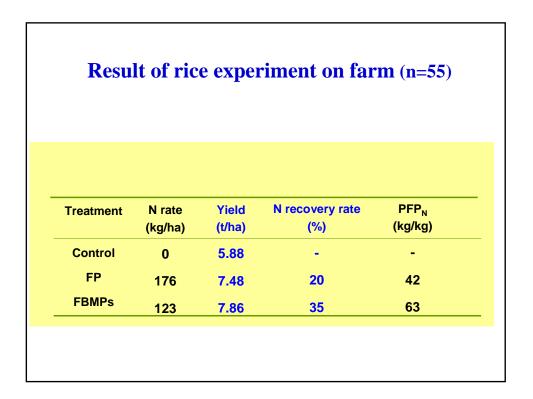


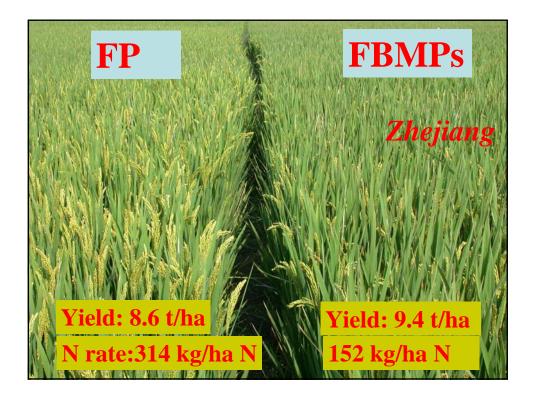


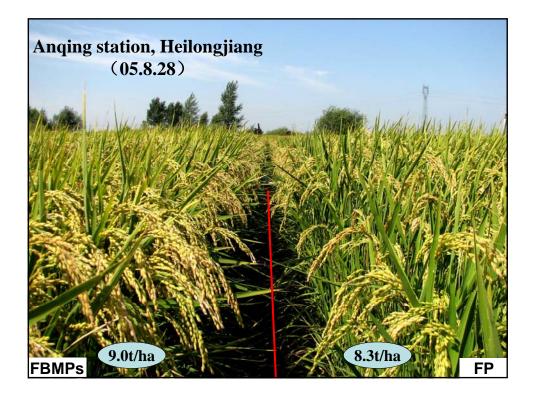


Treatment	N rate (kg/ha)	Yield (t/ha)	N recovery rate (%)	PFP _N (kg/kg)			
Control	0	5.9	-	-			
FP	356	6.8	20	20			
••		6.8	36	72			

Result of maize experiment on farm (n=189)							
Treatment	N rate	Yield	N recovery rate	PFP _N			
	(kg/ha)	(t/ha)	(%)	(kg/kg)			
Control	0	8.1	-	-			
FP	242	9.2	18	40			
FBMPs	180	9.8	25	58			

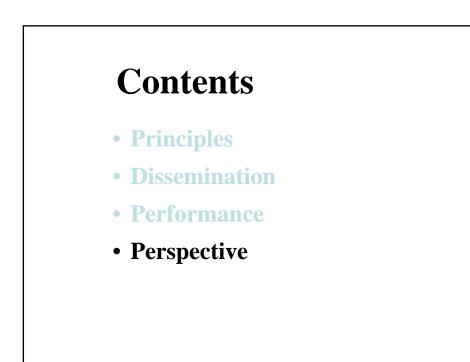




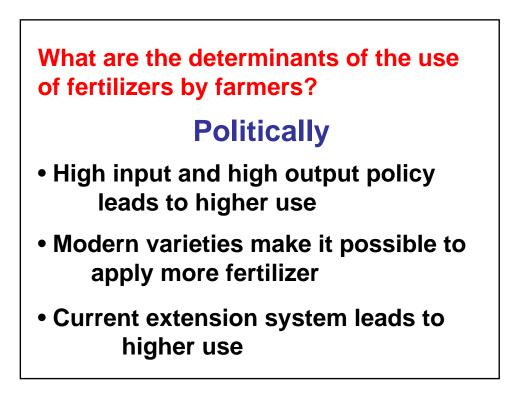


Cropping system	N saving (%)	Yield increase (%)	N recovery increase (%)	N loss decrease (%)
Wheat/Maize rotation	41-59	5-10	12-15	43-69
Rice	22-32	8-12	10-15	40-50
Vegetable	30-50	2-10	5-15	40-65
Cotton	20-30	5-8	10-15	10-30
Oilseed rape	10-30	5-30	8-15	-
Rice/wheat rotation	30-50	8-20	8-30	30-50
Intercropping	20-50	0-10	8-13	20-45
Tobacco	10-30	0-10	7-20	40-50
Apple	10-50	5-15	2-12	-

FBMP treatments on average have saved N by 20-40%, increase yields by 2-12%, increase N recovery rates by 10-15%, and decrease N losses by 10-50%



Technologically, FBMPs is a feasible solution to tackle or alleviate the problems of fertilizer overuse and misuse in cropping systems.



Perspectives

Change policies : in agriculture and fertilizer industry

-Develop and extend fertilizer saving technologies

-Train farmers

-Reform current public agricultural extension system:

•Stop the business of public agricultural extension agents

-Make new technology policy:

•Encourage the development of fertilizer-sensitive technologies

